

Ms. Amanda Armbruster  
Saginaw Bay District Office  
Michigan Department of Environmental Quality  
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Bay City, Michigan 48708

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Subject:

Annual Progress Report - December 2015 through December 2016  
RACER Trust Saginaw Malleable Industrial Land (SMI) and  
Green Point Landfill (GPL)  
Saginaw, Michigan

ENVIRONMENT

Date:

December 15, 2016

Contact:

Scott Clearwater

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810.225.1921

Email:

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Our ref:

B0064434.2016

B0050096.2016

Dear Ms. Armbruster:

This annual progress report presents a summary of the work activities conducted during the period of December 2015 through December 2016 for the RACER Saginaw Malleable Industrial Land (SMI) and Green Point Landfill (GPL) properties located in Saginaw, Michigan (Site, **Figure 1**). This progress report also provides a summary of the work activities anticipated for the next 12-month period.

### Key Correspondence

The key correspondence with the Michigan Department of Environmental Quality (MDEQ), Environmental Protection Agency (EPA), or City of Saginaw during the reporting period are as follows:

- On December 10, 2015, GHD submitted an email to MDEQ identifying a potential area to use as a compensating cut area for the work associated with installing a 1-ft cover over the former Malleable Iron Facility concrete floor slab, a portion of which is in the 100-year floodplain. MDEQ responded on December 15, 2015, indicating that, based on the data and location provided, they did not have a concern with the proposed location.
- The annual progress report for December 2014 through December 2015 was submitted to MDEQ on December 18, 2015. The annual report included a summary of the site activities completed and presented data from the October 2015 groundwater monitoring events at the Saginaw Malleable Industrial Land (SMI) and Green Point Landfill (GPL) properties [the Site].

- On January 11, 2016, Arcadis submitted to MDEQ the Draft 2015 Supplemental Resource Conservation Recovery Act (RCRA) Solid Waste Management Unit (SWMU) Investigation Summary Report). Following receipt of MDEQ comments, the Final version of the SWMU Investigation Summary Report was submitted to MDEQ on March 15, 2016.
- On January 27, 2016, Arcadis submitted to MDEQ the RCRA Facility Investigation Summary Letter.
- On February 24, 2016, GHD submitted an email to MDEQ's Water Resources permitting section regarding the National Wetlands Inventory mapping as it relates to the filling out of a Joint Permit Application. MDEQ responded on February 24, 2016, indicating that the mapping is used as a guidance tool and not for wetland determination or boundary lines.
- On February 26, 2016, GHD submitted a MDEQ/USACE Joint Permit Application for work proposed in the 100-year floodplain.
- On March 29, 2016, MDEQ submitted a letter to U.S. EPA requesting concurrence on a coordinated approval for the "Risk Based Disposal Work Plan for PCB Impacted Material (PCB Work Plan) (May 8, 2015).
- On March 29, 2016, MDEQ submitted a letter to RACER approving the PCB Work Plan.
- On April 4, 2016, U.S. EPA, in response to a GHD request to discuss the status of U.S. EPA review of the PCB Work Plan, indicated that approval of the PCB Work Plan will be subject to meeting the following conditions; sidewall confirmation sampling will be required, cover over the concrete floor will be maintained, and a notice on the deed indicating there are PCBs on-Site.
- On April 8, 2016, GHD submitted a memorandum to MDEQ summarizing the activities that were completed on-Site in 2015 relating to LNAPL.
- On April 13, 2016, GHD submitted an email response to U.S. EPA indicating that GHD/RACER would prepare a Sidewall Confirmation Sampling Plan after U.S. EPA approval of the PCB Work Plan. U.S. EPA provided a draft of the approval letter for review.
- On April 14, 2016, Arcadis submitted to MDEQ the RACER Saginaw Malleable Industrial Land Mixing Zone Five Year Review. On August 5, 2016, an email was sent from Amanda Armbruster (MDEQ) indicating that, "since the Rule 57 Final Acute Value for arsenic had not changed, we agree mixing zone numbers do not need to be re-calculated through Water Resources Division."
- On April 20, 2016, RACER submitted an email to U.S. EPA with alternatives for the cover over the I27.7 manhole area to address U.S. EPA concerns with conducting inspections on cover materials. On May 6, 2016, GHD submitted a copy of the alternative covers over the I27.7 Manhole Area to MDEQ for comment. Alternative 2 was selected as the preferred covered which included the placement of 2-ft of clay over the I27.7 Manhole Area.
- On April 22, 2016, GHD submitted an email to U.S. EPA indicating that sidewall verification sampling will be collected in accordance with the Subpart O of the PCB regulations.
- On May 2, 2016, U.S. EPA affirmed GHD's request dated April 25, 2016, with utilizing RACER's own source of local clay for the 1-foot clay cover.
- On June 13, 2016, Arcadis submitted to MDEQ the Proposed Approach and Exposure Parameters for the Future Recreational Use Scenario.
- On June 19, 2016, MDEQ executed a Water Resources Division permit for work associated with the PCB Work Plan to be completed in the 100-year floodplain.
- On June 21, 2016, GHD submitted an application for permit to develop in a floodplain to the City of Saginaw.

- On July 18, 2016, U.S. EPA submitted a letter to RACER approving the PCB Work Plan.
- On August 23, 2016, MDEQ approved Budget Amendment No. 1 to complete the following tasks:
  - o Reinstallation of 16 quench pit wells and concrete sampling to re-establish historical sampling locations.
  - o Provision for possible removal and disposal of additional polychlorinated biphenyl (PCB)-impacted concrete.
  - o Supplemental sampling (sediment, soil, surface water and groundwater) to provide current data and to address exceedances of the 2016 draft criteria.
  - o Continued comparison of data to the 2016 draft criteria and evaluation to allow for determining a potential path forward within the new criteria framework.
  - o Continued preparation of a Corrective Measures summary to obtain RCRA Corrective Action completion.
- On August 30, 2016, Arcadis submitted to MDEQ the draft RCRA Remedy Implementation and Corrective Measure Summary.
- On September 2, 2016, MDEQ provided conditional approval of GHD's proposed request emailed on August 17, 2016 to abandon and re-install monitoring wells. Additional information was provided to MDEQ by GHD on August 29, 2016. MDEQ conditions on approval included re-installation of two additional wells as well a minimum of 4 quarterly measurements, before a proposal can be made to discontinue or reduce monitoring.
- On September 6, 2016, Arcadis submitted to MDEQ the 2016 Supplemental Investigation Work Plan. The Work Plan proposed re-sampling certain locations to assess current conditions for various groundwater, surface water, sediment, and soil sample locations. MDEQ approved the Work Plan on September 22, 2016. The sampling event occurred between October 10-13, 2016.
- On September 18, 2016, as a follow up to the update calls with MDEQ and U.S. EPA, GHD submitted information (analytical data and location figures) relating to reconciling non-surveyed concrete investigation locations to surveyed concrete investigation locations and additional sampling conducted to fill in any data gaps.
- On September 23, 2016, the City of Saginaw executed a Floodplain Permit for work to be completed in the 100-year floodplain, which is associated with the PCB Work Plan.
- On September 29, 2016, GHD submitted an email to U.S. EPA and MDEQ with information (analytical data and a location figure) relating to reconciling non-surveyed soil boring investigation locations to surveyed soil boring investigation locations.
- On October 5, 2016, GHD submitted an email to U.S. EPA and MDEQ with concrete/brick sampling investigation results for the kiln area.
- On October 17, 2016, GHD submitted an email to MDEQ with updated results from the on-going investigation of the kiln area.
- On October 24, 2016, MDEQ approved Budget Modification No. 1 to redistribute already approved budget to allow for additional areas and volumes requiring removal and disposal of PCB- impacted flooring and restoration.
- On October 26, 2016, the Dioxin Summary Letter - Draft was submitted to MDEQ for review. The letter identified and summarized historical samples collected at the Site that were analyzed for dioxins and furans, and put those results in context to the regional dioxin contamination situation.

- On November 3, 2016, MDEQ executed a Water Resources Division permit for work to be completed in the 100-year floodplain at the RACER Nodular Industrial Land site, which is the source of clay for the 1-foot cover for residual PCB impacts in the former concrete slab.
- On November 10, 2016, MDEQ approved Budget Modification No. 2 to redistribute already approved budget to provide for the collection and analysis of additional supplemental soil sample and analysis, completion of initial aquatic screening level evaluation, and additional meeting with the MDEQ.
- On December 14, 2016, RACER submitted the final, signed 2017 Budget Request to MDEQ, which covered potential activities for 2017.

### **Conference Call/Meetings**

- On February 1, 2016, Arcadis and RACER had a call with MDEQ to discuss the Declaration of Restrictive Covenants (DRCs) for the Site. MDEQ requested the data be re-evaluated for surficial metals using current criteria (2013) and use the proposed U.S. EPA criteria of 300 milligrams/kilogram (mg/kg) for lead.
- On July 27, 2016, GHD, RACER, JSS, and MDEQ met on-Site at RACER's Nodular Industrial Land site in Saginaw, Michigan to discuss permit requirements associated with removing clay to be used for the 1-foot cover of residual PCB impacts in the concrete slab at the Site.
- On August 4, 2016, RACER, Arcadis, GHD, and MDEQ met to review progress of Site activities. Initial comments pertaining to the proposed recreational scenarios were provided by MDEQ.
- On September 7, 2016, RACER, Arcadis, GHD, and MDEQ conducted a follow up progress meeting. Agenda items included: PCB concrete and I27.7 Area work update, Bay City Completion Report, Declaration of Restrictive Covenants, recreational exposure evaluation update / 2016 proposed criteria and calculated recreational criteria comparison and data review, supplemental sampling work plan updates, well abandonment/replacement, review of 2017 Scope of Work outlines, and the Summary of the RCRA Corrective Measures documentation letter.
- On September 13, 2016, RACER, GHD, and U.S. EPA had a conference call to discuss the status of PCB work at the Site.
- On October 7, 2016, RACER, Arcadis, and MDEQ conducted a follow-up meeting to review the recreational use scenario and development of draft exposure parameters.
- On November, 15 2016, a conference call meeting was held between RACER MDEQ, GHD, and Arcadis to review potential 2017 scope of work and proposed budgets.

### **Site Activities**

#### **Supplemental Investigation Activities at SMI and GPL**

Based on the review of historical data and the review of the proposed 2016 MDEQ cleanup criteria, there may be potential data gaps in the previously collected data. Additionally, a pending property transaction will allow for recreational use of the property. Therefore, groundwater, surface water, soil, and sediment samples were collected at the Site in accordance to the approved work plan submitted to the MDEQ on September 6, 2016 and approved on September 22, 2016. Sampling was completed by Arcadis between October 10-13, 2016. At the time this report was published, the data was under review. A full evaluation will be submitted under a follow up report during the 1st quarter of 2017.



**SMI**

- On September 26 through September 30, 2016 the annual OM&M groundwater monitoring event took place in accordance with the approved RAP and previous annual report recommendations. Prior to sampling on September 26-27, the wells were gauged with an electronic water level indicator, graduated at 0.01-foot increments, to measure static groundwater elevations, which are provided in **Table 1**. Groundwater elevations are consistent with groundwater elevations observed in the past, since demolition of the plant building (**Figure 2**). Site-wide gauging shows the average groundwater elevation in 2011 was 582.36 and the average in 2016 is 582.78, showing the average groundwater elevation is stable. Elevation from the slab area could not be collected during this annual event due to decommissioning of wells related to the PCB-impacted concrete and soil removal and preparations for clay cap. Groundwater generally flows east towards the Saginaw River.
- Groundwater samples were collected between September 29 and 30, 2016, from 11 wells (MW-107WT, MW-108WT, MW-110WTR, MW-111WT, MW-114WT, MW-149WT, MW-185WT, MW-186WT, MW-107S1, MW-108S2, and MW-114S2) located in the river berm area in the Saginaw Malleable Iron (SMI) Plant Property. Well construction summary, sampling parameters, and field parameters at the time of sampling the SMI monitoring wells are included in **Attachment 1**. The results from the sampling are summarized in **Table 2** and as follows:
  - o Individual total Aroclors were detected in only one of the five locations (MW-110WTR, MW-111WT, MW-114WT, MW-186WT, and MW-186WT) that were analyzed for polychlorinated biphenyls (PCBs) in 2016. There was a detection of total PCBs at MW-111WT of 0.21 µg/L, which is above the MDEQ GSI criteria of 0.2 µg/L. These results are similar to historic results.
  - o Individual dissolved Aroclors were not detected at any of the five locations (MW-110WTR, MW-111WT, MW-114WT, MW-186WT, and MW-186WT) that were analyzed for PCBs in 2016. These results are similar to 2015 results.
  - o Arsenic was detected in MW-107WT and MW-149WT at values of 6.5 µg/L and 50 µg/L (duplicate sample result of 52 µg/L), respectively. MW-107WT and MW-149WT are designated as perimeter GSI monitoring wells. The concentration is above the MDEQ groundwater surface interface (GSI) criteria of 10 µg/L at MW-149WT, but significantly below the 680 µg/L GSI mixing zone concentration established for venting groundwater under the conditionally approved Remedial Action Plan (RAP) and based on the 5 Year Mixing Zone Review renewal approved on August 5, 2016.
  - o Manganese was detected in MW-107WT, MW-108WT, MW-110WTR, MW-114WT, MW-185WT, and MW-186WT. Concentrations are below the MDEQ GSI criteria of 6,203 µg/L.
  - o MDEQ has previously evaluated a mixing zone application submitted by GM Corp and established that there is no reasonable potential for ammonia to cause an exceedance of water quality standards. Ammonia concentrations were observed to have lower concentrations than in comparison to prior events, and concentrations are dropping in the perimeter GSI monitoring wells.
  - o Total phosphorus was detected in the groundwater samples collected from well MW-110WTR, MW-111WT, MW-149WT, and MW-186WT, none of the results were above the MDEQ GSI criteria of 1,000 µg/L during the 2016 sampling event. Historic sampling has indicated concentrations ranging from non-detect to 2,200 µg/L in the last five years, but have shown to be decreasing in samples collected during the 2016 sampling event.

- o The sample collected from MW-108WT was analyzed for semi-volatile organic compounds (SVOCs). There were no SVOCs detected above MDEQ criteria.
- Inspection of the two SMI Type III Landfills, River Berm Area, SMI Plant and Former Railyard Area were all conducted on September 27, 2016. No issues resulting in recommended follow-up were noted. The inspection forms are in **Attachment 6**.

The following items were tasks completed by GHD during 2016.

- Conducted quarterly monitoring well and manhole gauging for the presence of LNAPL in the Quench Pit and Southwest Plant LNAPL area (12/4/2015, 3/15/2016, 6/17/2016, 9/22/2016). The gauging identified no measurable LNAPL in the Southwest Plant LNAPL areas. In addition, no LNAPL was identified at the ground surface or in the stormwater pond (see **Attachment 2** for a complete Summary of the LNAPL activities). Approximately 2.9 gallons of oil were recovered through bailing from the Quench Pit wells during this period.
- Active recovery of LNAPL was conducted at QPTW-10 between December 1, 2015 and January 7, 2016 at which point the system was stopped due to a lack of LNAPL. The active recovery system included an on-demand LNAPL skimmer pump that recovered approximately 2.3 gallons during the time it operated this period.
- Conducted transmissivity testing on monitoring wells QPTW-01, QPTW-3R, QPTW-4, QPTW-5, and QPTW 10, which had sufficient LNAPL to conduct a transmissivity test. The results of the transmissivity testing indicated that all locations were less than 0.5 ft<sup>2</sup>/day (MDEQ minimum recoverability criterion)
- Starting in the last quarterly event of 2015, additional shallow monitoring wells were added to the gauging program to evaluate whether the water table has stabilized since the demolition of the plant. Three rounds of water levels were collected (Dec. 4, 2015, June 28, 2016, September 27/28, 2016, and December 7, 2016).
- Abandoned a total of 23 monitoring wells that were located near or on the former Malleable Facility concrete floor slab (including all the Quench Pit monitoring wells) on September 23 and 27, 2016, in preparation for the installation of a 1-foot clay cover over the former Malleable concrete floor slab. Following installation of the 1-foot clay cover over the concrete floor slab, nine of the Quench Pit monitoring wells will be re-installed.
- Obtained necessary permits/approvals and secured contractor through competitive bid process to conduct PCB-impacted material removal.
- Removed and disposed of 233 tons of TSCA soil, removed and disposed of 898 tons of TSCA concrete/brick, and removed and disposed of approximately 1,005 tons of non-TSCA concrete/brick.

### **Green Point Landfill**

- On April 28, 2016, a routine maintenance activity occurred to fill and patch a couple small animal burrows or holes that had been observed. Additionally, several young tree saplings were identified and removed. Inspections will continue to ensure trees don't take root.
- The annual OM&M groundwater sampling took place between September 27 and 28, 2016. Twelve of the fourteen wells included in the annual GPL groundwater monitoring program were sampled. Prior to sampling on September 26-27, the wells were gauged with an electronic water level indicator,

graduated at 0.01-foot increments, to measure static groundwater elevations, which are provided in **Table 1**. Wells sampled included MW-117S1, MW-117WT, MW-118S1, MW-118WT, MW-183WT, TWW-1, X-4CAUGR, X-4D, X-9AR, X-9BR, X-9CAUG, and X-9D. Well X-10BR was determined to be abandoned after the 2015 sampling event. Well X-4AR was observed to have a measurable amount of water during the monitoring event, but using ultra low flow sampling procedures the well went dry and did not recharge to allow for collection of a sample. The monitoring well sampling plan and well construction summary, sampling parameters, and field parameters at the time of sampling for Green Point wells are included in **Attachment 3**. The results from the sampling are summarized in **Table 2** and as follows:

- o Barium, arsenic, iron, manganese, selenium and sodium were detected at a concentration below their GSI criterion, in samples collected from monitoring wells MW-183WT, X-4CAUGR, X-4D, X-9AR, X-9BR, X-9CAUG, and X-9D adjacent to the Saginaw River.
  - o Concentrations of total ammonia in perimeter GSI monitoring wells X-9AR, X-9CAUG, and X-9BR have varied considerably since 1995. Since submittal of the RAP concentrations have continued to fluctuate within historical ranges, but 2016 concentrations are lower than 2015 concentrations. MDEQ has previously evaluated a mixing zone application submitted by GM and Waste Management and established that there is no reasonable potential for ammonia to cause an exceedance of water quality standards. Concentrations will continue to be monitored.
  - o Total dissolved solids (TDS) concentrations were similar to prior years. Monitoring wells MW-117WT and X-9D are perimeter wells used for evaluating GSI impacts and exceed the 2,200,000 µg/L background screening level concentration established for TDS in the conditionally-approved RAP.
- One well located in the south-west portion of the GPL property (TWW-1) was sampled on September 27, 2016. This well is included in the annual monitoring program due to the historical discharge of volatile organic compounds to the subsurface from the neighboring property to the west through a drainage pipe. 1,2,4-trichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, and cis-1,2-dichloroethene (cis-1,2-DCE) were detected above the laboratory detection limits, however the detections are below the GSI criteria. Vinyl chloride was detected at a concentration of 140 µg/L, which exceeds the GSI criteria of 13 µg/L. This vinyl chloride concentration is higher than the concentrations detected during the September 2015 sampling event, but below the September 2013 and September 2014 sampling events. Since 1997, there appears to be a decreasing trend. As previously mentioned in the 2013 annual report, a portion of a drain pipe was removed and the remaining in-place ends sealed to eliminate a migration pathway for VOCs from the adjacent property.
- Analytical data packages for the SMI and GPL September 2016 groundwater sampling events are provided in **Attachment 4**. Ultra-low flow groundwater sampling logs are provided in **Attachment 5**.
- A GPL Cap inspection was completed on September 27, 2016. The cap was found to be in sound condition. In 2016 small saplings, weeds, and a small animal burrows were observed and an extra spring visit occurred in order to remedy these items. No erosion gullies or other cap issues were found requiring maintenance. No tree saplings or other deep rooting vegetation were observed on the landfill during the inspection. There were holes in the perimeter fence noted near MW-122WT and MW-125WT. The inspection forms are in **Attachment 6**.

### Recommendations

- It is recommended that well X-4AR be removed from the sampling list and replaced with X-4CAUGR due to X-4AR consistently being dry.
- Based on the review of groundwater elevation table there are wells and staff gauges for which surveyed elevations are apparently not available. It is recommended that surveying the monitoring wells and staff gauges for which elevation information is not available be completed during the 2017 sampling event. These wells consist of; X-4CAUGR, X-4D, X-9D, MW-186WT, RG1, RW-1, SG1 (nearshore), SG1 (offshore), TW-241, and TW-242, which are part of the long-term monitoring program.

### Anticipated Site Activities

The following activities may be completed during the period from January 2017 through December 2017:

- Complete annual groundwater monitoring per the currently approved plan wells at SMI and Green Point landfill using ultra-low-flow procedures. Sampling is expected to take place during the 3rd quarter 2017.
- Complete the risk based data evaluation to proceed with a non-residential/passive recreational land use Site closure.
- Record Declaration of Restrictive Covenants for SMI and GPL.
- Respond to other information requests from MDEQ.

The following items are tasks that may be completed by GHD during 2017:

- Install 1-ft clay cover over Malleable concrete floor slab.
- Re-install 9 monitoring wells in the Quench Pit Area and conduct transmissivity testing, if appropriate, to evaluate whether LNAPL recovery is prudent.
- Prepare Completion Report for the PCB Work Plan.
- On-going quarterly inspections/monitoring associated with the LNAPL areas.

Please contact me at 810-225-1921 if you have any questions regarding the enclosed report or its attachments.

Sincerely,

Arcadis of Michigan, LLC



Scott Clearwater  
Certified Project Manager

December 15, 2016

**Copies:**

John Fordell Leone, Department of Attorney General  
Jean Greensley, U.S. EPA  
Brad Norton, Waste Management  
Grant Trigger, RACER Trust  
David Favero, RACER Trust  
Michael Tomka, GHD  
John-Eric Pardys, GHD

**Enclosures:**

**Tables**

- 1 Summary of Water Elevation Table
- 2 Analytical Data Summary Table

**Figures**

- 1 Site Location Map
- 2 Site-Wide Water Table Elevation Contour Map – September 2016

**Attachments**

- 1 SMI Well Construction Logs, Sampling Parameters, and Field Parameters
- 2 GHD Summary of LNAPL Activities at Malleable Iron Industrial Land
- 3 Green Point Landfill Well Construction Logs, Sampling Parameters, and Field Parameters
- 4 Laboratory Analytical Reports
- 5 Field Sampling Logs
- 6 SMI and Green Point Landfill Site Inspection Forms

# TABLES





Table 1  
Site-Wide Water Level Measurements, September 26 and 27, 2016  
Saginaw, Michigan  
RACER Trust



| Location                                                     | Reference Elevation (feet AMSL) | 9/20-21/2011 Depth to Water (feet) | Groundwater Elevation (feet AMSL) | 9/11/2012 Depth to Water (feet) | Groundwater Elevation (feet AMSL) | 9/23/2013 Depth to Water (feet) | Groundwater Elevation (feet AMSL) | 9/17-18/2014 Depth to Water (feet) | Groundwater Elevation (feet AMSL) | 9/28-29/2015 Depth to Water (feet) | Groundwater Elevation (feet AMSL) | 9/20-21/2016 Depth to Water (feet) | Groundwater Elevation (feet AMSL) | Site Area (GPL or SMI) |
|--------------------------------------------------------------|---------------------------------|------------------------------------|-----------------------------------|---------------------------------|-----------------------------------|---------------------------------|-----------------------------------|------------------------------------|-----------------------------------|------------------------------------|-----------------------------------|------------------------------------|-----------------------------------|------------------------|
| Sampled Monitoring Wells (Green Point Landfill)              |                                 |                                    |                                   |                                 |                                   |                                 |                                   |                                    |                                   |                                    |                                   |                                    |                                   |                        |
| MW-117WT                                                     | 582.37                          | 2.43                               | 579.94                            | 2.42                            | 579.95                            | 2.86                            | 579.51                            | 1.30                               | 581.07                            | 1.72                               | 580.65                            | 1.60                               | 580.77                            | GPL                    |
| MW-117S1                                                     | 583.70                          | 2.69                               | 581.01                            | 2.86                            | 580.84                            | 3.24                            | 580.46                            | 1.50                               | 582.20                            | 2.24                               | 581.46                            | 1.97                               | 581.73                            | GPL                    |
| MW-118WT                                                     | 582.98                          | 3.41                               | 579.57                            | 3.21                            | 579.77                            | 3.75                            | 579.23                            | 2.42                               | 580.56                            | 2.76                               | 580.22                            | 2.75                               | 580.23                            | GPL                    |
| MW-118S1                                                     | 583.28                          | 2.39                               | 580.89                            | 2.53                            | 580.75                            | 2.92                            | 580.36                            | 1.15                               | 582.13                            | 1.77                               | 581.51                            | 1.70                               | 581.58                            | GPL                    |
| MW-183WT                                                     | 588.77                          | 10.58                              | 578.19                            | 11.19                           | 577.58                            | 10.38                           | 578.39                            | 8.26                               | 580.51                            | 8.48                               | 580.29                            | 8.61                               | 580.16                            | GPL                    |
| X-4AR                                                        | NA                              | 7.25                               | NA                                | dry                             | dry                               | 5.93                            | NA                                | 7.14                               | NA                                | 6.65                               | NA                                | 6.41                               | NA                                | GPL                    |
| X-4CAUGR                                                     | NA                              | 7.60                               | NA                                | 8.66                            | NA                                | 7.91                            | NA                                | 9.17                               | NA                                | 5.48                               | NA                                | 6.30                               | NA                                | GPL                    |
| X-4D                                                         | NA                              | 3.64                               | NA                                | 4.11                            | NA                                | 3.95                            | NA                                | 2.71                               | NA                                | 2.72                               | NA                                | 2.98                               | NA                                | GPL                    |
| X-9AR                                                        | 586.95                          | 8.95                               | 578.00                            | 10.03                           | 576.92                            | 9.25                            | 577.70                            | 7.34                               | 579.61                            | 7.98                               | 578.97                            | 7.92                               | 579.03                            | GPL                    |
| X-9BR                                                        | 586.85                          | 9.21                               | 577.64                            | 10.27                           | 576.58                            | 9.48                            | 577.37                            | 7.69                               | 579.16                            | 6.98                               | 579.87                            | 7.90                               | 578.95                            | GPL                    |
| X-9CAUG                                                      | 586.62                          | 9.59                               | 577.03                            | 10.48                           | 576.14                            | 10.25                           | 576.37                            | 7.79                               | 578.83                            | 6.76                               | 579.86                            | 7.64                               | 578.98                            | GPL                    |
| X-9D                                                         | NA                              | 4.73                               | NA                                | 5.15                            | NA                                | 4.96                            | NA                                | 3.71                               | NA                                | 3.79                               | NA                                | 4.05                               | NA                                | GPL                    |
| X-10BR                                                       | 592.67                          | 11.63                              | 581.04                            | 11.82                           | 580.85                            | 12.21                           | 580.46                            | NA                                 | NA                                | NA                                 | NA                                | NA                                 | NA                                | GPL                    |
| TWW-1                                                        | 587.31                          | 6.31                               | 581.00                            | 5.79                            | 581.52                            | 7.44                            | 579.87                            | 4.82                               | 582.49                            | 6.11                               | 581.20                            | 6.68                               | 580.63                            | GPL                    |
| Sampled Monitoring Wells (Saginaw Malleable Iron Plant Area) |                                 |                                    |                                   |                                 |                                   |                                 |                                   |                                    |                                   |                                    |                                   |                                    |                                   |                        |
| MW-107WT                                                     | 590.65                          | 10.34                              | 580.31                            | 10.12                           | 580.53                            | 10.89                           | 579.76                            | 9.71                               | 580.94                            | 9.93                               | 580.72                            | 9.98                               | 580.67                            | SMI                    |
| MW-107S1                                                     | 590.74                          | 12.67                              | 578.07                            | 13.94                           | 576.80                            | 12.97                           | 577.77                            | 11.04                              | 579.70                            | 11.22                              | 579.52                            | 11.50                              | 579.24                            | SMI                    |
| MW-108WT                                                     | 590.53                          | dry                                | dry                               | dry                             | dry                               | dry                             | dry                               | 10.06                              | 580.47                            | 10.16                              | 580.37                            | 9.82                               | 580.71                            | SMI                    |
| MW-108S1                                                     | 590.24                          | 12.19                              | 578.05                            | 13.31                           | 576.93                            | 13.14                           | 577.10                            | 9.85                               | 580.39                            | 9.95                               | 580.29                            | 9.64                               | 580.60                            | SMI                    |
| MW-110WTR                                                    | 591.52                          | 13.97                              | 577.55                            | dry                             | dry                               | dry                             | dry                               | 12.37                              | 579.15                            | 11.17                              | 580.35                            | 12.19                              | 579.33                            | SMI                    |
| MW-111WT                                                     | 590.95                          | 12.06                              | 578.89                            | 11.48                           | 579.47                            | 10.61                           | 580.34                            | 8.88                               | 582.07                            | 9.09                               | 581.86                            | 8.79                               | 582.16                            | SMI                    |
| MW-114WT                                                     | 591.12                          | 10.71                              | 580.41                            | 10.58                           | 580.54                            | 8.78                            | 582.34                            | 7.69                               | 583.43                            | 8.76                               | 582.36                            | 7.70                               | 583.42                            | SMI                    |
| MW-114S2                                                     | 591.20                          | 12.43                              | 578.77                            | 13.61                           | 577.59                            | 12.61                           | 578.59                            | 11.11                              | 580.09                            | 10.97                              | 580.23                            | 10.24                              | 580.96                            | SMI                    |
| MW-149WT                                                     | 592.27                          | 14.09                              | 578.18                            | 15.08                           | 577.19                            | 13.94                           | 578.33                            | 11.68                              | 580.59                            | 11.94                              | 580.33                            | 11.83                              | 580.44                            | SMI                    |
| MW-185WT                                                     | 588.67                          | 10.36                              | 578.31                            | 7.31                            | 581.36                            | 6.81                            | 581.86                            | 5.89                               | 582.78                            | 6.34                               | 582.33                            | 5.89                               | 582.78                            | SMI                    |
| MW-186WT                                                     | NA                              | 10.82                              | NA                                | 11.91                           | NA                                | 10.89                           | NA                                | 8.87                               | NA                                | 9.25                               | NA                                | 9.40                               | NA                                | SMI                    |
| Gauging Only Monitoring Wells                                |                                 |                                    |                                   |                                 |                                   |                                 |                                   |                                    |                                   |                                    |                                   |                                    |                                   |                        |
| B-3R                                                         | 609.51                          | 13.51                              | 596.00                            | 8.45                            | 601.06                            | 9.16                            | 600.35                            | 7.58                               | 601.93                            | 8.53                               | 600.98                            | 8.45                               | 601.06                            | SMI                    |
| B-3BAUG                                                      | 596.54                          | 13.96                              | 582.58                            | 13.98                           | 582.56                            | 14.41                           | 582.13                            | 12.99                              | 583.55                            | 13.38                              | 583.16                            | 13.31                              | 583.23                            | SMI                    |
| B-5BAUG                                                      | 594.17                          | 13.51                              | 580.66                            | 13.19                           | 580.98                            | 13.64                           | 580.53                            | 12.01                              | 582.16                            | 12.43                              | 581.74                            | 12.19                              | 581.98                            | SMI                    |
| B-5CAUG                                                      | 594.23                          | 13.22                              | 581.01                            | 13.25                           | 580.98                            | 13.70                           | 580.53                            | 12.08                              | 582.15                            | NA                                 | NA                                | 12.32                              | 581.91                            | SMI                    |
| B-5R                                                         | 594.54                          | 7.99                               | 586.55                            | 7.34                            | 587.20                            | 7.91                            | 586.63                            | 6.87                               | 587.67                            | 7.59                               | 586.95                            | 6.48                               | 588.06                            | SMI                    |
| B-7R                                                         | 591.76                          |                                    |                                   | 11.92                           | 579.84                            | NA                              | NA                                | NA                                 | NA                                | NA                                 | NA                                |                                    |                                   |                        |
| MW-103S1                                                     | 595.75                          | 12.20                              | 583.55                            | 12.91                           | 582.84                            | 12.97                           | 582.78                            | 12.00                              | 583.75                            | 13.13                              | 582.62                            | 12.22                              | 583.53                            | SMI                    |
| MW-103S2                                                     | 596.34                          | 12.74                              | 583.60                            | 15.66                           | 580.68                            | 16.18                           | 580.16                            | 14.61                              | 581.73                            | 14.48                              | 581.86                            | 14.79                              | 581.55                            | SMI                    |
| MW-103WT                                                     | 591.21                          | 15.61                              | 575.60                            | 14.98                           | 576.23                            | 15.50                           | 575.71                            | 13.91                              | 577.30                            | 14.29                              | 576.92                            | 14.11                              | 577.10                            | SMI                    |
| MW-105S1                                                     | 593.67                          | 14.98                              | 578.69                            | 12.65                           | 581.02                            | 13.11                           | 580.56                            | 11.49                              | 582.18                            | 11.90                              | 581.77                            | 11.64                              | 582.03                            | SMI                    |
| MW-105S2                                                     | 593.27                          | 12.61                              | 580.66                            | 12.25                           | 581.02                            | 12.71                           | 580.56                            | 11.10                              | 582.17                            | 11.51                              | 581.76                            | 11.27                              | 582.00                            | SMI                    |
| MW-105WT                                                     | 593.35                          | 12.22                              | 581.13                            | 7.79                            | 585.56                            | 8.30                            | 585.05                            | 8.42                               | 584.93                            | 7.98                               | 585.37                            | 7.55                               | 585.80                            | SMI                    |
| MW-108S2                                                     | 590.26                          | 8.21                               | 582.05                            | 13.75                           | 576.51                            | 12.65                           | 577.61                            | 10.71                              | 579.55                            | 10.90                              | 579.36                            | 11.21                              | 579.05                            | SMI                    |
| MW-108S3                                                     | 589.98                          | 12.30                              | 577.68                            | 9.04                            | 580.94                            | 8.73                            | 581.25                            | 7.37                               | 582.61                            | 7.69                               | 582.29                            | 7.69                               | 582.29                            | SMI                    |
| MW-108S4                                                     | 590.11                          | 8.36                               | 581.75                            | 9.02                            | 581.09                            | 8.88                            | 581.23                            | 7.41                               | 582.70                            | 7.81                               | 582.30                            | 7.83                               | 582.28                            | SMI                    |
| MW-111S1                                                     | 591.14                          | 8.54                               | 582.60                            | 13.51                           | 577.63                            | 12.46                           | 578.68                            | 10.57                              | 580.57                            | 10.91                              | 580.23                            | 11.08                              | 580.06                            | SMI                    |
| MW-111S2                                                     | 591.50                          | dry                                | dry                               | 14.19                           | 577.31                            | 13.06                           | 578.44                            | 11.11                              | 580.39                            | 11.38                              | 580.12                            | 11.65                              | 579.85                            | SMI                    |
| MW-111S3                                                     | 591.35                          | 12.56                              | 578.79                            | 9.76                            | 581.59                            | 10.16                           | 581.19                            | 8.77                               | 582.58                            | 9.01                               | 582.34                            | 9.02                               | 582.33                            | SMI                    |
| MW-111S4                                                     | 591.66                          | 12.75                              | 578.91                            | 10.61                           | 581.05                            | 10.31                           | 581.35                            | 8.95                               | 582.71                            | 9.29                               | 582.37                            | 9.31                               | 582.35                            | SMI                    |
| MW-114S1                                                     | 591.13                          | 9.97                               | 581.16                            | 10.96                           | 580.17                            | 10.17                           | 580.96                            | 8.52                               | 582.61                            | 9.11                               | 582.02                            | 8.73                               | 582.40                            | SMI                    |
| MW-114S3                                                     | 591.02                          | 9.94                               | 581.08                            | 9.76                            | 581.26                            | 9.59                            | 581.43                            | 8.31                               | 582.71                            | 8.49                               | 582.53                            | 8.51                               | 582.51                            | SMI                    |
| MW-114S4                                                     | 591.14                          | 11.12                              | 580.02                            | NA-NF                           | NA                                | NA-NL                           | NA                                | CNL                                | NA                                | CNL                                | NA                                | CNL                                | NA                                | SMI                    |
| MW-122WT                                                     | 584.97                          | 9.28                               | 575.69                            | NA-NF                           | NA                                | NA-NL                           | NA                                | CNL                                | NA                                | CNL                                | NA                                | CNL                                | NA                                | GPL                    |
| MW-122S1                                                     | 584.97                          | NA-NF                              | NA                                | NA-NF                           | NA                                | NA-NL                           | NA                                | CNL                                | NA                                | CNL                                | NA                                | CNL                                | NA                                | GPL                    |

Table 1  
Site-Wide Water Level Measurements, September 26 and 27, 2016  
Saginaw, Michigan  
RACER Trust



| Location                                | Reference Elevation (feet AMSL) | 9/20-21/2011 Depth to Water (feet) | Groundwater Elevation (feet AMSL) | 9/11/2012 Depth to Water (feet) | Groundwater Elevation (feet AMSL) | 9/23/2013 Depth to Water (feet) | Groundwater Elevation (feet AMSL) | 9/17-18/2014 Depth to Water (feet) | Groundwater Elevation (feet AMSL) | 9/28-29/2015 Depth to Water (feet) | Groundwater Elevation (feet AMSL) | 9/20-21/2016 Depth to Water (feet) | Groundwater Elevation (feet AMSL) | Site Area (GPL or SMI) |
|-----------------------------------------|---------------------------------|------------------------------------|-----------------------------------|---------------------------------|-----------------------------------|---------------------------------|-----------------------------------|------------------------------------|-----------------------------------|------------------------------------|-----------------------------------|------------------------------------|-----------------------------------|------------------------|
| MW-122S2                                | 585.13                          | NA                                 | NA                                | NA-NF                           | NA                                | NA-NL                           | NA                                | CNL                                | NA                                | CNL                                | NA                                | CNL                                | NA                                | GPL                    |
| MW-123WT                                | 584.53                          | 4.74                               | 579.79                            | NA-NF                           | NA                                | NA-NL                           | NA                                | CNL                                | NA                                | CNL                                | NA                                | CNL                                | NA                                | GPL                    |
| MW-123S1                                | 584.58                          | NA                                 | NA                                | NA-NF                           | NA                                | NA-NL                           | NA                                | CNL                                | NA                                | CNL                                | NA                                | CNL                                | NA                                | GPL                    |
| MW-124WT                                | 585.94                          | 4.74                               | 581.20                            | NA-NF                           | NA                                | NA-NL                           | NA                                | CNL                                | NA                                | CNL                                | NA                                | CNL                                | NA                                | GPL                    |
| MW-124S1                                | 586.41                          | 5.07                               | 581.34                            | NA-NF                           | NA                                | NA-NL                           | NA                                | CNL                                | NA                                | CNL                                | NA                                | CNL                                | NA                                | GPL                    |
| MW-125WT                                | 586.98                          | 5.73                               | 581.25                            | NA-NF                           | NA                                | 6.77                            | 580.21                            | 4.91                               | 582.07                            | 5.83                               | 581.15                            | 6.28                               | 580.70                            | GPL                    |
| MW-128S1                                | 594.99                          | NA - WASPS                         | NA                                | NA - WASPS                      | NA                                | 13.93                           | 581.06                            | 12.40                              | 582.59                            | 13.04                              | 581.95                            | 13.10                              | 581.89                            | GPL                    |
| MW-128WT                                | 594.96                          | NA - WASPS                         | NA                                | NA - WASPS                      | NA                                | 12.11                           | 582.85                            | 11.55                              | 583.41                            | 11.69                              | 583.27                            | 11.74                              | 583.22                            | GPL                    |
| MW-129WT                                | 587.38                          | NA-NF                              | NA                                | NA-NF                           | NA                                | NA-NL                           | NA                                | 2.92                               | 584.46                            | NA                                 | NA                                | CNL                                | NA                                | GPL                    |
| MW-131WT                                | 592.56                          | 7.48                               | 585.08                            | 6.28                            | 586.28                            | 6.09                            | 586.47                            | 4.71                               | 587.85                            | 5.27                               | 587.29                            | 5.13                               | 587.43                            | SMI                    |
| MW-131S1                                | 592.75                          | 11.41                              | 581.34                            | 11.51                           | 581.24                            | 11.93                           | 580.82                            | 10.26                              | 582.49                            | 10.71                              | 582.04                            | 10.59                              | 582.16                            | SMI                    |
| MW-131S2                                | 592.39                          | 11.08                              | 581.31                            | 11.18                           | 581.21                            | 11.59                           | 580.80                            | 9.84                               | 582.55                            | 10.39                              | 582.00                            | 10.27                              | 582.12                            | SMI                    |
| Gauging Only Monitoring Wells Continued |                                 |                                    |                                   |                                 |                                   |                                 |                                   |                                    |                                   |                                    |                                   |                                    |                                   |                        |
| MW-134WT                                | 594.02                          | 7.28                               | 586.74                            | 6.89                            | 587.13                            | 7.34                            | 586.68                            | 6.31                               | 587.71                            | 7.13                               | 586.89                            | 6.60                               | 587.42                            | SMI                    |
| MW-134S1                                | 593.31                          | NA                                 | NA                                | NA                              | NA                                | 12.59                           | 580.72                            | 10.99                              | 582.32                            | 11.38                              | 581.93                            | 11.24                              | 582.07                            | SMI                    |
| MW-134S2                                | 593.14                          | NA                                 | NA                                | NA                              | NA                                | 12.47                           | 580.67                            | 10.87                              | 582.27                            | 11.25                              | 581.89                            | 11.18                              | 581.96                            | SMI                    |
| MW-137WT                                | 595.91                          | 7.28                               | 588.63                            | 5.34                            | 590.57                            | 7.03                            | 588.88                            | 5.19                               | 590.72                            | 5.46                               | 590.45                            | 5.49                               | 590.42                            | SMI                    |
| MW-138WT                                | 602.39                          | 6.06                               | 596.33                            | 4.28                            | 598.11                            | 6.40                            | 595.99                            | 4.51                               | 597.88                            | 4.42                               | 597.97                            | 5.64                               | 596.75                            | SMI                    |
| MW-140WT                                | 595.90                          | 5.96                               | 589.94                            | 10.13                           | 585.77                            | 11.18                           | 584.72                            | 9.90                               | 586.00                            | 10.88                              | 585.02                            | 9.99                               | 585.91                            | SMI                    |
| MW-140S1                                | 595.33                          | 10.88                              | 584.45                            | 14.43                           | 580.90                            | 14.90                           | 580.43                            | 13.31                              | 582.02                            | 13.70                              | 581.63                            | 13.52                              | 581.81                            | SMI                    |
| MW-140S2                                | 595.80                          | 14.41                              | 581.39                            | NA                              | NA                                | 15.44                           | 580.36                            | 13.84                              | 581.96                            | 14.25                              | 581.55                            | 14.07                              | 581.73                            | SMI                    |
| MW-143WT                                | 596.52                          | NA                                 | NA                                | 4.25                            | 592.27                            | 21.94                           | 574.58                            | 20.25                              | 576.27                            | 21.31                              | 575.21                            | 21.14                              | 575.38                            | SMI                    |
| MW-144WT                                | 593.25                          | 7.97                               | 585.28                            | 7.87                            | 585.38                            | 8.12                            | 585.13                            | 7.45                               | 585.80                            | 7.84                               | 585.41                            | 7.75                               | 585.50                            | SMI                    |
| MW-147WT                                | 592.07                          | 3.90                               | 588.17                            | 3.18                            | 588.89                            | 4.29                            | 587.78                            | NA                                 | NA                                | NA                                 | NA                                | NA                                 | NA                                | SMI                    |
| MW-158WT                                | 591.78                          | NA-NF                              | NA                                | 3.39                            | 588.39                            | 4.29                            | 587.49                            | NA                                 | NA                                | NA                                 | NA                                | NA                                 | NA                                | SMI                    |
| MW-160WT                                | 591.53                          | NA-NF                              | NA                                | NA-NF                           | NA                                | Product <sup>1</sup>            | NA                                | NA                                 | NA                                | NA                                 | NA                                | NA                                 | NA                                | SMI                    |
| MW-168WT                                | 592.11                          | NA-NF                              | NA                                | NA-NF                           | NA                                | NA-NL                           | NA                                | CNL                                | NA                                | CNL                                | NA                                | NA                                 | NA                                | SMI                    |
| MW-169WT                                | 591.82                          | NA-NF                              | NA                                | 3.83                            | 587.99                            | 4.48                            | 587.34                            | NA                                 | NA                                | NA                                 | NA                                | NA                                 | NA                                | SMI                    |
| MW-172WT                                | 591.51                          | NA-NF                              | NA                                | NA-NF                           | NA                                | 4.13                            | 587.38                            | NA                                 | NA                                | NA                                 | NA                                | NA                                 | NA                                | SMI                    |
| MW-178WT                                | 590.35                          | 3.78                               | 586.57                            | 2.71                            | 587.64                            | 3.49                            | 586.86                            | NA                                 | NA                                | NA                                 | NA                                | NA                                 | NA                                | SMI                    |
| MW-180WT                                | 590.67                          | NA-NF                              | NA                                | 2.66                            | 588.01                            | 3.39                            | 587.28                            | NA                                 | NA                                | NA                                 | NA                                | NA                                 | NA                                | SMI                    |
| MW-2A                                   | 584.56                          | NA-NF                              | NA                                | NA-NF                           | NA                                | NA-NL                           | NA                                | 3.04                               | 581.52                            | dry                                | NA                                | 4.11                               | 580.45                            | GPL                    |
| MW-2B                                   | 584.56                          | NA-NF                              | NA                                | NA-NF                           | NA                                | NA-NL                           | NA                                | 2.46                               | 582.10                            | 2.99                               | 581.57                            | 2.89                               | 581.67                            | GPL                    |
| MW-2CAUG                                | 585.15                          | NA-NF                              | NA                                | NA-NF                           | NA                                | NA-NL                           | NA                                | DRY                                | NA                                | 3.60                               | 581.55                            | 3.45                               | 581.70                            | GPL                    |
| QPTW-01                                 | 591.95                          | 4.30                               | 587.65                            | 4.12                            | 587.83                            | Product <sup>1</sup>            | NA                                | Product <sup>4</sup>               | NA                                | Product <sup>4</sup>               | NA                                | Abandoned                          | NA                                | SMI                    |
| QPTW-02                                 | 592.35                          | 3.26                               | 589.09                            | 2.90                            | 589.45                            | 3.95                            | 588.40                            | 2.36                               | 589.99                            | 3.55                               | 588.80                            | Abandoned                          | NA                                | SMI                    |
| QPTW-03 <sup>4</sup>                    | 592.13                          | NA-NF                              | NA                                | NA-NF                           | NA                                | Product <sup>1</sup>            | NA                                | NA                                 | NA                                | NA                                 | NA                                | Abandoned                          | NA                                | SMI                    |
| QPTW-04                                 | 592.00                          | 5.22                               | 586.78                            | 4.89                            | 587.11                            | Product <sup>1</sup>            | NA                                | Product <sup>4</sup>               | NA                                | Product <sup>4</sup>               | NA                                | Abandoned                          | NA                                | SMI                    |
| QPTW-05                                 | 592.13                          | 4.87                               | 587.26                            | 4.26                            | 587.87                            | Product <sup>1</sup>            | NA                                | Product <sup>4</sup>               | NA                                | Product <sup>4</sup>               | NA                                | Abandoned                          | NA                                | SMI                    |
| QPTW-10                                 | 592.15                          | NA-NF                              | NA                                | NA-NF                           | NA                                | NA-NL                           | NA                                | NA                                 | NA                                | NA                                 | NA                                | Abandoned                          | NA                                | SMI                    |
| QPTW-13                                 | 592.36                          | NA-NF                              | NA                                | NA-NF                           | NA                                | Product <sup>1</sup>            | NA                                | 3.48                               | 588.88                            | NA                                 | NA                                | Abandoned                          | NA                                | SMI                    |
| RG1                                     | NA                              | NA-NF                              | NA                                | NA-NF                           | NA                                | NA-NL                           | NA                                | CNL                                | NA                                | CNL                                | NA                                | CNL                                | NA                                | SMI                    |
| RW-1                                    | NA                              | NA-NF                              | NA                                | Vault Flooded                   | NA                                | Vault Flooded                   | NA                                | NA                                 | NA                                | NA                                 | NA                                | NA                                 | NA                                | SMI                    |
| RW-2                                    | 588.09                          | NA-NF                              | NA                                | Vault Flooded                   | NA                                | Vault Flooded                   | NA                                | NA                                 | NA                                | NA                                 | NA                                | NA                                 | NA                                | SMI                    |
| RW-3                                    | 588.40                          | NA-NF                              | NA                                | Vault Flooded                   | NA                                | Vault Flooded                   | NA                                | NA                                 | NA                                | NA                                 | NA                                | NA                                 | NA                                | SMI                    |
| SG1 (Near shore)                        | NA                              | NA-NF                              | NA                                | NA-NF                           | NA                                | NA-NL                           | NA                                | 2.03                               | NA                                | dry                                | NA                                | 1.70                               | NA                                | SMI                    |
| SG1 (Offshore)                          | NA                              | NA-NF                              | NA                                | NA-NF                           | NA                                | NA-NL                           | NA                                | 2.28                               | NA                                | 1.62                               | NA                                | 2.29                               | NA                                | SMI                    |
| TP-2                                    | 592.12                          | NA-NF                              | NA                                | 3.79                            | 588.33                            | 4.64                            | 587.48                            | NA                                 | NA                                | NA                                 | NA                                | NA                                 | NA                                | SMI                    |
| TW-241                                  | NA                              | 5.84                               | NA                                | 5.07                            | NA                                | 7.22                            | NA                                | 4.88                               | NA                                | 5.91                               | NA                                | 6.81                               | NA                                | GPL                    |
| TW-242                                  | NA                              | 6.65                               | NA                                | 6.29                            | NA                                | 8.18                            | NA                                | 5.92                               | NA                                | 7.03                               | NA                                | 7.93                               | NA                                | GPL                    |
| X-10AR2                                 | 594.67                          | 7.76                               | 586.91                            | 4.97                            | 589.70                            | 9.00                            | 585.67                            | 4.42                               | 590.25                            | 7.22                               | 587.45                            | 7.21                               | 587.46                            | GPL                    |
| X-15AR                                  | 584.61                          | NA-NF                              | NA                                | NA-NF                           | NA                                | NA-NL                           | NA                                | NA                                 | NA                                | NA                                 | NA                                | NA                                 | NA                                | GPL                    |

Table 1  
Site-Wide Water Level Measurements, September 26 and 27, 2016  
Saginaw, Michigan  
RACER Trust



| Location | Reference Elevation (feet AMSL) | 9/20-21/2011 Depth to Water (feet) | Groundwater Elevation (feet AMSL) | 9/11/2012 Depth to Water (feet) | Groundwater Elevation (feet AMSL) | 9/23/2013 Depth to Water (feet) | Groundwater Elevation (feet AMSL) | 9/17-18/2014 Depth to Water (feet) | Groundwater Elevation (feet AMSL) | 9/28-29/2015 Depth to Water (feet) | Groundwater Elevation (feet AMSL) | 9/20-21/2016 Depth to Water (feet) | Groundwater Elevation (feet AMSL) | Site Area (GPL or SMI) |
|----------|---------------------------------|------------------------------------|-----------------------------------|---------------------------------|-----------------------------------|---------------------------------|-----------------------------------|------------------------------------|-----------------------------------|------------------------------------|-----------------------------------|------------------------------------|-----------------------------------|------------------------|
| X-15BR   | 585.13                          | NA-NF                              | NA                                | NA-NF                           | NA                                | NA-NL                           | NA                                | NA                                 | NA                                | NA                                 | NA                                | NA                                 | NA                                | GPL                    |
| X-16A    | 587.44                          | 4.95                               | 582.49                            | 4.43                            | NA                                | dry                             | dry                               | 3.00                               | 584.44                            | 3.82                               | 583.62                            | 5.71                               | 581.73                            | GPL                    |
| X-16B    | 587.20                          | 4.16                               | 583.04                            | 4.47                            | 582.73                            | 5.41                            | 581.79                            | 2.57                               | 584.63                            | 3.49                               | 583.71                            | 4.50                               | 582.70                            | GPL                    |
| X-1A     | 597.72                          | 12.25                              | 585.47                            | 12.20                           | 585.52                            | 12.41                           | 585.31                            | 11.72                              | 586.00                            | 12.14                              | 585.58                            | 12.09                              | 585.63                            | GPL                    |
| X-1B     | 597.69                          | 13.35                              | 584.34                            | 13.39                           | 584.30                            | 13.66                           | 584.03                            | 12.63                              | 585.06                            | 13.02                              | 584.67                            | 12.89                              | 584.80                            | GPL                    |
| X-1CR2   | 598.41                          | 12.41                              | 586.00                            | 12.61                           | 585.80                            | 12.60                           | 585.81                            | 12.31                              | 586.10                            | 12.64                              | 585.77                            | 12.44                              | 585.97                            | GPL                    |
| X-2A     | 593.12                          | 5.57                               | 587.55                            | 4.95                            | 588.17                            | 5.77                            | 587.35                            | 3.81                               | 589.31                            | 5.10                               | 588.02                            | 4.97                               | 588.15                            | GPL                    |

- Notes:**
- 1. Elevations are shown in feet above mean sea level (AMSL) relative to the NGVD datum of 1929.
  - 2. Depth to water measurements were taken from the top of well casing.
  - 3. Monitoring wells in the MW-128 and X-1 well clusters were extended during landfill capping activities. Reference elevations shown above are from August 2000 when the wells were resurveyed.
  - 4. QPTW-03 was replaced by QPTW-03R and neither were monitored in 2014.
- CNL                Could not locate  
GPL                Green Point Landfill  
NA                 Not available  
SMI                Saginaw Malleable Iron Plant
- <sup>1</sup>. Product was measured in the following wells at the indicated thickness: MW-160WT with 0.32 feet; QPTW-01 with 0.37 feet; QPTW-03 with 0.40 feet; QPTW-04 with 1.35 feet; QPTW-05 with 1.23 feet; and QPTW-13 with field notes indicating product was too thick to detect water.
- <sup>4</sup>. Product was measured in the following wells at the indicated thickness: QPTW-01 with 1.04 feet; QPTW-04 with 1.90 feet; and QPTW-05 with 1.78 feet.

Table 2  
Analytical Data Summary Table - GPL Organics  
Saginaw, MI  
RACER Trust



|                   |                      |                 | Volatile Organics     |                           |                                       |                       |                    |                    |                        |                             |                   |                     |                    |                            |                     |
|-------------------|----------------------|-----------------|-----------------------|---------------------------|---------------------------------------|-----------------------|--------------------|--------------------|------------------------|-----------------------------|-------------------|---------------------|--------------------|----------------------------|---------------------|
| Sample ID:        | Sample Depth (feet): | Date Collected: | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachloroethane | 1,1,2-trichloro-1,2,2-trifluoroethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2,4-Trichlorobenzene | 1,2-Dibromo-3-chloropropane | 1,2-Dibromoethane | 1,2-Dichlorobenzene | 1,2-Dichloroethane | 1,2-Dichloroethene (total) | 1,2-Dichloropropane |
| MDEQ GSI Criteria |                      |                 | 89                    | 78 (X)                    | 32                                    | 330 (X)               | 740                | 130                | 99 (X)                 | --                          | 5.7 (X)           | 13                  | 360 (X)            | 130                        | 230 (X)             |
| MW-117S1          | 24.2 - 29.2          | 06/20/95        | 1.0 U                 | 1.0 U                     | --                                    | 1.0 U                 | 1.0 U              | 1.0 U              | --                     | --                          | --                | 1.0 U               | 1.0 U              | 1.0 U                      | 1.0 U               |
| MW-117S1          | 24.2 - 29.2          | 05/19/00        | 1.0 U                 | 1.0 U                     | --                                    | 1.0 U                 | 1.0 U              | 1.0 U              | --                     | --                          | --                | --                  | 1.0 U              | 1.0 U                      | 1.0 U               |
| MW-117S1          | 24.2 - 29.2          | 06/19/01        | 1.0 U                 | 1.0 U                     | --                                    | 1.0 U                 | 1.0 U              | 1.0 U              | --                     | --                          | --                | --                  | 1.0 U              | 1.0 U                      | 1.0 U               |
| MW-117S1          | 24.2 - 29.2          | 06/26/02        | 1.0 U                 | 1.0 U                     | 1.0 U                                 | 1.0 U                 | 1.0 U              | 1.0 U              | 1.0 U                  | 2.0 U                       | 1.0 U             | 1.0 U               | 1.0 U              | --                         | 1.0 U               |
| MW-117S1          | 24.2 - 29.2          | 06/19/03        | 1.0 U                 | 1.0 U                     | --                                    | 1.0 U                 | 1.0 U              | 1.0 U              | --                     | --                          | --                | --                  | 1.0 U              | --                         | 1.0 U               |
| MW-117S1          | 24.2 - 29.2          | 05/27/04        | 1.0 U                 | 1.0 U                     | --                                    | 1.0 U                 | 1.0 U              | 1.0 U              | --                     | --                          | --                | --                  | 1.0 U              | --                         | 1.0 U               |
| MW-117S1          | 24.2 - 29.2          | 06/23/05        | 1.0 U                 | 1.0 U                     | --                                    | 1.0 U                 | 1.0 U              | 1.0 U              | --                     | --                          | --                | --                  | 1.0 U              | 2.0 U                      | 1.0 U               |
| MW-117S1          | 24.2 - 29.2          | 12/13/06        | 1.0 U                 | 1.0 U                     | 1.0 U                                 | 1.0 U                 | 1.0 U              | 1.0 U              | 5.0 U                  | 1.0 U                       | 1.0 U             | 1.0 U               | 1.0 U              | --                         | 1.0 U               |
| MW-117S1          | 24.2 - 29.2          | 09/27/16        | --                    | --                        | --                                    | --                    | --                 | --                 | --                     | --                          | --                | --                  | --                 | --                         | --                  |
| MW-117S2          | 35 - 40              | 06/20/95        | 1.0 U                 | 1.0 U                     | --                                    | 1.0 U                 | 1.0 U              | 1.0 U              | --                     | --                          | --                | 1.0 U               | 1.0 U              | 1.0 U                      | 1.0 U               |
| MW-117S2          | 35 - 40              | 05/20/00        | --                    | --                        | --                                    | --                    | --                 | --                 | --                     | --                          | --                | --                  | --                 | --                         | --                  |
| MW-117S2          | 35 - 40              | 12/13/06        | 1.0 U                 | 1.0 U                     | 1.0 U                                 | 1.0 U                 | 1.0 U              | 1.0 U              | 5.0 U                  | 1.0 U                       | 1.0 U             | 1.0 U               | 1.0 U              | --                         | 1.0 U               |
| MW-117WT          | 3 - 13               | 06/20/95        | 1.0 U                 | 1.0 U                     | --                                    | 1.0 U                 | 1.0 U              | 1.0 U              | --                     | --                          | --                | 1.0 U               | 1.0 U              | 1.0 U                      | 1.0 U               |
| MW-117WT          | 3 - 13               | 05/19/00        | 1.0 U                 | 1.0 U                     | --                                    | 1.0 U                 | 1.0 U              | 1.0 U              | --                     | --                          | --                | --                  | 1.0 U              | 1.0 U                      | 1.0 U               |
| MW-117WT          | 3 - 13               | 06/18/01        | 1.0 U                 | 1.0 U                     | --                                    | 1.0 U                 | 1.0 U              | 1.0 U              | --                     | --                          | --                | --                  | 1.0 U              | 1.0 U                      | 1.0 U               |
| MW-117WT          | 3 - 13               | 06/26/02        | 1.0 U                 | 1.0 U                     | 1.0 U                                 | 1.0 U                 | 1.0 U              | 1.0 U              | 1.0 U                  | 2.0 U                       | 1.0 U             | 1.0 U               | 1.0 U              | --                         | 1.0 U               |
| MW-117WT          | 3 - 13               | 06/19/03        | 1.0 U                 | 1.0 U                     | --                                    | 1.0 U                 | 1.0 U              | 1.0 U              | --                     | --                          | --                | --                  | 1.0 U              | --                         | 1.0 U               |
| MW-117WT          | 3 - 13               | 12/09/04        | 1.0 U [1.0 U]         | 1.0 UJ [1.0 UJ]           | --                                    | 1.0 U [1.0 U]         | 1.0 U [1.0 U]      | 1.0 U [1.0 U]      | --                     | --                          | --                | --                  | 1.0 U [1.0 U]      | 2.0 U [2.0 U]              | 1.0 U [1.0 U]       |
| MW-117WT          | 3 - 13               | 06/23/05        | 1.0 U                 | 1.0 U                     | --                                    | 1.0 U                 | 1.0 U              | 1.0 U              | --                     | --                          | --                | --                  | 1.0 U              | 2.0 U                      | 1.0 U               |
| MW-117WT          | 3 - 13               | 12/13/06        | 1.0 U                 | 1.0 U                     | 1.0 U                                 | 1.0 U                 | 1.0 U              | 1.0 U              | 5.0 U                  | 1.0 U                       | 1.0 U             | 1.0 U               | 1.0 U              | --                         | 1.0 U               |
| MW-117WT          | 3 - 13               | 09/27/16        | --                    | --                        | --                                    | --                    | --                 | --                 | --                     | --                          | --                | --                  | --                 | --                         | --                  |
| MW-117WT          | 3 - 13               | 10/13/16        | --                    | --                        | --                                    | --                    | --                 | --                 | --                     | --                          | --                | --                  | --                 | --                         | --                  |
| MW-118S1          | 23.5 - 28.5          | 06/20/95        | 1.0 U                 | 1.0 U                     | --                                    | 1.0 U                 | 1.0 U              | 1.0 U              | --                     | --                          | --                | 1.0 U               | 1.0 U              | 1.0 U                      | 1.0 U               |
| MW-118S1          | 23.5 - 28.5          | 05/17/00        | 1.0 U [1.0 U]         | 1.0 U [1.0 U]             | --                                    | 1.0 U [1.0 U]         | 1.0 U [1.0 U]      | 1.0 U [1.0 U]      | --                     | --                          | --                | --                  | 1.0 U [1.0 U]      | 1.0 U [1.0 U]              | 1.0 U [1.0 U]       |
| MW-118S1          | 23.5 - 28.5          | 06/19/01        | 1.0 U                 | 1.0 U                     | --                                    | 1.0 U                 | 1.0 U              | 1.0 U              | --                     | --                          | --                | --                  | 1.0 U              | 1.0 U                      | 1.0 U               |
| MW-118S1          | 23.5 - 28.5          | 06/27/02        | 1.0 U                 | 1.0 U                     | 1.0 U                                 | 1.0 U                 | 1.0 U              | 1.0 U              | 1.0 U                  | 2.0 U                       | 1.0 U             | 1.0 U               | 1.0 U              | --                         | 1.0 U               |
| MW-118S1          | 23.5 - 28.5          | 06/19/03        | 1.0 U                 | 1.0 U                     | --                                    | 1.0 U                 | 1.0 U              | 1.0 U              | --                     | --                          | --                | --                  | 1.0 U              | --                         | 1.0 U               |
| MW-118S1          | 23.5 - 28.5          | 12/09/04        | 1.0 U                 | 1.0 UJ                    | --                                    | 1.0 U                 | 1.0 U              | 1.0 U              | --                     | --                          | --                | --                  | 1.0 U              | 2.0 U                      | 1.0 U               |
| MW-118S1          | 23.5 - 28.5          | 06/23/05        | 1.0 U                 | 1.0 U                     | --                                    | 1.0 U                 | 1.0 U              | 1.0 U              | --                     | --                          | --                | --                  | 1.0 U              | 2.0 U                      | 1.0 U               |
| MW-118S1          | 23.5 - 28.5          | 12/14/06        | 1.0 U                 | 1.0 U                     | 1.0 U                                 | 1.0 U                 | 1.0 U              | 1.0 U              | 5.0 U                  | 1.0 U                       | 1.0 U             | 1.0 U               | 1.0 U              | --                         | 1.0 U               |
| MW-118S1          | 23.5 - 28.5          | 09/27/16        | --                    | --                        | --                                    | --                    | --                 | --                 | --                     | --                          | --                | --                  | --                 | --                         | --                  |
| MW-118S2          | 38.5 - 43.5          | 06/20/95        | 1.0 U [1.0 U]         | 1.0 U [1.0 U]             | --                                    | 1.0 U [1.0 U]         | 1.0 U [1.0 U]      | 1.0 U [1.0 U]      | --                     | --                          | --                | 1.0 U [1.0 U]       | 1.0 U [1.0 U]      | 1.0 U [1.0 U]              | 1.0 U [1.0 U]       |
| MW-118S2          | 38.5 - 43.5          | 12/14/06        | 1.0 U                 | 1.0 U                     | 1.0 U                                 | 1.0 U                 | 1.0 U              | 1.0 U              | 5.0 U                  | 1.0 U                       | 1.0 U             | 1.0 U               | 1.0 U              | --                         | 1.0 U               |

Table 2  
Analytical Data Summary Table - GPL Organics  
Saginaw, MI  
RACER Trust



|                   |                      |                 | Volatile Organics     |                           |                                       |                       |                    |                    |                        |                             |                   |                     |                    |                            |                     |
|-------------------|----------------------|-----------------|-----------------------|---------------------------|---------------------------------------|-----------------------|--------------------|--------------------|------------------------|-----------------------------|-------------------|---------------------|--------------------|----------------------------|---------------------|
| Sample ID:        | Sample Depth (feet): | Date Collected: | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachloroethane | 1,1,2-trichloro-1,2,2-trifluoroethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2,4-Trichlorobenzene | 1,2-Dibromo-3-chloropropane | 1,2-Dibromoethane | 1,2-Dichlorobenzene | 1,2-Dichloroethane | 1,2-Dichloroethene (total) | 1,2-Dichloropropane |
| MDEQ GSI Criteria |                      |                 | 89                    | 78 (X)                    | 32                                    | 330 (X)               | 740                | 130                | 99 (X)                 | --                          | 5.7 (X)           | 13                  | 360 (X)            | 130                        | 230 (X)             |
| MW-118WT          | 1.6 - 11.6           | 06/20/95        | 1.0 U                 | 1.0 U                     | --                                    | 1.0 U                 | 1.0 U              | 1.0 U              | --                     | --                          | --                | 1.0 U               | 1.0 U              | 1.0 U                      | 1.0 U               |
| MW-118WT          | 1.6 - 11.6           | 05/17/00        | 1.0 U                 | 1.0 U                     | --                                    | 1.0 U                 | 1.0 U              | 1.0 U              | --                     | --                          | --                | --                  | 1.0 U              | 1.0 U                      | 1.0 U               |
| MW-118WT          | 1.6 - 11.6           | 06/19/01        | 4.0 U [4.0 U]         | 4.0 U [4.0 U]             | --                                    | 4.0 U [4.0 U]         | 4.0 U [4.0 U]      | 4.0 U [4.0 U]      | --                     | --                          | --                | --                  | 4.0 U [4.0 U]      | 4.0 U [4.0 U]              | 4.0 U [4.0 U]       |
| MW-118WT          | 1.6 - 11.6           | 06/27/02        | 2.0 U [1.0 U]         | 2.0 U [1.0 U]             | 2.0 U [1.0 U]                         | 2.0 U [1.0 U]         | 2.0 U [1.0 U]      | 2.0 U [1.0 U]      | 2.0 U [1.0 U]          | 4.0 UJ [2.0 U]              | 2.0 U [1.0 U]     | 2.0 U [1.0 U]       | 2.0 U [1.0 U]      | --                         | 2.0 U [1.0 U]       |
| MW-118WT          | 1.6 - 11.6           | 06/19/03        | 1.0 U [1.0 U]         | 1.0 U [1.0 U]             | --                                    | 1.0 U [1.0 U]         | 1.0 U [1.0 U]      | 1.0 U [1.0 U]      | --                     | --                          | --                | --                  | 1.0 U [1.0 U]      | --                         | 1.0 U [1.0 U]       |
| MW-118WT          | 1.6 - 11.6           | 05/27/04        | 1.7 U                 | 1.7 U                     | --                                    | 1.7 U                 | 1.7 U              | 1.7 U              | --                     | --                          | --                | --                  | 1.7 U              | --                         | 1.7 U               |
| MW-118WT          | 1.6 - 11.6           | 06/23/05        | 1.0 U                 | 1.0 U                     | --                                    | 1.0 U                 | 1.0 U              | 1.0 U              | --                     | --                          | --                | --                  | 1.0 U              | 2.0 U                      | 1.0 U               |
| MW-118WT          | 1.6 - 11.6           | 12/14/06        | 1.0 U                 | 1.0 U                     | 1.0 U                                 | 1.0 U                 | 1.0 U              | 1.0 U              | 5.0 U                  | 1.0 U                       | 1.0 U             | 1.0 U               | 1.0 U              | --                         | 1.0 U               |
| MW-118WT          | 1.6 - 11.6           | 09/27/16        | --                    | --                        | --                                    | --                    | --                 | --                 | --                     | --                          | --                | --                  | --                 | --                         | --                  |
| MW-183WT          | 6 - 16               | 08/17/00        | --                    | --                        | --                                    | --                    | --                 | --                 | --                     | --                          | --                | --                  | --                 | --                         | --                  |
| MW-183WT          | 6 - 16               | 09/28/16        | --                    | --                        | --                                    | --                    | --                 | --                 | --                     | --                          | --                | --                  | --                 | --                         | --                  |
| TWW-1             | 1.5 - 6.5            | 01/25/97        | 330 U                 | 330 U                     | --                                    | 330 U                 | 330 U              | 330 U              | --                     | --                          | --                | --                  | 330 U              | --                         | 330 U               |
| TWW-1             | 1.5 - 6.5            | 08/08/98        | 200 U                 | 200 U                     | --                                    | 200 U                 | 200 U              | 200 U              | --                     | --                          | --                | 200 U               | 200 U              | 8,000                      | 200 U               |
| TWW-1             | 1.5 - 6.5            | 05/18/99        | 250 UD [250 UD]       | 250 UD [250 UD]           | --                                    | 250 UD [250 UD]       | 250 UD [250 UD]    | 250 UD [250 UD]    | --                     | --                          | --                | --                  | 250 UD [250 UD]    | 11,000 D [10,000 D]        | 250 UD [250 UD]     |
| TWW-1             | 1.5 - 6.5            | 05/21/00        | 250 U                 | 250 UJ                    | --                                    | 250 U                 | 250 U              | 51 J               | --                     | --                          | --                | --                  | 250 U              | 8,800                      | 250 U               |
| TWW-1             | 1.5 - 6.5            | 09/29/10        | 71 U                  | 71 U                      | 71 U                                  | 71 U                  | 71 U               | 71 U               | 360 U                  | 71 U                        | 71 U              | 71 U                | 71 U               | --                         | 71 U                |
| TWW-1             | 1.5 - 6.5            | 09/21/11        | 77 U [77 U]           | 77 U [77 U]               | 77 U [77 U]                           | 77 U [77 U]           | 77 U [77 U]        | 77 U [77 U]        | 77 U [77 U]            | 150 U [150 U]               | 77 U [77 U]       | 77 U [77 U]         | 77 U [77 U]        | --                         | 77 U [77 U]         |
| TWW-1             | 1.5 - 6.5            | 09/14/12        | 4.0 U [4.0 U]         | 4.0 U [4.0 U]             | 4.0 U [4.0 U]                         | 4.0 U [4.0 U]         | 1.7 J [1.6 J]      | 4.0 U [4.0 U]      | 4.0 U [4.0 U]          | 8.0 U [8.0 U]               | 4.0 U [4.0 U]     | 4.0 U [4.0 U]       | 4.0 U [4.0 U]      | --                         | 4.0 U [4.0 U]       |
| TWW-1             | 1.5 - 6.5            | 09/24/13        | 18 U [20 U]           | 18 U [20 U]               | 18 U [20 U]                           | 18 U [20 U]           | 18 U [20 U]        | 18 U [20 U]        | 18 U [20 U]            | 36 U [40 U]                 | 18 U [20 U]       | 18 U [20 U]         | 18 U [20 U]        | --                         | 18 U [20 U]         |
| TWW-1             | 1.5 - 6.5            | 09/23/14        | 25 U [25 U]           | 25 U [25 U]               | --                                    | 25 U [25 U]           | 25 U [25 U]        | 25 U [25 U]        | 25 U [25 U]            | 50 U [50 U]                 | 25 U [25 U]       | 25 U [25 U]         | 25 U [25 U]        | --                         | 25 U [25 U]         |
| TWW-1             | 1.5 - 6.5            | 10/01/15        | 5.0 U [5.0 U]         | 5.0 U [5.0 U]             | 5.0 U [5.0 U]                         | 5.0 U [5.0 U]         | 1.5 J [5.0 U]      | 5.0 U [5.0 U]      | 5.0 U [5.0 U]          | 10 U [10 U]                 | 5.0 U [5.0 U]     | 5.0 U [5.0 U]       | 5.0 U [5.0 U]      | --                         | 5.0 U [5.0 U]       |
| TWW-1             | 1.5 - 6.5            | 09/27/16        | < 10 U                | < 10 U                    | --                                    | < 10 U                | < 10 U             | < 10 U             | 17                     | < 20 U                      | < 10 U            | < 10 U              | < 10 U             | --                         | < 10 U              |
| TWW-1 Dup         | 1.5 - 6.5            | 09/27/16        | < 7.7 U               | < 7.7 U                   | --                                    | < 7.7 U               | < 7.7 U            | < 7.7 U            | < 7.7 U                | < 15 U                      | < 7.7 U           | < 7.7 U             | < 7.7 U            | --                         | < 7.7 U             |
| X-10BR            | 26.3 - 31.3          | 07/24/95        | 1.0 U                 | 1.0 U                     | --                                    | 1.0 U                 | 1.0 U              | 1.0 U              | --                     | --                          | --                | 1.0 U               | 1.0 U              | 1.0 U                      | 1.0 U               |
| X-10BR            | 26.3 - 31.3          | 12/15/06        | 1.0 U                 | 1.0 U                     | 1.0 U                                 | 1.0 U                 | 1.0 U              | 1.0 U              | 5.0 U                  | 1.0 U                       | 1.0 U             | 1.0 U               | 1.0 U              | --                         | 1.0 U               |
| X-4A              | 6.2 - 9.2            | 12/14/06        | 1.0 U                 | 1.0 U                     | 1.0 U                                 | 1.0 U                 | 1.0 U              | 1.0 U              | 5.0 U                  | 1.0 U                       | 1.0 U             | 1.0 U               | 1.0 U              | --                         | 1.0 U               |
| X-4AR             | 3.3 - 8.3            | 07/24/95        | 1.0 U                 | 1.0 U                     | --                                    | 1.0 U                 | 1.0 U              | 1.0 U              | --                     | --                          | --                | 1.0 U               | 1.0 U              | 1.0 U                      | 1.0 U               |
| X-4AR             | 3.3 - 8.3            | 06/09/96        | 1.0 U                 | 1.0 U                     | --                                    | 1.0 U                 | 1.0 U              | 1.0 U              | --                     | --                          | --                | 1.0 U               | 1.0 U              | 1.0 U                      | 1.0 U               |
| X-4AR             | 3.3 - 8.3            | 03/05/97        | --                    | --                        | --                                    | --                    | --                 | --                 | --                     | --                          | --                | --                  | --                 | --                         | --                  |
| X-4CAUG           | 18 - 23              | 07/24/95        | 1.0 U                 | 1.0 U                     | --                                    | 1.0 U                 | 1.0 U              | 1.0 U              | --                     | --                          | --                | 1.0 U               | 1.0 U              | 1.0 U                      | 1.0 U               |
| X-4CAUG           | 18 - 23              | 06/08/96        | 1.0 U                 | 1.0 U                     | --                                    | 1.0 U                 | 1.0 U              | 1.0 U              | --                     | --                          | --                | 1.0 U               | 1.0 U              | 1.0 U                      | 1.0 U               |
| X-4CAUGR          | 18-23                | 09/28/16        | --                    | --                        | --                                    | --                    | --                 | --                 | --                     | --                          | --                | --                  | --                 | --                         | --                  |
| X-4D              | 40 - 45              | 01/09/08        | 1.0 U                 | 1.0 U                     | 1.0 U                                 | 1.0 U                 | 1.0 U              | 1.0 U              | 5.0 U                  | 1.0 U                       | 1.0 U             | 1.0 U               | 1.0 U              | --                         | 1.0 U               |
| X-4D              | 40 - 45              | 04/02/08        | 1.0 U                 | 1.0 U                     | 1.0 U                                 | 1.0 U                 | 1.0 U              | 1.0 U              | 5.0 U                  | 1.0 U                       | 1.0 U             | 1.0 U               | 1.0 U              | --                         | 1.0 U               |
| X-4D              | 40 - 45              | 09/28/16        | --                    | --                        | --                                    | --                    | --                 | --                 | --                     | --                          | --                | --                  | --                 | --                         | --                  |
| X-9AR             | 3 - 13               | 07/24/95        | 1.0 U                 | 1.0 U                     | --                                    | 1.0 U                 | 1.0 U              | 1.0 U              | --                     | --                          | --                | 1.0 U               | 1.0 U              | 1.0 U                      | 1.0 U               |
| X-9AR             | 3 - 13               | 06/09/96        | 1.0 U                 | 1.0 U                     | --                                    | 1.0 U                 | 1.0 U              | 1.0 U              | --                     | --                          | --                | 1.0 U               | 1.0 U              | 1.0 U                      | 1.0 U               |
| X-9AR             | 3 - 13               | 03/05/97        | --                    | --                        | --                                    | --                    | --                 | --                 | --                     | --                          | --                | --                  | --                 | --                         | --                  |
| X-9AR             | 3 - 13               | 12/15/06        | 1.0 U                 | 1.0 U                     | 1.0 U                                 | 1.0 U                 | 1.0 U              | 1.0 U              | 5.0 U                  | 1.0 U                       | 1.0 U             | 1.0 U               | 1.0 U              | --                         | 1.0 U               |
| X-9AR             | 3 - 13               | 09/28/16        | --                    | --                        | --                                    | --                    | --                 | --                 | --                     | --                          | --                | --                  | --                 | --                         | --                  |

Table 2  
Analytical Data Summary Table - GPL Organics  
Saginaw, MI  
RACER Trust



|                   |                      |                 | Volatile Organics     |                           |                                       |                       |                    |                    |                        |                             |                   |                     |                    |                            |                     |
|-------------------|----------------------|-----------------|-----------------------|---------------------------|---------------------------------------|-----------------------|--------------------|--------------------|------------------------|-----------------------------|-------------------|---------------------|--------------------|----------------------------|---------------------|
| Sample ID:        | Sample Depth (feet): | Date Collected: | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachloroethane | 1,1,2-trichloro-1,2,2-trifluoroethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2,4-Trichlorobenzene | 1,2-Dibromo-3-chloropropane | 1,2-Dibromoethane | 1,2-Dichlorobenzene | 1,2-Dichloroethane | 1,2-Dichloroethene (total) | 1,2-Dichloropropane |
| MDEQ GSI Criteria |                      |                 | 89                    | 78 (X)                    | 32                                    | 330 (X)               | 740                | 130                | 99 (X)                 | --                          | 5.7 (X)           | 13                  | 360 (X)            | 130                        | 230 (X)             |
| X-9BR             | 26 - 31              | 07/24/95        | 1.0 U                 | 1.0 U                     | --                                    | 1.0 U                 | 1.0 U              | 1.0 U              | --                     | --                          | --                | 1.0 U               | 1.0 U              | 1.0 U                      | 1.0 U               |
| X-9BR             | 26 - 31              | 06/08/96        | 1.0 U                 | 1.0 U                     | --                                    | 1.0 U                 | 1.0 U              | 1.0 U              | --                     | --                          | --                | 1.0 U               | 1.0 U              | 1.0 U                      | 1.0 U               |
| X-9BR             | 26 - 31              | 12/15/06        | 1.0 U                 | 1.0 U                     | 1.0 U                                 | 1.0 U                 | 1.0 U              | 1.0 U              | 5.0 U                  | 1.0 U                       | 1.0 U             | 1.0 U               | 1.0 U              | --                         | 1.0 U               |
| X-9BR             | 26 - 31              | 09/28/16        | --                    | --                        | --                                    | --                    | --                 | --                 | --                     | --                          | --                | --                  | --                 | --                         | --                  |
| X-9CAUG           | 20 - 25              | 07/24/95        | 1.0 U                 | 1.0 U                     | --                                    | 1.0 U                 | 1.0 U              | 1.0 U              | --                     | --                          | --                | 1.0 U               | 1.0 U              | 1.0 U                      | 1.0 U               |
| X-9CAUG           | 20 - 25              | 06/08/96        | 1.0 U                 | 1.0 U                     | --                                    | 1.0 U                 | 1.0 U              | 1.0 U              | --                     | --                          | --                | 1.0 U               | 1.0 U              | 1.0 U                      | 1.0 U               |
| X-9CAUG           | 20 - 25              | 12/15/06        | 1.0 U                 | 1.0 U                     | 1.0 U                                 | 1.0 U                 | 1.0 U              | 1.0 U              | 5.0 U                  | 1.0 U                       | 1.0 U             | 1.0 U               | 1.0 U              | --                         | 1.0 U               |
| X-9CAUG           | 20 - 25              | 09/28/16        | --                    | --                        | --                                    | --                    | --                 | --                 | --                     | --                          | --                | --                  | --                 | --                         | --                  |
| X-9D              | 42.5 - 47.5          | 01/08/08        | 1.0 U                 | 1.0 U                     | 1.0 U                                 | 1.0 U                 | 1.0 U              | 1.0 U              | 5.0 U                  | 1.0 U                       | 1.0 U             | 1.0 U               | 1.0 U              | --                         | 1.0 U               |
| X-9D              | 42.5 - 47.5          | 03/11/08        | 1.0 U                 | 1.0 U                     | 1.0 U                                 | 1.0 U                 | 1.0 U              | 1.0 U              | 5.0 U                  | 1.0 UJ                      | 1.0 U             | 1.0 U               | 1.0 U              | --                         | 1.0 U               |
| X-9D              | 42.5 - 47.5          | 09/28/16        | --                    | --                        | --                                    | --                    | --                 | --                 | --                     | --                          | --                | --                  | --                 | --                         | --                  |



Table 2  
Analytical Data Summary Table - GPL Organics  
Saginaw, MI  
RACER Trust



| Volatile Organics |                      |                 |                     |                     |             |             |               |                      |              |                 |                      |                |                |                  |
|-------------------|----------------------|-----------------|---------------------|---------------------|-------------|-------------|---------------|----------------------|--------------|-----------------|----------------------|----------------|----------------|------------------|
| Sample ID:        | Sample Depth (feet): | Date Collected: | 1,3-Dichlorobenzene | 1,4-Dichlorobenzene | 1,4-Dioxane | 2-Butanone  | 2-Hexanone    | 4-Methyl-2-pentanone | Acetone      | Benzene         | Bromodichloromethane | Bromoform      | Bromomethane   | Carbon Disulfide |
| MDEQ GSI Criteria |                      |                 | 28                  | 17                  | 2,800 (X)   | 2,200       | ID            | ID                   | 1,700        | 200 (X)         | ID                   | ID             | 35             | ID               |
| MW-117S1          | 24.2 - 29.2          | 06/20/95        | 1.0 U               | 1.0 U               | --          | 50 U        | R             | 50 U                 | 50 U         | 1.0 U           | 1.0 U                | 1.0 U          | 1.0 U          | 0.50 J           |
| MW-117S1          | 24.2 - 29.2          | 05/19/00        | --                  | --                  | --          | 10 U        | 10 U          | 10 U                 | 10 U         | 0.60 J          | 1.0 U                | 1.0 U          | 1.0 U          | 1.0 U            |
| MW-117S1          | 24.2 - 29.2          | 06/19/01        | --                  | --                  | --          | 10 U        | 10 U          | 5.0 U                | 10 U         | 1.0 U           | 1.0 U                | 1.0 U          | 1.0 U          | 1.0 U            |
| MW-117S1          | 24.2 - 29.2          | 06/26/02        | 1.0 U               | 1.0 U               | --          | 10 U        | 10 U          | 10 U                 | 10 UJ        | 0.75 J          | 1.0 U                | 1.0 U          | 1.0 U          | 1.0 U            |
| MW-117S1          | 24.2 - 29.2          | 06/19/03        | --                  | --                  | --          | 2.0 U       | 2.0 U         | 2.0 U                | 2.0 U        | 0.58 J          | 1.0 U                | 1.0 U          | 1.0 U          | 1.0 U            |
| MW-117S1          | 24.2 - 29.2          | 05/27/04        | --                  | --                  | --          | 2.0 UJ      | 2.0 U         | 2.0 U                | 2.0 UJ       | 0.71 J          | 1.0 U                | 1.0 U          | 1.0 U          | 1.0 U            |
| MW-117S1          | 24.2 - 29.2          | 06/23/05        | --                  | --                  | --          | 25 U        | 50 U          | 50 U                 | 25 U         | 0.66 J          | 1.0 U                | 1.0 U          | 1.0 U          | 5.0 U            |
| MW-117S1          | 24.2 - 29.2          | 12/13/06        | 1.0 U               | 1.0 U               | --          | 25 UJ       | 50 UJ         | 50 U                 | 25 UJ        | 0.65 J          | 1.0 U                | 1.0 U          | 1.0 U          | 5.0 U            |
| MW-117S1          | 24.2 - 29.2          | 09/27/16        | --                  | --                  | --          | --          | --            | --                   | --           | --              | --                   | --             | --             | --               |
| MW-117S2          | 35 - 40              | 06/20/95        | 1.0 U               | 1.0 U               | --          | 50 U        | R             | 50 U                 | 50 U         | 1.0 U           | 1.0 U                | 1.0 U          | 1.0 U          | 0.80 J           |
| MW-117S2          | 35 - 40              | 05/20/00        | --                  | --                  | --          | --          | --            | --                   | --           | --              | --                   | --             | --             | --               |
| MW-117S2          | 35 - 40              | 12/13/06        | 1.0 U               | 1.0 U               | --          | 25 UJ       | 50 UJ         | 50 U                 | 25 UJ        | 1.0 U           | 1.0 U                | 1.0 U          | 1.0 U          | 5.0 U            |
| MW-117WT          | 3 - 13               | 06/20/95        | 1.0 U               | 1.0 U               | --          | 50 U        | R             | 50 U                 | 50 U         | 1.0 U           | 1.0 U                | 1.0 U          | 1.0 U          | 50 U             |
| MW-117WT          | 3 - 13               | 05/19/00        | --                  | --                  | --          | 10 U        | 10 U          | 10 U                 | 10 U         | 0.13 J          | 1.0 U                | 1.0 U          | 1.0 U          | 1.0 U            |
| MW-117WT          | 3 - 13               | 06/18/01        | --                  | --                  | --          | 10 U        | 10 U          | 5.0 U                | 10 U         | 1.0 U           | 1.0 U                | 1.0 U          | 1.0 U          | 1.0 U            |
| MW-117WT          | 3 - 13               | 06/26/02        | 1.0 U               | 1.0 U               | --          | 10 U        | 10 U          | 10 U                 | 10 UJ        | 0.16 J          | 1.0 U                | 1.0 U          | 1.0 U          | 1.0 U            |
| MW-117WT          | 3 - 13               | 06/19/03        | --                  | --                  | --          | 2.0 U       | 2.0 U         | 2.0 U                | 2.0 U        | 1.0 U           | 1.0 U                | 1.0 U          | 1.0 U          | 1.0 U            |
| MW-117WT          | 3 - 13               | 12/09/04        | --                  | --                  | --          | 25 U [25 U] | 50 UJ [50 UJ] | 50 U [50 U]          | 25 U [25 U]  | 0.23 J [0.25 J] | 1.0 U [1.0 U]        | 1.0 U [1.0 UJ] | 1.0 UJ [1.0 U] | 5.0 U [5.0 U]    |
| MW-117WT          | 3 - 13               | 06/23/05        | --                  | --                  | --          | 25 U        | 50 U          | 50 U                 | 25 U         | 1.0 U           | 1.0 U                | 1.0 U          | 1.0 U          | 5.0 U            |
| MW-117WT          | 3 - 13               | 12/13/06        | 1.0 U               | 1.0 U               | --          | 25 UJ       | 50 UJ         | 50 U                 | 25 UJ        | 1.0 U           | 1.0 U                | 1.0 U          | 1.0 U          | 5.0 U            |
| MW-117WT          | 3 - 13               | 09/27/16        | --                  | --                  | --          | --          | --            | --                   | --           | --              | --                   | --             | --             | --               |
| MW-117WT          | 3 - 13               | 10/13/16        | --                  | --                  | --          | --          | --            | --                   | --           | --              | --                   | --             | --             | --               |
| MW-118S1          | 23.5 - 28.5          | 06/20/95        | 1.0 U               | 1.0 U               | --          | 50 U        | R             | 50 U                 | 50 U         | 1.0 U           | 1.0 U                | 1.0 U          | 1.0 U          | 1.3              |
| MW-118S1          | 23.5 - 28.5          | 05/17/00        | --                  | --                  | --          | 10 U [10 U] | 10 U [10 U]   | 10 U [10 U]          | 10 U [10 U]  | 0.47 J [0.46 J] | 1.0 U [1.0 U]        | 1.0 U [1.0 U]  | 1.0 U [1.0 U]  | 1.0 U [1.0 U]    |
| MW-118S1          | 23.5 - 28.5          | 06/19/01        | --                  | --                  | --          | 10 U        | 10 U          | 5.0 U                | 10 U         | 1.0 U           | 1.0 U                | 1.0 U          | 1.0 U          | 1.0 U            |
| MW-118S1          | 23.5 - 28.5          | 06/27/02        | 1.0 U               | 1.0 U               | --          | 10 UJ       | 10 U          | 10 U                 | 10 U         | 0.37 J          | 1.0 U                | 1.0 U          | 1.0 U          | 1.0 U            |
| MW-118S1          | 23.5 - 28.5          | 06/19/03        | --                  | --                  | --          | 2.0 U       | 2.0 U         | 2.0 U                | 2.0 U        | 1.0 U           | 1.0 U                | 1.0 U          | 1.0 U          | 1.0 U            |
| MW-118S1          | 23.5 - 28.5          | 12/09/04        | --                  | --                  | --          | 25 U        | 50 UJ         | 50 U                 | 25 U         | 0.53 J          | 1.0 U                | 1.0 UJ         | 1.0 U          | 5.0 U            |
| MW-118S1          | 23.5 - 28.5          | 06/23/05        | --                  | --                  | --          | 25 U        | 50 U          | 50 U                 | 25 U         | 1.0 U           | 1.0 U                | 1.0 U          | 1.0 U          | 5.0 U            |
| MW-118S1          | 23.5 - 28.5          | 12/14/06        | 1.0 U               | 1.0 U               | --          | 25 U        | 50 U          | 50 U                 | 25 UJ        | 1.0 U           | 1.0 U                | 1.0 U          | 1.0 U          | 5.0 U            |
| MW-118S1          | 23.5 - 28.5          | 09/27/16        | --                  | --                  | --          | --          | --            | --                   | --           | --              | --                   | --             | --             | --               |
| MW-118S2          | 38.5 - 43.5          | 06/20/95        | 1.0 U [1.0 U]       | 1.0 U [1.0 U]       | --          | 50 U [50 U] | R [R]         | 50 U [50 U]          | 3.0 J [50 U] | 0.60 J [1.0 U]  | 0.70 J [1.0 U]       | 1.0 U [1.0 U]  | 1.0 U [1.0 U]  | 6.0 J [2.0]      |
| MW-118S2          | 38.5 - 43.5          | 12/14/06        | 1.0 U               | 1.0 U               | --          | 25 U        | 50 U          | 50 U                 | 25 UJ        | 1.0 U           | 1.0 U                | 1.0 U          | 1.0 U          | 5.0 U            |



Table 2  
Analytical Data Summary Table - GPL Organics  
Saginaw, MI  
RACER Trust



| Volatile Organics |                      |                 |                     |                     |             |                     |                     |                      |                       |                 |                      |                 |                  |                  |
|-------------------|----------------------|-----------------|---------------------|---------------------|-------------|---------------------|---------------------|----------------------|-----------------------|-----------------|----------------------|-----------------|------------------|------------------|
| Sample ID:        | Sample Depth (feet): | Date Collected: | 1,3-Dichlorobenzene | 1,4-Dichlorobenzene | 1,4-Dioxane | 2-Butanone          | 2-Hexanone          | 4-Methyl-2-pentanone | Acetone               | Benzene         | Bromodichloromethane | Bromoform       | Bromomethane     | Carbon Disulfide |
| MDEQ GSI Criteria |                      |                 | 28                  | 17                  | 2,800 (X)   | 2,200               | ID                  | ID                   | 1,700                 | 200 (X)         | ID                   | ID              | 35               | ID               |
| MW-118WT          | 1.6 - 11.6           | 06/20/95        | 1.0 U               | 1.0 U               | --          | 50 U                | R                   | 50 U                 | 50 U                  | 1.0 U           | 1.0 U                | 1.0 U           | 1.0 U            | 50 U             |
| MW-118WT          | 1.6 - 11.6           | 05/17/00        | --                  | --                  | --          | 10 U                | 10 U                | 28                   | 10 U                  | 0.54 J          | 1.0 U                | 1.0 U           | 1.0 U            | 1.0 U            |
| MW-118WT          | 1.6 - 11.6           | 06/19/01        | --                  | --                  | --          | 40 U [40 U]         | 40 U [40 U]         | 180 [180]            | 40 U [40 U]           | 4.0 U [4.0 U]   | 4.0 U [4.0 U]        | 4.0 U [4.0 U]   | 4.0 U [4.0 U]    | 4.0 U [4.0 U]    |
| MW-118WT          | 1.6 - 11.6           | 06/27/02        | 2.0 U [1.0 U]       | 2.0 U [1.0 U]       | --          | 20 UJ [10 UJ]       | 20 UJ [10 U]        | 4.9 J [5.2 J]        | 20 UJ [10 U]          | 0.34 J [1.0 U]  | 2.0 U [1.0 U]        | 2.0 U [1.0 U]   | 2.0 U [1.0 U]    | 2.0 U [1.0 U]    |
| MW-118WT          | 1.6 - 11.6           | 06/19/03        | --                  | --                  | --          | 2.0 U [2.0 U]       | 2.0 U [2.0 U]       | 0.75 J [0.60 J]      | 2.0 U [2.0 U]         | 1.0 U [1.0 U]   | 1.0 U [1.0 U]        | 1.0 U [1.0 U]   | 1.0 U [1.0 U]    | 1.0 U [1.0 U]    |
| MW-118WT          | 1.6 - 11.6           | 05/27/04        | --                  | --                  | --          | 3.3 U               | 3.3 UJ              | 3.3 UJ               | 3.3 UJ                | 1.7 U           | 1.7 U                | 1.7 U           | 1.7 U            | 1.7 U            |
| MW-118WT          | 1.6 - 11.6           | 06/23/05        | --                  | --                  | --          | 25 U                | 50 U                | 50 U                 | 25 U                  | 1.0 U           | 1.0 U                | 1.0 U           | 1.0 U            | 5.0 U            |
| MW-118WT          | 1.6 - 11.6           | 12/14/06        | 1.0 U               | 1.0 U               | --          | 2.1 J               | 50 U                | 50 U                 | 25 UJ                 | 1.0 U           | 1.0 U                | 1.0 U           | 1.0 U            | 5.0 U            |
| MW-118WT          | 1.6 - 11.6           | 09/27/16        | --                  | --                  | --          | --                  | --                  | --                   | --                    | --              | --                   | --              | --               | --               |
| MW-183WT          | 6 - 16               | 08/17/00        | --                  | --                  | --          | --                  | --                  | --                   | --                    | --              | --                   | --              | --               | --               |
| MW-183WT          | 6 - 16               | 09/28/16        | --                  | --                  | --          | --                  | --                  | --                   | --                    | --              | --                   | --              | --               | --               |
| TWW-1             | 1.5 - 6.5            | 01/25/97        | --                  | --                  | --          | 17,000 U            | 17,000 U            | 17,000 U             | 33,000 U              | 1,700 U         | 330 U                | 330 U           | 330 U            | 17,000 U         |
| TWW-1             | 1.5 - 6.5            | 08/08/98        | 200 U               | 200 U               | --          | 2,000 U             | 2,000 U             | 2,000 U              | 2,000 U               | 1,000 U         | 200 U                | 200 U           | 200 U            | 1,000 U          |
| TWW-1             | 1.5 - 6.5            | 05/18/99        | --                  | --                  | --          | 1,300 UD [1,300 UD] | 1,300 UD [1,300 UD] | 1,300 UD [1,300 UD]  | 1,300 UJD [1,300 UJD] | 250 UD [250 UD] | 250 UD [250 UD]      | 250 UD [250 UD] | 250 UJD [250 UD] | 250 UD [250 UD]  |
| TWW-1             | 1.5 - 6.5            | 05/21/00        | --                  | --                  | --          | 2,500 U             | 2,500 U             | 2,500 U              | 2,500 U               | 250 U           | 250 U                | 250 U           | 250 U            | 250 U            |
| TWW-1             | 1.5 - 6.5            | 09/29/10        | 71 U                | 71 U                | --          | 1,800 U             | 3,600 U             | 3,600 U              | 1,800 U               | 71 U            | 71 U                 | 71 U            | 71 U             | 360 U            |
| TWW-1             | 1.5 - 6.5            | 09/21/11        | 77 U [77 U]         | 77 U [77 U]         | --          | 770 U [770 U]       | 770 U [770 U]       | 770 U [770 U]        | 770 U [770 U]         | 77 U [77 U]     | 77 U [77 U]          | 77 U [77 U]     | 77 U [77 U]      | 77 U [77 U]      |
| TWW-1             | 1.5 - 6.5            | 09/14/12        | 4.0 U [4.0 U]       | 4.0 U [4.0 U]       | --          | 40 U [40 U]         | 40 U [40 U]         | 40 U [40 U]          | 40 U [40 U]           | 4.0 U [4.0 U]   | 4.0 U [4.0 U]        | 4.0 U [4.0 U]   | 4.0 U [4.0 U]    | 4.0 U [4.0 U]    |
| TWW-1             | 1.5 - 6.5            | 09/24/13        | 18 U [20 U]         | 18 U [20 U]         | --          | 180 U [200 U]       | 180 U [200 U]       | 180 U [200 U]        | 26 J [24 J]           | 18 U [20 U]     | 18 U [20 U]          | 18 U [20 U]     | 18 U [20 U]      | 18 U [20 U]      |
| TWW-1             | 1.5 - 6.5            | 09/23/14        | 25 U [25 U]         | 25 U [25 U]         | --          | 250 U [250 U]       | 250 U [250 U]       | 250 U [250 U]        | 250 U [250 U]         | 25 U [25 U]     | 25 U [25 U]          | 25 U [25 U]     | 25 U [25 U]      | 25 U [25 U]      |
| TWW-1             | 1.5 - 6.5            | 10/01/15        | 5.0 U [5.0 U]       | 5.0 U [5.0 U]       | --          | 50 U [50 U]         | 50 U [50 U]         | 50 U [50 U]          | 6.5 J,B [50 U]        | 5.0 U [5.0 U]   | 5.0 U [5.0 U]        | 5.0 U [5.0 U]   | 5.0 U [5.0 U]    | 5.0 U [5.0 U]    |
| TWW-1             | 1.5 - 6.5            | 09/27/16        | 2.7 J               | 3.3 J               | --          | < 100 U             | < 100 U             | < 100 U              | < 100 U               | < 10 U          | < 10 U               | < 10 U          | < 10 U           | < 10 U           |
| TWW-1 Dup         | 1.5 - 6.5            | 09/27/16        | < 7.7 U             | < 7.7 U             | --          | < 77 U              | < 77 U              | < 77 U               | < 77 U                | < 7.7 U         | < 7.7 U              | < 7.7 U         | < 7.7 U          | < 7.7 U          |
| X-10BR            | 26.3 - 31.3          | 07/24/95        | 1.0 U               | 1.0 U               | --          | 50 U                | 50 U                | 50 U                 | 50 U                  | 1.0 U           | 1.0 U                | 1.0 U           | 1.0 U            | 50 U             |
| X-10BR            | 26.3 - 31.3          | 12/15/06        | 1.0 U               | 1.0 U               | --          | 25 U                | 50 U                | 50 U                 | 25 UJ                 | 1.0 U           | 1.0 U                | 1.0 U           | 1.0 U            | 5.0 U            |
| X-4A              | 6.2 - 9.2            | 12/14/06        | 1.0 U               | 1.0 U               | --          | 25 U                | 50 U                | 50 U                 | 25 UJ                 | 1.0 U           | 1.0 U                | 1.0 U           | 1.0 U            | 5.0 U            |
| X-4AR             | 3.3 - 8.3            | 07/24/95        | 1.0 U               | 1.0 U               | --          | 50 UJ               | 50 U                | 50 U                 | 50 UJ                 | 1.0 U           | 1.0 U                | 1.0 U           | 1.0 U            | 50 U             |
| X-4AR             | 3.3 - 8.3            | 06/09/96        | 1.0 U               | 1.0 U               | --          | 50 U                | 50 U                | 50 U                 | 100 U                 | 5.0 U           | 1.0 U                | 1.0 U           | 1.0 U            | 50 U             |
| X-4AR             | 3.3 - 8.3            | 03/05/97        | --                  | --                  | --          | --                  | --                  | --                   | --                    | --              | --                   | --              | --               | --               |
| X-4CAUG           | 18 - 23              | 07/24/95        | 1.0 U               | 1.0 U               | --          | 50 UJ               | 50 U                | 50 U                 | 50 UJ                 | 1.0 U           | 1.0 U                | 1.0 U           | 1.0 U            | 50 U             |
| X-4CAUG           | 18 - 23              | 06/08/96        | 1.0 U               | 1.0 U               | --          | 50 U                | 50 U                | 50 U                 | 100 U                 | 5.0 U           | 1.0 U                | 1.0 U           | 1.0 U            | 50 U             |
| X-4CAUGR          | 18-23                | 09/28/16        | --                  | --                  | --          | --                  | --                  | --                   | --                    | --              | --                   | --              | --               | --               |
| X-4D              | 40 - 45              | 01/09/08        | 1.0 U               | 1.0 U               | --          | 25 U                | 50 U                | 50 U                 | 25 U                  | 1.0 U           | 1.0 U                | 1.0 UJ          | 1.0 U            | 5.0 U            |
| X-4D              | 40 - 45              | 04/02/08        | 1.0 U               | 1.0 U               | --          | 25 U                | 50 U                | 50 U                 | 25 U                  | 1.0 U           | 1.0 U                | 1.0 U           | 1.0 U            | 0.45 J           |
| X-4D              | 40 - 45              | 09/28/16        | --                  | --                  | --          | --                  | --                  | --                   | --                    | --              | --                   | --              | --               | --               |
| X-9AR             | 3 - 13               | 07/24/95        | 1.0 U               | 1.0 U               | --          | 50 UJ               | 50 U                | 50 U                 | 50 UJ                 | 1.0 U           | 1.0 U                | 1.0 U           | 1.0 U            | 50 U             |
| X-9AR             | 3 - 13               | 06/09/96        | 1.0 U               | 1.0 U               | --          | 50 U                | 50 U                | 50 U                 | 100 U                 | 5.0 U           | 1.0 U                | 1.0 U           | 1.0 U            | 50 U             |
| X-9AR             | 3 - 13               | 03/05/97        | --                  | --                  | --          | --                  | --                  | --                   | --                    | --              | --                   | --              | --               | --               |
| X-9AR             | 3 - 13               | 12/15/06        | 1.0 U               | 1.0 U               | --          | 25 U                | 50 U                | 50 U                 | 25 UJ                 | 1.0 U           | 1.0 U                | 1.0 U           | 1.0 U            | 5.0 U            |
| X-9AR             | 3 - 13               | 09/28/16        | --                  | --                  | --          | --                  | --                  | --                   | --                    | --              | --                   | --              | --               | --               |

Table 2  
Analytical Data Summary Table - GPL Organics  
Saginaw, MI  
RACER Trust



| Volatile Organics |                      |                 |                     |                     |             |            |            |                      |         |         |                      |           |              |                  |
|-------------------|----------------------|-----------------|---------------------|---------------------|-------------|------------|------------|----------------------|---------|---------|----------------------|-----------|--------------|------------------|
| Sample ID:        | Sample Depth (feet): | Date Collected: | 1,3-Dichlorobenzene | 1,4-Dichlorobenzene | 1,4-Dioxane | 2-Butanone | 2-Hexanone | 4-Methyl-2-pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromomethane | Carbon Disulfide |
| MDEQ GSI Criteria |                      |                 | 28                  | 17                  | 2,800 (X)   | 2,200      | ID         | ID                   | 1,700   | 200 (X) | ID                   | ID        | 35           | ID               |
| X-9BR             | 26 - 31              | 07/24/95        | 1.0 U               | 1.0 U               | --          | 50 UJ      | 50 U       | 50 U                 | 50 UJ   | 1.0 U   | 1.0 U                | 1.0 U     | 1.0 U        | 50 U             |
| X-9BR             | 26 - 31              | 06/08/96        | 1.0 U               | 1.0 U               | --          | 50 U       | 50 U       | 50 U                 | 100 U   | 5.0 U   | 1.0 U                | 1.0 U     | 1.0 U        | 50 U             |
| X-9BR             | 26 - 31              | 12/15/06        | 1.0 U               | 1.0 U               | --          | 25 U       | 50 U       | 50 U                 | 25 UJ   | 1.0 U   | 1.0 U                | 1.0 U     | 1.0 U        | 5.0 U            |
| X-9BR             | 26 - 31              | 09/28/16        | --                  | --                  | --          | --         | --         | --                   | --      | --      | --                   | --        | --           | --               |
| X-9CAUG           | 20 - 25              | 07/24/95        | 1.0 U               | 1.0 U               | --          | 50 UJ      | 50 U       | 50 U                 | 50 UJ   | 1.0 U   | 1.0 U                | 1.0 U     | 1.0 U        | 50 U             |
| X-9CAUG           | 20 - 25              | 06/08/96        | 1.0 U               | 1.0 U               | --          | 50 U       | 50 U       | 50 U                 | 100 U   | 5.0 U   | 1.0 U                | 1.0 U     | 1.0 U        | 50 U             |
| X-9CAUG           | 20 - 25              | 12/15/06        | 1.0 U               | 1.0 U               | --          | 25 U       | 50 U       | 50 U                 | 25 UJ   | 1.0 U   | 1.0 U                | 1.0 U     | 1.0 U        | 5.0 U            |
| X-9CAUG           | 20 - 25              | 09/28/16        | --                  | --                  | --          | --         | --         | --                   | --      | --      | --                   | --        | --           | --               |
| X-9D              | 42.5 - 47.5          | 01/08/08        | 1.0 U               | 1.0 U               | --          | 25 U       | 50 U       | 50 U                 | 25 U    | 1.0 U   | 1.0 U                | 1.0 UJ    | 1.0 U        | 5.0 U            |
| X-9D              | 42.5 - 47.5          | 03/11/08        | 1.0 U               | 1.0 U               | --          | 25 U       | 50 UJ      | 50 UJ                | 25 U    | 1.0 U   | 1.0 U                | 1.0 U     | 1.0 UJ       | 5.0 U            |
| X-9D              | 42.5 - 47.5          | 09/28/16        | --                  | --                  | --          | --         | --         | --                   | --      | --      | --                   | --        | --           | --               |

Table 2  
Analytical Data Summary Table - GPL Organics  
Saginaw, MI  
RACER Trust



| Volatile Organics |                      |                 |                      |               |                |               |               |                        |                         |             |                      |                |                         |                    |               |
|-------------------|----------------------|-----------------|----------------------|---------------|----------------|---------------|---------------|------------------------|-------------------------|-------------|----------------------|----------------|-------------------------|--------------------|---------------|
| Sample ID:        | Sample Depth (feet): | Date Collected: | Carbon Tetrachloride | Chlorobenzene | Chloroethane   | Chloroform    | Chloromethane | cis-1,2-Dichloroethene | cis-1,3-Dichloropropene | Cyclohexane | Dibromochloromethane | Dibromomethane | Dichlorodifluoromethane | Ethyl Methacrylate | Ethylbenzene  |
| MDEQ GSI Criteria |                      |                 | 45 (X)               | 25            | 1,100 (X)      | 350           | ID            | 620                    | --                      | --          | ID                   | --             | ID                      | --                 | 18            |
| MW-117S1          | 24.2 - 29.2          | 06/20/95        | 1.0 U                | 1.0 U         | 1.0 U          | 1.5           | 1.0 U         | 1.0 U                  | 1.0 U                   | --          | 1.0 U                | --             | --                      | --                 | 1.0 U         |
| MW-117S1          | 24.2 - 29.2          | 05/19/00        | 1.0 U                | 1.0 U         | 1.0 U          | 1.0 U         | 1.0 U         | 0.50 U                 | 1.0 U                   | --          | 1.0 U                | --             | --                      | --                 | 1.0 U         |
| MW-117S1          | 24.2 - 29.2          | 06/19/01        | 1.0 U                | 1.0 U         | 1.0 U          | 1.0 U         | 1.0 U         | 0.50 U                 | 1.0 U                   | --          | 1.0 U                | --             | --                      | --                 | 1.0 U         |
| MW-117S1          | 24.2 - 29.2          | 06/26/02        | 1.0 U                | 1.0 U         | 1.0 U          | 1.0 U         | 1.0 U         | 0.50 U                 | 1.0 U                   | 1.0 U       | 1.0 U                | --             | 1.0 U                   | --                 | 1.0 U         |
| MW-117S1          | 24.2 - 29.2          | 06/19/03        | 1.0 U                | 1.0 U         | 1.0 U          | 1.0 U         | 1.0 U         | 1.0 U                  | 1.0 U                   | --          | 1.0 U                | --             | --                      | --                 | 1.0 U         |
| MW-117S1          | 24.2 - 29.2          | 05/27/04        | 1.0 U                | 1.0 U         | 1.0 U          | 1.0 U         | 1.0 U         | 1.0 U                  | 1.0 U                   | --          | 1.0 U                | --             | --                      | --                 | 1.0 U         |
| MW-117S1          | 24.2 - 29.2          | 06/23/05        | 1.0 U                | 1.0 U         | 1.0 U          | 1.0 U         | 1.0 U         | 0.31 J                 | 1.0 U                   | --          | 1.0 U                | --             | --                      | --                 | 1.0 U         |
| MW-117S1          | 24.2 - 29.2          | 12/13/06        | 1.0 UJ               | 1.0 U         | 1.0 U          | 1.0 U         | 1.0 U         | 1.0 U                  | 1.0 U                   | 1.0 U       | 1.0 U                | --             | 1.0 UJ                  | --                 | 1.0 U         |
| MW-117S1          | 24.2 - 29.2          | 09/27/16        | --                   | --            | --             | --            | --            | --                     | --                      | --          | --                   | --             | --                      | --                 | --            |
| MW-117S2          | 35 - 40              | 06/20/95        | 1.0 U                | 1.0 U         | 1.0 U          | 1.0 U         | 1.0 U         | 1.0 U                  | 1.0 U                   | --          | 1.0 U                | --             | --                      | --                 | 1.0 U         |
| MW-117S2          | 35 - 40              | 05/20/00        | --                   | --            | --             | --            | --            | --                     | --                      | --          | --                   | --             | --                      | --                 | --            |
| MW-117S2          | 35 - 40              | 12/13/06        | 1.0 UJ               | 1.0 U         | 1.0 U          | 1.0 U         | 1.0 U         | 1.0 U                  | 1.0 U                   | 1.0 U       | 1.0 U                | --             | 1.0 UJ                  | --                 | 1.0 U         |
| MW-117WT          | 3 - 13               | 06/20/95        | 1.0 U                | 1.0 U         | 1.0 U          | 1.0 U         | 1.0 U         | 1.0 U                  | 1.0 U                   | --          | 1.0 U                | --             | --                      | --                 | 1.0 U         |
| MW-117WT          | 3 - 13               | 05/19/00        | 1.0 U                | 1.0 U         | 1.0 U          | 1.0 U         | 1.0 U         | 0.50 U                 | 1.0 U                   | --          | 1.0 U                | --             | --                      | --                 | 1.0 U         |
| MW-117WT          | 3 - 13               | 06/18/01        | 1.0 U                | 1.0 U         | 1.0 U          | 1.0 U         | 1.0 U         | 0.50 U                 | 1.0 U                   | --          | 1.0 U                | --             | --                      | --                 | 1.0 U         |
| MW-117WT          | 3 - 13               | 06/26/02        | 1.0 U                | 1.0 U         | 1.0 U          | 1.0 U         | 1.0 U         | 0.50 U                 | 1.0 U                   | 1.0 U       | 1.0 U                | --             | 1.0 U                   | --                 | 1.0 U         |
| MW-117WT          | 3 - 13               | 06/19/03        | 1.0 U                | 1.0 U         | 1.0 U          | 1.0 U         | 1.0 U         | 1.0 U                  | 1.0 U                   | --          | 1.0 U                | --             | --                      | --                 | 1.0 U         |
| MW-117WT          | 3 - 13               | 12/09/04        | 1.0 U [1.0 U]        | 1.0 U [1.0 U] | 0.28 J [1.0 U] | 1.0 U [1.0 U] | 1.0 U [1.0 U] | 1.0 U [1.0 U]          | 1.0 U [1.0 U]           | --          | 1.0 UJ [1.0 UJ]      | --             | --                      | --                 | 1.0 U [1.0 U] |
| MW-117WT          | 3 - 13               | 06/23/05        | 1.0 U                | 1.0 U         | 1.0 U          | 1.0 U         | 1.0 U         | 1.0 U                  | 1.0 U                   | --          | 1.0 U                | --             | --                      | --                 | 1.0 U         |
| MW-117WT          | 3 - 13               | 12/13/06        | 1.0 UJ               | 1.0 U         | 1.0 U          | 1.0 U         | 1.0 U         | 1.0 U                  | 1.0 U                   | 1.0 U       | 1.0 U                | --             | 1.0 UJ                  | --                 | 1.0 U         |
| MW-117WT          | 3 - 13               | 09/27/16        | --                   | --            | --             | --            | --            | --                     | --                      | --          | --                   | --             | --                      | --                 | --            |
| MW-117WT          | 3 - 13               | 10/13/16        | --                   | --            | --             | --            | --            | --                     | --                      | --          | --                   | --             | --                      | --                 | --            |
| MW-118S1          | 23.5 - 28.5          | 06/20/95        | 1.0 U                | 1.0 U         | 1.0 U          | 1.1           | 1.0 U         | 1.0 U                  | 1.0 U                   | --          | 1.0 U                | --             | --                      | --                 | 1.0 U         |
| MW-118S1          | 23.5 - 28.5          | 05/17/00        | 1.0 U [1.0 U]        | 1.0 U [1.0 U] | 1.0 U [1.0 U]  | 1.0 U [1.0 U] | 1.0 U [1.0 U] | 0.50 U [0.50 U]        | 1.0 U [1.0 U]           | --          | 1.0 U [1.0 U]        | --             | --                      | --                 | 1.0 U [1.0 U] |
| MW-118S1          | 23.5 - 28.5          | 06/19/01        | 1.0 U                | 1.0 U         | 1.0 U          | 1.0 U         | 1.0 U         | 0.50 U                 | 1.0 U                   | --          | 1.0 U                | --             | --                      | --                 | 1.0 U         |
| MW-118S1          | 23.5 - 28.5          | 06/27/02        | 1.0 U                | 1.0 U         | 1.0 U          | 1.0 U         | 1.0 U         | 0.50 U                 | 1.0 U                   | 1.0 U       | 1.0 U                | --             | 1.0 U                   | --                 | 1.0 U         |
| MW-118S1          | 23.5 - 28.5          | 06/19/03        | 1.0 U                | 1.0 U         | 1.0 U          | 1.0 U         | 1.0 U         | 1.0 U                  | 1.0 U                   | --          | 1.0 U                | --             | --                      | --                 | 1.0 U         |
| MW-118S1          | 23.5 - 28.5          | 12/09/04        | 1.0 U                | 1.0 U         | 1.0 U          | 1.0 U         | 1.0 U         | --                     | 1.0 U                   | --          | 1.0 UJ               | --             | --                      | --                 | 1.0 U         |
| MW-118S1          | 23.5 - 28.5          | 06/23/05        | 1.0 U                | 1.0 U         | 1.0 U          | 1.0 U         | 1.0 U         | 0.25 J                 | 1.0 U                   | --          | 1.0 U                | --             | --                      | --                 | 1.0 U         |
| MW-118S1          | 23.5 - 28.5          | 12/14/06        | 1.0 U                | 1.0 U         | 1.0 U          | 1.0 U         | 1.0 U         | 1.0 U                  | 1.0 U                   | 1.0 U       | 1.0 U                | --             | 1.0 UJ                  | --                 | 1.0 U         |
| MW-118S1          | 23.5 - 28.5          | 09/27/16        | --                   | --            | --             | --            | --            | --                     | --                      | --          | --                   | --             | --                      | --                 | --            |
| MW-118S2          | 38.5 - 43.5          | 06/20/95        | 1.0 U [1.0 U]        | 1.0 U [1.0 U] | 1.0 U [1.0 U]  | 3.7 [1.2]     | 1.0 U [1.0 U] | 1.0 U [1.0 U]          | 1.0 U [1.0 U]           | --          | 1.0 U [1.0 U]        | --             | --                      | --                 | 1.0 U [1.0 U] |
| MW-118S2          | 38.5 - 43.5          | 12/14/06        | 1.0 U                | 1.0 U         | 1.0 U          | 1.0 U         | 1.0 U         | 1.0 U                  | 1.0 U                   | 1.0 U       | 1.0 U                | --             | 1.0 UJ                  | --                 | 1.0 U         |

Table 2  
Analytical Data Summary Table - GPL Organics  
Saginaw, MI  
RACER Trust



| Volatile Organics |                      |                 |                      |                 |                  |                 |                  |                        |                         |               |                      |                |                         |                    |                 |
|-------------------|----------------------|-----------------|----------------------|-----------------|------------------|-----------------|------------------|------------------------|-------------------------|---------------|----------------------|----------------|-------------------------|--------------------|-----------------|
| Sample ID:        | Sample Depth (feet): | Date Collected: | Carbon Tetrachloride | Chlorobenzene   | Chloroethane     | Chloroform      | Chloromethane    | cis-1,2-Dichloroethene | cis-1,3-Dichloropropene | Cyclohexane   | Dibromochloromethane | Dibromomethane | Dichlorodifluoromethane | Ethyl Methacrylate | Ethylbenzene    |
| MDEQ GSI Criteria |                      |                 | 45 (X)               | 25              | 1,100 (X)        | 350             | ID               | 620                    | --                      | --            | ID                   | --             | ID                      | --                 | 18              |
| MW-118WT          | 1.6 - 11.6           | 06/20/95        | 1.0 U                | 1.0 U           | 1.0 U            | 1.0 U           | 1.0 U            | 1.0 U                  | 1.0 U                   | --            | 1.0 U                | --             | --                      | --                 | 1.0 U           |
| MW-118WT          | 1.6 - 11.6           | 05/17/00        | 1.0 U                | 1.0 U           | 1.0 U            | 1.0 U           | 1.0 U            | 0.50 U                 | 1.0 U                   | --            | 1.0 U                | --             | --                      | --                 | 0.10 J          |
| MW-118WT          | 1.6 - 11.6           | 06/19/01        | 4.0 U [4.0 U]        | 4.0 U [4.0 U]   | 4.0 U [4.0 U]    | 4.0 U [4.0 U]   | 4.0 U [4.0 U]    | 2.0 U [2.0 U]          | 4.0 U [4.0 U]           | --            | 4.0 U [4.0 U]        | --             | --                      | --                 | 4.0 U [4.0 U]   |
| MW-118WT          | 1.6 - 11.6           | 06/27/02        | 2.0 U [1.0 U]        | 2.0 U [1.0 U]   | 2.0 U [1.0 U]    | 2.0 U [1.0 U]   | 2.0 U [1.0 U]    | 1.0 U [0.50 U]         | 2.0 U [1.0 U]           | 2.0 U [1.0 U] | 2.0 U [1.0 U]        | --             | 2.0 U [1.0 U]           | --                 | 2.0 U [1.0 U]   |
| MW-118WT          | 1.6 - 11.6           | 06/19/03        | 1.0 U [1.0 U]        | 1.0 U [1.0 U]   | 1.0 U [1.0 U]    | 1.0 U [1.0 U]   | 1.0 U [1.0 U]    | 1.0 U [1.0 U]          | 1.0 U [1.0 U]           | --            | 1.0 U [1.0 U]        | --             | --                      | --                 | 1.0 U [1.0 U]   |
| MW-118WT          | 1.6 - 11.6           | 05/27/04        | 1.7 U                | 1.7 U           | 1.7 U            | 1.7 U           | 1.7 U            | 1.7 U                  | 1.7 U                   | --            | 1.7 U                | --             | --                      | --                 | 1.7 U           |
| MW-118WT          | 1.6 - 11.6           | 06/23/05        | 1.0 U                | 1.0 U           | 1.0 U            | 1.0 U           | 1.0 U            | 1.0 U                  | 1.0 U                   | --            | 1.0 U                | --             | --                      | --                 | 1.0 U           |
| MW-118WT          | 1.6 - 11.6           | 12/14/06        | 1.0 U                | 1.0 U           | 1.0 U            | 1.0 U           | 1.0 U            | 1.0 U                  | 1.0 U                   | 1.0 U         | 1.0 U                | --             | 1.0 UJ                  | --                 | 1.0 U           |
| MW-118WT          | 1.6 - 11.6           | 09/27/16        | --                   | --              | --               | --              | --               | --                     | --                      | --            | --                   | --             | --                      | --                 | --              |
| MW-183WT          | 6 - 16               | 08/17/00        | --                   | --              | --               | --              | --               | --                     | --                      | --            | --                   | --             | --                      | --                 | --              |
| MW-183WT          | 6 - 16               | 09/28/16        | --                   | --              | --               | --              | --               | --                     | --                      | --            | --                   | --             | --                      | --                 | --              |
| TWW-1             | 1.5 - 6.5            | 01/25/97        | 330 U                | 330 U           | 330 U            | 330 U           | 330 U            | 9,600                  | 330 U                   | --            | 330 U                | --             | --                      | --                 | 330 U           |
| TWW-1             | 1.5 - 6.5            | 08/08/98        | 200 U                | 200 U           | 200 U            | 200 U           | 200 U            | --                     | 200 U                   | --            | 200 U                | --             | --                      | --                 | 200 U           |
| TWW-1             | 1.5 - 6.5            | 05/18/99        | 250 UD [250 UD]      | 250 UD [250 UD] | 250 UJD [250 UD] | 250 UD [250 UD] | 250 UJD [250 UD] | --                     | 250 UD [250 UD]         | --            | 250 UD [250 UD]      | --             | --                      | --                 | 250 UD [250 UD] |
| TWW-1             | 1.5 - 6.5            | 05/21/00        | 250 U                | 250 U           | 250 U            | 250 U           | 250 U            | 8,800                  | 250 U                   | --            | 250 U                | --             | --                      | --                 | 250 U           |
| TWW-1             | 1.5 - 6.5            | 09/29/10        | 71 U                 | 71 U            | 71 U             | 71 U            | 71 U             | 230                    | 71 U                    | 71 U          | 71 U                 | --             | 71 U                    | --                 | 71 U            |
| TWW-1             | 1.5 - 6.5            | 09/21/11        | 77 U [77 U]          | 77 U [77 U]     | 77 U [77 U]      | 77 U [77 U]     | 77 U [77 U]      | 1,800 [1,800]          | 77 U [77 U]             | 77 U [77 U]   | 77 U [77 U]          | --             | 77 U [77 U]             | --                 | 77 U [77 U]     |
| TWW-1             | 1.5 - 6.5            | 09/14/12        | 4.0 U [4.0 U]        | 4.0 U [4.0 U]   | 4.0 U [4.0 U]    | 4.0 U [4.0 U]   | 4.0 U [4.0 U]    | 190 [200]              | 4.0 U [4.0 U]           | 4.0 U [4.0 U] | 4.0 U [4.0 U]        | --             | 4.0 U [4.0 U]           | --                 | 4.0 U [4.0 U]   |
| TWW-1             | 1.5 - 6.5            | 09/24/13        | 18 U [20 U]          | 18 U [20 U]     | 18 U [20 U]      | 18 U [20 U]     | 18 U [20 U]      | 45 [41]                | 18 U [20 U]             | 18 U [20 U]   | 18 U [20 U]          | --             | 18 U [20 U]             | --                 | 18 U [20 U]     |
| TWW-1             | 1.5 - 6.5            | 09/23/14        | 25 U [25 U]          | 25 U [25 U]     | 25 U [25 U]      | 25 U [25 U]     | 25 U [25 U]      | 20 J [21 J]            | 25 U [25 U]             | 25 U [25 U]   | 25 U [25 U]          | 5.0 U [5.0 U]  | 25 U [25 U]             | --                 | 25 U [25 U]     |
| TWW-1             | 1.5 - 6.5            | 10/01/15        | 5.0 U [5.0 U]        | 5.0 U [5.0 U]   | 5.0 U [5.0 U]    | 5.0 U [5.0 U]   | 5.0 U [5.0 U]    | 1.7 J [5.0 U]          | 5.0 U [5.0 U]           | 5.0 U [5.0 U] | 5.0 U [5.0 U]        | 5.0 U [5.0 U]  | 5.0 U [5.0 U]           | 5.0 U [5.0 U]      | 5.0 U [5.0 U]   |
| TWW-1             | 1.5 - 6.5            | 09/27/16        | < 10 U               | < 10 U          | < 10 U           | < 10 U          | < 10 U           | 2.9 J                  | < 10 U                  | < 10 U        | < 10 U               | --             | < 10 U                  | --                 | < 10 U          |
| TWW-1 Dup         | 1.5 - 6.5            | 09/27/16        | < 7.7 U              | < 7.7 U         | < 7.7 U          | < 7.7 U         | < 7.7 U          | 3.0 J                  | < 7.7 U                 | < 7.7 U       | < 7.7 U              | --             | < 7.7 U                 | --                 | < 7.7 U         |
| X-10BR            | 26.3 - 31.3          | 07/24/95        | 1.0 U                | 1.0 U           | 1.0 U            | 1.0 U           | 1.0 U            | 1.0 U                  | 1.0 U                   | --            | 1.0 U                | --             | --                      | --                 | 1.0 U           |
| X-10BR            | 26.3 - 31.3          | 12/15/06        | 1.0 U                | 1.0 U           | 1.0 U            | 1.0 U           | 1.0 U            | 1.0 U                  | 1.0 U                   | 1.0 U         | 1.0 U                | --             | 1.0 UJ                  | --                 | 1.0 U           |
| X-4A              | 6.2 - 9.2            | 12/14/06        | 1.0 U                | 1.0 U           | 1.0 U            | 1.0 U           | 1.0 U            | 1.0 U                  | 1.0 U                   | 1.0 U         | 1.0 U                | --             | 1.0 UJ                  | --                 | 1.0 U           |
| X-4AR             | 3.3 - 8.3            | 07/24/95        | 1.0 U                | 1.0 U           | 1.0 U            | 1.0 U           | 1.0 U            | 1.0 U                  | 1.0 U                   | --            | 1.0 U                | --             | --                      | --                 | 1.0 U           |
| X-4AR             | 3.3 - 8.3            | 06/09/96        | 1.0 U                | 1.0 U           | 1.0 U            | 1.0 U           | 1.0 U            | 1.0 U                  | 1.0 U                   | --            | 1.0 U                | --             | --                      | --                 | 1.0 U           |
| X-4AR             | 3.3 - 8.3            | 03/05/97        | --                   | --              | --               | --              | --               | --                     | --                      | --            | --                   | --             | --                      | --                 | --              |
| X-4CAUG           | 18 - 23              | 07/24/95        | 1.0 U                | 1.0 U           | 1.0 U            | 1.0 U           | 1.0 U            | 1.0 U                  | 1.0 U                   | --            | 1.0 U                | --             | --                      | --                 | 1.0 U           |
| X-4CAUG           | 18 - 23              | 06/08/96        | 1.0 U                | 1.0 U           | 1.0 U            | 1.0 U           | 1.0 U            | 1.0 U                  | 1.0 U                   | --            | 1.0 U                | --             | --                      | --                 | 1.0 U           |
| X-4CAUGR          | 18-23                | 09/28/16        | --                   | --              | --               | --              | --               | --                     | --                      | --            | --                   | --             | --                      | --                 | --              |
| X-4D              | 40 - 45              | 01/09/08        | 1.0 U                | 1.0 U           | 1.0 U            | 1.0 U           | 1.0 U            | 1.0 U                  | 1.0 U                   | 1.0 U         | 1.0 U                | --             | 1.0 U                   | --                 | 1.0 U           |
| X-4D              | 40 - 45              | 04/02/08        | 1.0 U                | 1.0 U           | 1.0 U            | 1.0 U           | 1.0 U            | 1.0 U                  | 1.0 U                   | 1.0 U         | 1.0 U                | --             | 1.0 U                   | --                 | 1.0 U           |
| X-4D              | 40 - 45              | 09/28/16        | --                   | --              | --               | --              | --               | --                     | --                      | --            | --                   | --             | --                      | --                 | --              |
| X-9AR             | 3 - 13               | 07/24/95        | 1.0 U                | 1.0 U           | 1.0 U            | 1.0 U           | 1.0 U            | 1.0 U                  | 1.0 U                   | --            | 1.0 U                | --             | --                      | --                 | 1.0 U           |
| X-9AR             | 3 - 13               | 06/09/96        | 1.0 U                | 1.0 U           | 1.0 U            | 1.0 U           | 1.0 U            | 1.0 U                  | 1.0 U                   | --            | 1.0 U                | --             | --                      | --                 | 1.0 U           |
| X-9AR             | 3 - 13               | 03/05/97        | --                   | --              | --               | --              | --               | --                     | --                      | --            | --                   | --             | --                      | --                 | --              |
| X-9AR             | 3 - 13               | 12/15/06        | 1.0 U                | 1.0 U           | 1.0 U            | 1.0 U           | 1.0 U            | 1.0 U                  | 1.0 U                   | 1.0 U         | 1.0 U                | --             | 1.0 UJ                  | --                 | 1.0 U           |
| X-9AR             | 3 - 13               | 09/28/16        | --                   | --              | --               | --              | --               | --                     | --                      | --            | --                   | --             | --                      | --                 | --              |

Table 2  
Analytical Data Summary Table - GPL Organics  
Saginaw, MI  
RACER Trust



| Volatile Organics |                      |                 |                      |               |              |            |               |                        |                         |             |                      |                |                         |                    |              |
|-------------------|----------------------|-----------------|----------------------|---------------|--------------|------------|---------------|------------------------|-------------------------|-------------|----------------------|----------------|-------------------------|--------------------|--------------|
| Sample ID:        | Sample Depth (feet): | Date Collected: | Carbon Tetrachloride | Chlorobenzene | Chloroethane | Chloroform | Chloromethane | cis-1,2-Dichloroethene | cis-1,3-Dichloropropene | Cyclohexane | Dibromochloromethane | Dibromomethane | Dichlorodifluoromethane | Ethyl Methacrylate | Ethylbenzene |
| MDEQ GSI Criteria |                      |                 | 45 (X)               | 25            | 1,100 (X)    | 350        | ID            | 620                    | --                      | --          | ID                   | --             | ID                      | --                 | 18           |
| X-9BR             | 26 - 31              | 07/24/95        | 1.0 U                | 1.0 U         | 1.0 U        | 1.0 U      | 1.0 U         | 1.0 U                  | 1.0 U                   | --          | 1.0 U                | --             | --                      | --                 | 1.0 U        |
| X-9BR             | 26 - 31              | 06/08/96        | 1.0 U                | 1.0 U         | 1.0 U        | 1.0 U      | 1.0 U         | 1.0 U                  | 1.0 U                   | --          | 1.0 U                | --             | --                      | --                 | 1.0 U        |
| X-9BR             | 26 - 31              | 12/15/06        | 1.0 U                | 1.0 U         | 1.0 U        | 1.0 U      | 1.0 U         | 1.0 U                  | 1.0 U                   | 1.0 U       | 1.0 U                | --             | 1.0 UJ                  | --                 | 1.0 U        |
| X-9BR             | 26 - 31              | 09/28/16        | --                   | --            | --           | --         | --            | --                     | --                      | --          | --                   | --             | --                      | --                 | --           |
| X-9CAUG           | 20 - 25              | 07/24/95        | 1.0 U                | 1.0 U         | 1.0 U        | 1.0 U      | 1.0 U         | 1.0 U                  | 1.0 U                   | --          | 1.0 U                | --             | --                      | --                 | 1.0 U        |
| X-9CAUG           | 20 - 25              | 06/08/96        | 1.0 U                | 1.0 U         | 1.0 U        | 1.0 U      | 1.0 U         | 1.0 U                  | 1.0 U                   | --          | 1.0 U                | --             | --                      | --                 | 1.0 U        |
| X-9CAUG           | 20 - 25              | 12/15/06        | 1.0 U                | 1.0 U         | 1.0 U        | 1.0 U      | 1.0 U         | 1.0 U                  | 1.0 U                   | 1.0 U       | 1.0 U                | --             | 1.0 UJ                  | --                 | 1.0 U        |
| X-9CAUG           | 20 - 25              | 09/28/16        | --                   | --            | --           | --         | --            | --                     | --                      | --          | --                   | --             | --                      | --                 | --           |
| X-9D              | 42.5 - 47.5          | 01/08/08        | 1.0 U                | 1.0 U         | 1.0 U        | 1.0 U      | 1.0 U         | 1.0 U                  | 1.0 U                   | 1.0 U       | 1.0 U                | --             | 1.0 U                   | --                 | 1.0 U        |
| X-9D              | 42.5 - 47.5          | 03/11/08        | 1.0 U                | 1.0 U         | 1.0 U        | 1.0 U      | 1.0 U         | 1.0 U                  | 1.0 U                   | 1.0 U       | 1.0 U                | --             | 1.0 U                   | --                 | 1.0 U        |
| X-9D              | 42.5 - 47.5          | 09/28/16        | --                   | --            | --           | --         | --            | --                     | --                      | --          | --                   | --             | --                      | --                 | --           |

Table 2  
Analytical Data Summary Table - GPL Organics  
Saginaw, MI  
RACER Trust



| Volatile Organics |                      |                 |                      |             |            |                  |            |                    |                |                    |                         |                    |          |               |                   |                |                           |
|-------------------|----------------------|-----------------|----------------------|-------------|------------|------------------|------------|--------------------|----------------|--------------------|-------------------------|--------------------|----------|---------------|-------------------|----------------|---------------------------|
| Sample ID:        | Sample Depth (feet): | Date Collected: | Hexachloro butadiene | Iodomethane | Isobutanol | Isopropylbenzene | m&p-Xylene | Methacrylonitril e | Methyl acetate | Methyl cyclohexane | Methyl tert-butyl ether | Methylene Chloride | o-Xylene | Styrene       | Tetrachloroethene | Toluene        | trans-1,2-Dichloroethen e |
| MDEQ GSI Criteria |                      |                 | --                   | --          | --         | 28               | 41         | --                 | --             | --                 | 7,100 (X)               | 1,500 (X)          | 41       | 80 (X)        | --                | 270            | 1,500 (X)                 |
| MW-117S1          | 24.2 - 29.2          | 06/20/95        | --                   | --          | --         | --               | --         | --                 | --             | --                 | --                      | 1.0 U              | --       | 1.0 U         | 1.0 U             | 1.0 U          | 1.0 U                     |
| MW-117S1          | 24.2 - 29.2          | 05/19/00        | --                   | --          | --         | --               | --         | --                 | --             | --                 | --                      | 1.0 U              | --       | 1.0 U         | 1.0 U             | 1.0 U          | 0.50 U                    |
| MW-117S1          | 24.2 - 29.2          | 06/19/01        | --                   | --          | --         | --               | --         | --                 | --             | --                 | --                      | 1.0 U              | --       | 1.0 U         | 1.0 U             | 1.0 U          | 0.50 U                    |
| MW-117S1          | 24.2 - 29.2          | 06/26/02        | --                   | --          | --         | 1.0 U            | --         | --                 | 10 U           | 1.0 U              | 5.0 U                   | 1.0 U              | --       | 1.0 U         | 1.0 U             | 1.0 U          | 0.50 U                    |
| MW-117S1          | 24.2 - 29.2          | 06/19/03        | --                   | --          | --         | --               | --         | --                 | --             | --                 | --                      | 1.0 U              | --       | 1.0 U         | 1.0 U             | 1.0 U          | 1.0 U                     |
| MW-117S1          | 24.2 - 29.2          | 05/27/04        | --                   | --          | --         | --               | --         | --                 | --             | --                 | --                      | 1.0 UJ             | --       | 1.0 U         | 1.0 U             | 1.0 U          | 1.0 U                     |
| MW-117S1          | 24.2 - 29.2          | 06/23/05        | --                   | --          | --         | --               | --         | --                 | --             | --                 | --                      | 5.0 U              | --       | 1.0 U         | 1.0 U             | 1.0 U          | 1.0 U                     |
| MW-117S1          | 24.2 - 29.2          | 12/13/06        | --                   | --          | --         | 5.0 U            | --         | --                 | 10 U           | 1.0 U              | 5.0 U                   | 5.0 U              | --       | 1.0 U         | 1.0 U             | 1.0 U          | 1.0 U                     |
| MW-117S1          | 24.2 - 29.2          | 09/27/16        | --                   | --          | --         | --               | --         | --                 | --             | --                 | --                      | --                 | --       | --            | --                | --             | --                        |
| MW-117S2          | 35 - 40              | 06/20/95        | --                   | --          | --         | --               | --         | --                 | --             | --                 | --                      | 1.0 U              | --       | 1.0 U         | 1.0 U             | 1.0 U          | 1.0 U                     |
| MW-117S2          | 35 - 40              | 05/20/00        | --                   | --          | --         | --               | --         | --                 | --             | --                 | --                      | --                 | --       | --            | --                | --             | --                        |
| MW-117S2          | 35 - 40              | 12/13/06        | --                   | --          | --         | 5.0 U            | --         | --                 | 10 U           | 1.0 U              | 5.0 U                   | 5.0 U              | --       | 1.0 U         | 1.0 U             | 1.0 U          | 1.0 U                     |
| MW-117WT          | 3 - 13               | 06/20/95        | --                   | --          | --         | --               | --         | --                 | --             | --                 | --                      | 1.0 U              | --       | 1.0 U         | 1.0 U             | 1.0 U          | 1.0 U                     |
| MW-117WT          | 3 - 13               | 05/19/00        | --                   | --          | --         | --               | --         | --                 | --             | --                 | --                      | 1.0 U              | --       | 1.0 U         | 1.0 U             | 1.0 U          | 0.50 U                    |
| MW-117WT          | 3 - 13               | 06/18/01        | --                   | --          | --         | --               | --         | --                 | --             | --                 | --                      | 1.0 U              | --       | 1.0 U         | 1.0 U             | 1.0 U          | 0.50 U                    |
| MW-117WT          | 3 - 13               | 06/26/02        | --                   | --          | --         | 1.0 U            | --         | --                 | 10 U           | 1.0 U              | 0.38 J                  | 1.0 U              | --       | 1.0 U         | 1.0 U             | 1.0 U          | 0.50 U                    |
| MW-117WT          | 3 - 13               | 06/19/03        | --                   | --          | --         | --               | --         | --                 | --             | --                 | --                      | 1.0 U              | --       | 1.0 U         | 1.0 U             | 1.0 U          | 1.0 U                     |
| MW-117WT          | 3 - 13               | 12/09/04        | --                   | --          | --         | --               | --         | --                 | --             | --                 | --                      | 5.0 U [5.0 U]      | --       | 1.0 U [1.0 U] | 1.0 U [1.0 U]     | 1.0 U [1.0 U]  | 1.0 U [1.0 U]             |
| MW-117WT          | 3 - 13               | 06/23/05        | --                   | --          | --         | --               | --         | --                 | --             | --                 | --                      | 5.0 U              | --       | 1.0 U         | 1.0 U             | 1.0 U          | 1.0 U                     |
| MW-117WT          | 3 - 13               | 12/13/06        | --                   | --          | --         | 5.0 U            | --         | --                 | 10 U           | 1.0 U              | 0.20 J                  | 5.0 U              | --       | 1.0 U         | 1.0 U             | 1.0 U          | 1.0 U                     |
| MW-117WT          | 3 - 13               | 09/27/16        | --                   | --          | --         | --               | --         | --                 | --             | --                 | --                      | --                 | --       | --            | --                | --             | --                        |
| MW-117WT          | 3 - 13               | 10/13/16        | --                   | --          | --         | --               | --         | --                 | --             | --                 | --                      | --                 | --       | --            | --                | --             | --                        |
| MW-118S1          | 23.5 - 28.5          | 06/20/95        | --                   | --          | --         | --               | --         | --                 | --             | --                 | --                      | 1.0 U              | --       | 1.0 U         | 1.0 U             | 0.90 J         | 1.0 U                     |
| MW-118S1          | 23.5 - 28.5          | 05/17/00        | --                   | --          | --         | --               | --         | --                 | --             | --                 | --                      | 1.0 U [1.0 U]      | --       | 1.0 U [1.0 U] | 1.0 U [1.0 U]     | 1.0 U [1.0 U]  | 0.50 U [0.50 U]           |
| MW-118S1          | 23.5 - 28.5          | 06/19/01        | --                   | --          | --         | --               | --         | --                 | --             | --                 | --                      | 1.0 U              | --       | 1.0 U         | 1.0 U             | 1.0 U          | 0.50 U                    |
| MW-118S1          | 23.5 - 28.5          | 06/27/02        | --                   | --          | --         | 1.0 U            | --         | --                 | 10 U           | 1.0 U              | 5.0 U                   | 1.0 U              | --       | 1.0 U         | 1.0 U             | 1.0 U          | 0.50 U                    |
| MW-118S1          | 23.5 - 28.5          | 06/19/03        | --                   | --          | --         | --               | --         | --                 | --             | --                 | --                      | 1.0 U              | --       | 1.0 U         | 1.0 U             | 1.0 U          | 1.0 U                     |
| MW-118S1          | 23.5 - 28.5          | 12/09/04        | --                   | --          | --         | --               | --         | --                 | --             | --                 | --                      | 5.0 U              | --       | 1.0 U         | 1.0 U             | 1.0 U          | --                        |
| MW-118S1          | 23.5 - 28.5          | 06/23/05        | --                   | --          | --         | --               | --         | --                 | --             | --                 | --                      | 5.0 U              | --       | 1.0 U         | 1.0 U             | 1.0 U          | 1.0 U                     |
| MW-118S1          | 23.5 - 28.5          | 12/14/06        | --                   | --          | --         | 5.0 U            | --         | --                 | 10 U           | 1.0 U              | 5.0 U                   | 5.0 U              | --       | 1.0 U         | 1.0 U             | 1.0 U          | 1.0 U                     |
| MW-118S1          | 23.5 - 28.5          | 09/27/16        | --                   | --          | --         | --               | --         | --                 | --             | --                 | --                      | --                 | --       | --            | --                | --             | --                        |
| MW-118S2          | 38.5 - 43.5          | 06/20/95        | --                   | --          | --         | --               | --         | --                 | --             | --                 | --                      | 1.0 U [1.0 U]      | --       | 1.0 U [1.0 U] | 1.0 U [1.0 U]     | 0.70 J [1.0 U] | 1.0 U [1.0 U]             |
| MW-118S2          | 38.5 - 43.5          | 12/14/06        | --                   | --          | --         | 5.0 U            | --         | --                 | 10 U           | 1.0 U              | 5.0 U                   | 5.0 U              | --       | 1.0 U         | 1.0 U             | 1.0 U          | 1.0 U                     |



Table 2  
Analytical Data Summary Table - GPL Organics  
Saginaw, MI  
RACER Trust



| Volatile Organics |                      |                 |                      |               |               |                  |               |                    |                |                    |                         |                       |                 |                 |                   |                 |                           |
|-------------------|----------------------|-----------------|----------------------|---------------|---------------|------------------|---------------|--------------------|----------------|--------------------|-------------------------|-----------------------|-----------------|-----------------|-------------------|-----------------|---------------------------|
| Sample ID:        | Sample Depth (feet): | Date Collected: | Hexachloro butadiene | Iodomethane   | Isobutanol    | Isopropylbenzene | m&p-Xylene    | Methacrylonitril e | Methyl acetate | Methyl cyclohexane | Methyl tert-butyl ether | Methylene Chloride    | o-Xylene        | Styrene         | Tetrachloroethene | Toluene         | trans-1,2-Dichloroethen e |
| MDEQ GSI Criteria |                      |                 | --                   | --            | --            | 28               | 41            | --                 | --             | --                 | 7,100 (X)               | 1,500 (X)             | 41              | 80 (X)          | --                | 270             | 1,500 (X)                 |
| MW-118WT          | 1.6 - 11.6           | 06/20/95        | --                   | --            | --            | --               | --            | --                 | --             | --                 | --                      | 1.0 U                 | --              | 1.0 U           | 1.0 U             | 1.0 U           | 1.0 U                     |
| MW-118WT          | 1.6 - 11.6           | 05/17/00        | --                   | --            | --            | --               | --            | --                 | --             | --                 | --                      | 1.0 U                 | --              | 1.0 U           | 1.0 U             | 1.0 U           | 0.50 U                    |
| MW-118WT          | 1.6 - 11.6           | 06/19/01        | --                   | --            | --            | --               | --            | --                 | --             | --                 | --                      | 4.0 U [4.0 U]         | --              | 4.0 U [4.0 U]   | 4.0 U [4.0 U]     | 4.0 U [4.0 U]   | 2.0 U [2.0 U]             |
| MW-118WT          | 1.6 - 11.6           | 06/27/02        | --                   | --            | --            | 2.0 U [1.0 U]    | --            | --                 | 20 U [10 U]    | 2.0 U [1.0 U]      | 0.49 J [5.0 U]          | 2.0 U [1.0 U]         | --              | 2.0 U [1.0 U]   | 2.0 U [1.0 U]     | 2.0 U [1.0 U]   | 1.0 U [0.50 U]            |
| MW-118WT          | 1.6 - 11.6           | 06/19/03        | --                   | --            | --            | --               | --            | --                 | --             | --                 | --                      | 1.0 U [1.0 U]         | --              | 1.0 U [1.0 U]   | 1.0 U [1.0 U]     | 1.0 U [1.0 U]   | 1.0 U [1.0 U]             |
| MW-118WT          | 1.6 - 11.6           | 05/27/04        | --                   | --            | --            | --               | --            | --                 | --             | --                 | --                      | 1.7 UJ                | --              | 1.7 U           | 1.7 U             | 1.7 U           | 1.7 U                     |
| MW-118WT          | 1.6 - 11.6           | 06/23/05        | --                   | --            | --            | --               | --            | --                 | --             | --                 | --                      | 5.0 U                 | --              | 1.0 U           | 1.0 U             | 0.20 J          | 1.0 U                     |
| MW-118WT          | 1.6 - 11.6           | 12/14/06        | --                   | --            | --            | 0.62 J           | --            | --                 | 10 U           | 1.0 U              | 0.31 J                  | 5.0 U                 | --              | 1.0 U           | 1.0 U             | 1.0 U           | 1.0 U                     |
| MW-118WT          | 1.6 - 11.6           | 09/27/16        | --                   | --            | --            | --               | --            | --                 | --             | --                 | --                      | --                    | --              | --              | --                | --              | --                        |
| MW-183WT          | 6 - 16               | 08/17/00        | --                   | --            | --            | --               | --            | --                 | --             | --                 | --                      | --                    | --              | --              | --                | --              | --                        |
| MW-183WT          | 6 - 16               | 09/28/16        | --                   | --            | --            | --               | --            | --                 | --             | --                 | --                      | --                    | --              | --              | --                | --              | --                        |
| TWW-1             | 1.5 - 6.5            | 01/25/97        | --                   | --            | --            | --               | --            | --                 | --             | --                 | --                      | 1,700 U               | --              | 330 U           | 330 U             | 330 U           | 330 U                     |
| TWW-1             | 1.5 - 6.5            | 08/08/98        | --                   | --            | --            | --               | --            | --                 | --             | --                 | --                      | 1,000 U               | --              | 200 U           | 200 U             | 200 U           | --                        |
| TWW-1             | 1.5 - 6.5            | 05/18/99        | --                   | --            | --            | --               | 00 UD [500 U] | --                 | --             | --                 | --                      | 1,300 UJD [1,300 UJD] | 250 UD [250 UD] | 250 UD [250 UD] | 250 UD [250 UD]   | 250 UD [250 UD] | --                        |
| TWW-1             | 1.5 - 6.5            | 05/21/00        | --                   | --            | --            | --               | --            | --                 | --             | --                 | --                      | 250 U                 | --              | 250 U           | 250 U             | 250 U           | 40 J                      |
| TWW-1             | 1.5 - 6.5            | 09/29/10        | --                   | --            | --            | 360 U            | --            | --                 | 710 U          | 71 U               | 360 U                   | 360 U                 | --              | 71 U            | 71 U              | 71 U            | 71 U                      |
| TWW-1             | 1.5 - 6.5            | 09/21/11        | --                   | --            | --            | 77 U [77 U]      | --            | --                 | 770 U [770 U]  | 77 U [77 U]        | 380 U [380 U]           | 77 U [77 U]           | --              | 77 U [77 U]     | 77 U [77 U]       | 77 U [77 U]     | <b>19 [18]</b>            |
| TWW-1             | 1.5 - 6.5            | 09/14/12        | --                   | --            | --            | 4.0 U [4.0 U]    | --            | --                 | 4.0 U [4.0 U]  | 4.0 U [4.0 U]      | 20 U [20 U]             | 4.0 U [4.0 U]         | --              | 4.0 U [4.0 U]   | 4.0 U [4.0 U]     | 4.0 U [4.0 U]   | <b>2.2 J [1.3 J]</b>      |
| TWW-1             | 1.5 - 6.5            | 09/24/13        | --                   | --            | --            | 18 U [20 U]      | --            | --                 | 180 U [200 U]  | 18 U [20 U]        | 18 U [20 U]             | <b>18 B [17 J,B]</b>  | --              | 18 U [20 U]     | 18 U [20 U]       | 18 U [20 U]     | 18 U [20 U]               |
| TWW-1             | 1.5 - 6.5            | 09/23/14        | --                   | --            | --            | 25 U [25 U]      | --            | --                 | 250 U [250 U]  | 25 U [25 U]        | 25 U [25 U]             | 25 U [25 U]           | --              | 25 U [25 U]     | 25 U [25 U]       | 25 U [25 U]     | 25 U [25 U]               |
| TWW-1             | 1.5 - 6.5            | 10/01/15        | 5.0 U [5.0 U]        | 5.0 U [5.0 U] | 5.0 U [5.0 U] | 5.0 U [5.0 U]    | 5.0 U [5.0 U] | 5.0 U [5.0 U]      | 50 U [50 U]    | 5.0 U [5.0 U]      | 5.0 U [5.0 U]           | 4.7 J,B [3.1 J,B]     | --              | 5.0 U [5.0 U]   | 5.0 U [5.0 U]     | 5.0 U [5.0 U]   | 5.0 U [5.0 U]             |
| TWW-1             | 1.5 - 6.5            | 09/27/16        | --                   | --            | --            | < 10 U           | --            | --                 | < 100 U        | < 10 U             | < 10 U                  | < 10 U                | --              | < 10 U          | < 10 U            | < 10 U          | < 10 U                    |
| TWW-1 Dup         | 1.5 - 6.5            | 09/27/16        | --                   | --            | --            | < 7.7 U          | --            | --                 | < 77 U         | < 7.7 U            | < 7.7 U                 | < 7.7 U               | --              | < 7.7 U         | < 7.7 U           | < 7.7 U         | < 7.7 U                   |
| X-10BR            | 26.3 - 31.3          | 07/24/95        | --                   | --            | --            | --               | --            | --                 | --             | --                 | --                      | 1.0 U                 | --              | 1.0 U           | 1.0 U             | 1.0 U           | 1.0 U                     |
| X-10BR            | 26.3 - 31.3          | 12/15/06        | --                   | --            | --            | 5.0 U            | --            | --                 | 10 U           | 1.0 U              | 5.0 U                   | 5.0 U                 | --              | 1.0 U           | 1.0 U             | 1.0 U           | 1.0 U                     |
| X-4A              | 6.2 - 9.2            | 12/14/06        | --                   | --            | --            | 5.0 U            | --            | --                 | 10 U           | 1.0 U              | 5.0 U                   | 5.0 U                 | --              | 1.0 U           | 1.0 U             | 1.0 U           | 1.0 U                     |
| X-4AR             | 3.3 - 8.3            | 07/24/95        | --                   | --            | --            | --               | --            | --                 | --             | --                 | --                      | 1.0 UJ                | --              | 1.0 U           | 1.0 U             | 1.0 U           | 1.0 U                     |
| X-4AR             | 3.3 - 8.3            | 06/09/96        | --                   | --            | --            | --               | --            | --                 | --             | --                 | --                      | 5.0 U                 | --              | 1.0 U           | 1.0 U             | 1.0 U           | 1.0 U                     |
| X-4AR             | 3.3 - 8.3            | 03/05/97        | --                   | --            | --            | --               | --            | --                 | --             | --                 | --                      | --                    | --              | --              | --                | --              | --                        |
| X-4CAUG           | 18 - 23              | 07/24/95        | --                   | --            | --            | --               | --            | --                 | --             | --                 | --                      | 1.0 UJ                | --              | 1.0 U           | 1.0 U             | 1.0 U           | 1.0 U                     |
| X-4CAUG           | 18 - 23              | 06/08/96        | --                   | --            | --            | --               | --            | --                 | --             | --                 | --                      | 5.0 U                 | --              | 1.0 U           | 1.0 U             | 1.0 U           | 1.0 U                     |
| X-4CAUGR          | 18-23                | 09/28/16        | --                   | --            | --            | --               | --            | --                 | --             | --                 | --                      | --                    | --              | --              | --                | --              | --                        |
| X-4D              | 40 - 45              | 01/09/08        | --                   | --            | --            | 5.0 U            | --            | --                 | 10 U           | 1.0 U              | 5.0 U                   | 5.0 U                 | --              | 1.0 U           | 1.0 U             | 1.0 U           | 1.0 U                     |
| X-4D              | 40 - 45              | 04/02/08        | --                   | --            | --            | 5.0 U            | --            | --                 | 10 U           | 1.0 U              | 5.0 U                   | 5.0 U                 | --              | 1.0 U           | 1.0 U             | 1.0 U           | 1.0 U                     |
| X-4D              | 40 - 45              | 09/28/16        | --                   | --            | --            | --               | --            | --                 | --             | --                 | --                      | --                    | --              | --              | --                | --              | --                        |
| X-9AR             | 3 - 13               | 07/24/95        | --                   | --            | --            | --               | --            | --                 | --             | --                 | --                      | 1.0 UJ                | --              | 1.0 U           | 1.0 U             | 1.0 U           | 1.0 U                     |
| X-9AR             | 3 - 13               | 06/09/96        | --                   | --            | --            | --               | --            | --                 | --             | --                 | --                      | 5.0 U                 | --              | 1.0 U           | 1.0 U             | 1.0 U           | 1.0 U                     |
| X-9AR             | 3 - 13               | 03/05/97        | --                   | --            | --            | --               | --            | --                 | --             | --                 | --                      | --                    | --              | --              | --                | --              | --                        |
| X-9AR             | 3 - 13               | 12/15/06        | --                   | --            | --            | 5.0 U            | --            | --                 | 10 U           | 1.0 U              | 5.0 U                   | 5.0 U                 | --              | 1.0 U           | 1.0 U             | 1.0 U           | 1.0 U                     |
| X-9AR             | 3 - 13               | 09/28/16        | --                   | --            | --            | --               | --            | --                 | --             | --                 | --                      | --                    | --              | --              | --                | --              | --                        |



Table 2  
Analytical Data Summary Table - GPL Organics  
Saginaw, MI  
RACER Trust



| Volatile Organics |                      |                 |                      |             |            |                  |            |                    |                |                    |                         |                    |          |         |                   |         |                           |
|-------------------|----------------------|-----------------|----------------------|-------------|------------|------------------|------------|--------------------|----------------|--------------------|-------------------------|--------------------|----------|---------|-------------------|---------|---------------------------|
| Sample ID:        | Sample Depth (feet): | Date Collected: | Hexachloro butadiene | Iodomethane | Isobutanol | Isopropylbenzene | m&p-Xylene | Methacrylonitril e | Methyl acetate | Methyl cyclohexane | Methyl tert-butyl ether | Methylene Chloride | o-Xylene | Styrene | Tetrachloroethene | Toluene | trans-1,2-Dichloroethen e |
| MDEQ GSI Criteria |                      |                 | --                   | --          | --         | 28               | 41         | --                 | --             | --                 | 7,100 (X)               | 1,500 (X)          | 41       | 80 (X)  | --                | 270     | 1,500 (X)                 |
| X-9BR             | 26 - 31              | 07/24/95        | --                   | --          | --         | --               | --         | --                 | --             | --                 | --                      | 1.0 UJ             | --       | 1.0 U   | 1.0 U             | 1.0 U   | 1.0 U                     |
| X-9BR             | 26 - 31              | 06/08/96        | --                   | --          | --         | --               | --         | --                 | --             | --                 | --                      | 5.0 U              | --       | 1.0 U   | 1.0 U             | 1.0 U   | 1.0 U                     |
| X-9BR             | 26 - 31              | 12/15/06        | --                   | --          | --         | 5.0 U            | --         | --                 | 10 U           | 1.0 U              | 5.0 U                   | 5.0 U              | --       | 1.0 U   | 1.0 U             | 1.0 U   | 1.0 U                     |
| X-9BR             | 26 - 31              | 09/28/16        | --                   | --          | --         | --               | --         | --                 | --             | --                 | --                      | --                 | --       | --      | --                | --      | --                        |
| X-9CAUG           | 20 - 25              | 07/24/95        | --                   | --          | --         | --               | --         | --                 | --             | --                 | --                      | 1.0 UJ             | --       | 1.0 U   | 1.0 U             | 1.0 U   | 1.0 U                     |
| X-9CAUG           | 20 - 25              | 06/08/96        | --                   | --          | --         | --               | --         | --                 | --             | --                 | --                      | 5.0 U              | --       | 1.0 U   | 1.0 U             | 1.0 U   | 1.0 U                     |
| X-9CAUG           | 20 - 25              | 12/15/06        | --                   | --          | --         | 5.0 U            | --         | --                 | 10 U           | 1.0 U              | 5.0 U                   | 5.0 U              | --       | 1.0 U   | 1.0 U             | 1.0 U   | 1.0 U                     |
| X-9CAUG           | 20 - 25              | 09/28/16        | --                   | --          | --         | --               | --         | --                 | --             | --                 | --                      | --                 | --       | --      | --                | --      | --                        |
| X-9D              | 42.5 - 47.5          | 01/08/08        | --                   | --          | --         | 5.0 U            | --         | --                 | 10 U           | 1.0 U              | 5.0 U                   | 5.0 U              | --       | 1.0 U   | 1.0 U             | 1.0 U   | 1.0 U                     |
| X-9D              | 42.5 - 47.5          | 03/11/08        | --                   | --          | --         | 5.0 U            | --         | --                 | 10 U           | 1.0 U              | 5.0 U                   | 5.0 U              | --       | 1.0 U   | 1.0 U             | 1.0 U   | 1.0 U                     |
| X-9D              | 42.5 - 47.5          | 09/28/16        | --                   | --          | --         | --               | --         | --                 | --             | --                 | --                      | --                 | --       | --      | --                | --      | --                        |

Table 2  
Analytical Data Summary Table - GPL Organics  
Saginaw, MI  
RACER Trust



| Volatile Organics |                      |                 |                           |                 |                         |                 |                            |               | Semivolatile Organics   |                      |                      |                     |                                                             |                        |                        |                     |
|-------------------|----------------------|-----------------|---------------------------|-----------------|-------------------------|-----------------|----------------------------|---------------|-------------------------|----------------------|----------------------|---------------------|-------------------------------------------------------------|------------------------|------------------------|---------------------|
| Sample ID:        | Sample Depth (feet): | Date Collected: | trans-1,3-Dichloropropene | Trichloroethene | Trichlorofluoro methane | Vinyl Chloride  | Total 1,3-Dichloropropenes | Total Xylenes | 1,2,4-Trichloro benzene | 1,2-Dichloro benzene | 1,3-Dichloro benzene | 1,4-Dichlorobenzene | 2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether) | 2,4,5-Trichloropheno l | 2,4,6-Trichloropheno l | 2,4-Dichloropheno l |
| MDEQ GSI Criteria |                      |                 | --                        | 200 (X)         | --                      | 13 (X)          | 9.0 (X)                    | 41            | 99 (X)                  | 13                   | 28                   | 17                  | --                                                          | --                     | --                     | --                  |
| MW-117S1          | 24.2 - 29.2          | 06/20/95        | 1.0 U                     | 1.0 U           | --                      | 1.0 U           | 1.0 U                      | 3.0 U         | 5.0 U                   | --                   | --                   | --                  | 5.0 UJ                                                      | 50 U                   | 5.0 U                  | 5.0 U               |
| MW-117S1          | 24.2 - 29.2          | 05/19/00        | 1.0 U                     | 1.0 U           | --                      | 0.14 J          | 1.0 U                      | 1.0 U         | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                  |
| MW-117S1          | 24.2 - 29.2          | 06/19/01        | 1.0 U                     | 1.0 U           | --                      | 1.0 U           | 1.0 U                      | 1.0 U         | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                  |
| MW-117S1          | 24.2 - 29.2          | 06/26/02        | 1.0 U                     | 1.0 U           | 1.0 U                   | 0.21 J          | 1.0 U                      | 1.0 U         | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                  |
| MW-117S1          | 24.2 - 29.2          | 06/19/03        | 1.0 U                     | 1.0 U           | --                      | 1.0 U           | 1.0 U                      | 1.0 U         | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                  |
| MW-117S1          | 24.2 - 29.2          | 05/27/04        | 1.0 U                     | 1.0 UJ          | --                      | 1.0 U           | 1.0 U                      | 1.0 U         | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                  |
| MW-117S1          | 24.2 - 29.2          | 06/23/05        | 1.0 U                     | 1.7             | --                      | 1.0 U           | 1.0 U                      | 2.0 U         | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                  |
| MW-117S1          | 24.2 - 29.2          | 12/13/06        | 1.0 U                     | 1.0 U           | 1.0 U                   | 1.0 U           | 1.0 U                      | 2.0 U         | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                  |
| MW-117S1          | 24.2 - 29.2          | 09/27/16        | --                        | --              | --                      | --              | --                         | --            | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                  |
| MW-117S2          | 35 - 40              | 06/20/95        | 1.0 U                     | 1.0 U           | --                      | 1.0 U           | 1.0 U                      | 3.0 U         | 5.0 U                   | --                   | --                   | --                  | 5.0 UJ                                                      | 50 U                   | 5.0 U                  | 5.0 U               |
| MW-117S2          | 35 - 40              | 05/20/00        | --                        | --              | --                      | --              | --                         | --            | 5.0 U                   | 1.0 U                | 1.0 U                | 1.0 U               | 5.0 U                                                       | 5.0 U                  | 5.0 U                  | 10 U                |
| MW-117S2          | 35 - 40              | 12/13/06        | 1.0 U                     | 1.0 U           | 1.0 U                   | 1.0 U           | 1.0 U                      | 2.0 U         | --                      | --                   | --                   | --                  | 5.0 U [5.0 U]                                               | 5.0 U [5.0 U]          | 4.0 U [4.0 U]          | 10 U [10 U]         |
| MW-117WT          | 3 - 13               | 06/20/95        | 1.0 U                     | 1.0 U           | --                      | 1.0 U           | 1.0 U                      | 3.0 U         | 5.0 U                   | --                   | --                   | --                  | 5.0 U                                                       | 50 U                   | 5.0 U                  | 5.0 U               |
| MW-117WT          | 3 - 13               | 05/19/00        | 1.0 U                     | 1.0 U           | --                      | 1.0 U           | 1.0 U                      | 1.0 U         | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                  |
| MW-117WT          | 3 - 13               | 06/18/01        | 1.0 U                     | 1.0 U           | --                      | 1.0 U           | 1.0 U                      | 1.0 U         | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                  |
| MW-117WT          | 3 - 13               | 06/26/02        | 1.0 U                     | 1.0 U           | 1.0 U                   | 1.0 U           | 1.0 U                      | 1.0 U         | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                  |
| MW-117WT          | 3 - 13               | 06/19/03        | 1.0 U                     | 1.0 U           | --                      | 1.0 U           | 1.0 U                      | 1.0 U         | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                  |
| MW-117WT          | 3 - 13               | 12/09/04        | 1.0 U [1.0 U]             | 1.0 U [1.0 U]   | --                      | 1.0 U [1.0 U]   | 1.0 U [1.0 U]              | 2.0 U [2.0 U] | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                  |
| MW-117WT          | 3 - 13               | 06/23/05        | 1.0 U                     | 1.1             | --                      | 1.0 U           | 1.0 U                      | 2.0 U         | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                  |
| MW-117WT          | 3 - 13               | 12/13/06        | 1.0 U                     | 1.0 U           | 1.0 U                   | 1.0 U           | 1.0 U                      | 2.0 U         | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                  |
| MW-117WT          | 3 - 13               | 09/27/16        | --                        | --              | --                      | --              | --                         | --            | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                  |
| MW-117WT          | 3 - 13               | 10/13/16        | --                        | --              | --                      | --              | --                         | --            | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                  |
| MW-118S1          | 23.5 - 28.5          | 06/20/95        | 1.0 U                     | 1.0 U           | --                      | 1.0 U           | 1.0 U                      | 3.0 U         | 5.0 U                   | --                   | --                   | --                  | 5.0 UJ                                                      | 50 U                   | 5.0 U                  | 5.0 U               |
| MW-118S1          | 23.5 - 28.5          | 05/17/00        | 1.0 U [1.0 U]             | 1.0 U [1.0 U]   | --                      | 0.33 J [0.33 J] | 1.0 U [1.0 U]              | 1.0 U [1.0 U] | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                  |
| MW-118S1          | 23.5 - 28.5          | 06/19/01        | 1.0 U                     | 1.0 U           | --                      | 0.27 J          | 1.0 U                      | 1.0 U         | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                  |
| MW-118S1          | 23.5 - 28.5          | 06/27/02        | 1.0 U                     | 1.0 U           | 1.0 U                   | 0.27 J          | 1.0 U                      | 1.0 U         | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                  |
| MW-118S1          | 23.5 - 28.5          | 06/19/03        | 1.0 U                     | 1.0 U           | --                      | 1.0 U           | 1.0 U                      | 1.0 U         | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                  |
| MW-118S1          | 23.5 - 28.5          | 12/09/04        | 1.0 U                     | 1.0 U           | --                      | 0.26 J          | 1.0 U                      | 2.0 U         | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                  |
| MW-118S1          | 23.5 - 28.5          | 06/23/05        | 1.0 U                     | 1.1             | --                      | 1.0 U           | 1.0 U                      | 2.0 U         | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                  |
| MW-118S1          | 23.5 - 28.5          | 12/14/06        | 1.0 U                     | 1.0 U           | 1.0 U                   | 0.23 J          | 1.0 U                      | 2.0 U         | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                  |
| MW-118S1          | 23.5 - 28.5          | 09/27/16        | --                        | --              | --                      | --              | --                         | --            | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                  |
| MW-118S2          | 38.5 - 43.5          | 06/20/95        | 1.0 U [1.0 U]             | 1.0 U [1.0 U]   | --                      | 1.0 U [1.0 U]   | 1.0 U [1.0 U]              | 3.0 U [3.0 U] | 5.0 U [5.0 U]           | --                   | --                   | --                  | 5.0 U [5.0 U]                                               | 50 U [50 U]            | 5.0 U [5.0 U]          | 5.0 U [5.0 U]       |
| MW-118S2          | 38.5 - 43.5          | 12/14/06        | 1.0 U                     | 1.0 U           | 1.0 U                   | 1.0 U           | 1.0 U                      | 2.0 U         | --                      | --                   | --                   | --                  | 5.0 U                                                       | 5.0 U                  | 4.0 U                  | 10 U                |

Table 2  
Analytical Data Summary Table - GPL Organics  
Saginaw, MI  
RACER Trust



| Volatile Organics |                      |                 |                           |                 |                         |                |                            |               | Semivolatile Organics   |                      |                      |                     |                                                             |                        |                        |                     |
|-------------------|----------------------|-----------------|---------------------------|-----------------|-------------------------|----------------|----------------------------|---------------|-------------------------|----------------------|----------------------|---------------------|-------------------------------------------------------------|------------------------|------------------------|---------------------|
| Sample ID:        | Sample Depth (feet): | Date Collected: | trans-1,3-Dichloropropene | Trichloroethene | Trichlorofluoro methane | Vinyl Chloride | Total 1,3-Dichloropropenes | Total Xylenes | 1,2,4-Trichloro benzene | 1,2-Dichloro benzene | 1,3-Dichloro benzene | 1,4-Dichlorobenzene | 2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether) | 2,4,5-Trichloropheno l | 2,4,6-Trichloropheno l | 2,4-Dichloropheno l |
| MDEQ GSI Criteria |                      |                 | --                        | 200 (X)         | --                      | 13 (X)         | 9.0 (X)                    | 41            | 99 (X)                  | 13                   | 28                   | 17                  | --                                                          | --                     | --                     | --                  |
| MW-118WT          | 1.6 - 11.6           | 06/20/95        | 1.0 U                     | 1.0 U           | --                      | 1.0 U          | 1.0 U                      | 3.0 U         | 5.0 U                   | --                   | --                   | --                  | 5.0 U                                                       | 50 U                   | 5.0 U                  | 5.0 U               |
| MW-118WT          | 1.6 - 11.6           | 05/17/00        | 1.0 U                     | 1.0 U           | --                      | 1.0 U          | 1.0 U                      | 0.47 J        | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                  |
| MW-118WT          | 1.6 - 11.6           | 06/19/01        | 4.0 U [4.0 U]             | 4.0 U [4.0 U]   | --                      | 4.0 U [4.0 U]  | 4.0 U [4.0 U]              | 4.0 U [4.0 U] | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                  |
| MW-118WT          | 1.6 - 11.6           | 06/27/02        | 2.0 U [1.0 U]             | 2.0 U [1.0 U]   | 2.0 U [1.0 U]           | 2.0 U [1.0 U]  | 2.0 U [1.0 U]              | 2.0 U [1.0 U] | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                  |
| MW-118WT          | 1.6 - 11.6           | 06/19/03        | 1.0 U [1.0 U]             | 1.0 U [1.0 U]   | --                      | 1.0 U [1.0 U]  | 1.0 U [1.0 U]              | 1.0 U [1.0 U] | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                  |
| MW-118WT          | 1.6 - 11.6           | 05/27/04        | 1.7 U                     | 1.7 U           | --                      | 1.7 U          | 1.7 U                      | 1.7 U         | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                  |
| MW-118WT          | 1.6 - 11.6           | 06/23/05        | 1.0 U                     | 0.57 J          | --                      | 1.0 U          | 1.0 U                      | 2.0 U         | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                  |
| MW-118WT          | 1.6 - 11.6           | 12/14/06        | 1.0 U                     | 1.0 U           | 1.0 U                   | 1.0 U          | 1.0 U                      | 0.58 J        | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                  |
| MW-118WT          | 1.6 - 11.6           | 09/27/16        | --                        | --              | --                      | --             | --                         | --            | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                  |
| MW-183WT          | 6 - 16               | 08/17/00        | --                        | --              | --                      | --             | --                         | --            | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                  |
| MW-183WT          | 6 - 16               | 09/28/16        | --                        | --              | --                      | --             | --                         | --            | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                  |
| TWW-1             | 1.5 - 6.5            | 01/25/97        | 330 U                     | 630             | --                      | 2,000          | 330 U                      | 1,000 U       | 5.0 U                   | 5.0 U                | 5.0 U                | 5.0 U               | 5.0 U                                                       | 50 U                   | 5.0 U                  | 5.0 U               |
| TWW-1             | 1.5 - 6.5            | 08/08/98        | 200 U                     | 200 U           | --                      | 1,700          | 200 U                      | 600 U         | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                  |
| TWW-1             | 1.5 - 6.5            | 05/18/99        | 250 UD [250 UD]           | 250 UD [250 UD] | --                      | 330 D [390 D]  | 250 U [250 U]              | 500 U [500 U] | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                  |
| TWW-1             | 1.5 - 6.5            | 05/21/00        | 250 U                     | 250 U           | --                      | 2,300          | 250 U                      | 250 U         | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                  |
| TWW-1             | 1.5 - 6.5            | 09/29/10        | 71 U                      | 71 U            | 71 U                    | 1,700          | --                         | 140 U         | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                  |
| TWW-1             | 1.5 - 6.5            | 09/21/11        | 77 U [77 U]               | 77 U [77 U]     | 77 U [77 U]             | 500 [540]      | --                         | 150 U [150 U] | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                  |
| TWW-1             | 1.5 - 6.5            | 09/14/12        | 4.0 U [4.0 U]             | 0.89 J [4.0 U]  | 4.0 U [4.0 U]           | 40 [48]        | --                         | 8.0 U [8.0 U] | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                  |
| TWW-1             | 1.5 - 6.5            | 09/24/13        | 18 U [20 U]               | 18 U [20 U]     | 18 U [20 U]             | 390 [400]      | --                         | 36 U [40 U]   | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                  |
| TWW-1             | 1.5 - 6.5            | 09/23/14        | 25 U [25 U]               | 25 U [25 U]     | 25 U [25 U]             | 470 [450]      | --                         | 50 U [50 U]   | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                  |
| TWW-1             | 1.5 - 6.5            | 10/01/15        | 5.0 U [5.0 U]             | 5.0 U [5.0 U]   | 5.0 U [5.0 U]           | 97 [90]        | --                         | 10 U [10 U]   | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                  |
| TWW-1             | 1.5 - 6.5            | 09/27/16        | < 10 U                    | < 10 U          | < 10 U                  | 140            | --                         | < 20 U        | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                  |
| TWW-1 Dup         | 1.5 - 6.5            | 09/27/16        | < 7.7 U                   | < 7.7 U         | < 7.7 U                 | 130            | --                         | < 15 U        | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                  |
| X-10BR            | 26.3 - 31.3          | 07/24/95        | 1.0 UJ                    | 1.0 U           | --                      | 1.0 U          | 1.0 U                      | 3.0 U         | 5.0 U                   | --                   | --                   | --                  | 5.0 U                                                       | 50 U                   | 5.0 U                  | 5.0 U               |
| X-10BR            | 26.3 - 31.3          | 12/15/06        | 1.0 U                     | 1.0 U           | 1.0 U                   | 1.0 U          | 1.0 U                      | 2.0 U         | --                      | --                   | --                   | --                  | 5.0 U                                                       | 5.0 U                  | 4.0 U                  | 10 U                |
| X-4A              | 6.2 - 9.2            | 12/14/06        | 1.0 U                     | 1.0 U           | 1.0 U                   | 1.0 U          | 1.0 U                      | 2.0 U         | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                  |
| X-4AR             | 3.3 - 8.3            | 07/24/95        | 1.0 U                     | 1.0 U           | --                      | 1.0 U          | 1.0 U                      | 3.0 U         | 5.0 U                   | --                   | --                   | --                  | 5.0 U                                                       | 50 U                   | 5.0 U                  | 5.0 U               |
| X-4AR             | 3.3 - 8.3            | 06/09/96        | 1.0 U                     | 1.0 U           | --                      | 1.0 U          | 1.0 U                      | 3.0 U         | 5.0 U                   | --                   | --                   | --                  | 5.0 U                                                       | 50 U                   | 5.0 U                  | 5.0 U               |
| X-4AR             | 3.3 - 8.3            | 03/05/97        | --                        | --              | --                      | --             | --                         | --            | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                  |
| X-4CAUG           | 18 - 23              | 07/24/95        | 1.0 U                     | 1.0 U           | --                      | 1.0 U          | 1.0 U                      | 3.0 U         | 5.0 U                   | --                   | --                   | --                  | 5.0 U                                                       | 50 U                   | 5.0 U                  | 5.0 U               |
| X-4CAUG           | 18 - 23              | 06/08/96        | 1.0 U                     | 1.0 U           | --                      | 1.0 U          | 1.0 U                      | 3.0 U         | 5.0 U                   | --                   | --                   | --                  | 5.0 U                                                       | 50 U                   | 5.0 U                  | 5.0 U               |
| X-4CAUGR          | 18-23                | 09/28/16        | --                        | --              | --                      | --             | --                         | --            | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                  |
| X-4D              | 40 - 45              | 01/09/08        | 1.0 U                     | 1.0 U           | 1.0 U                   | 1.0 U          | 1.0 U                      | 2.0 U         | --                      | --                   | --                   | --                  | 5.0 U                                                       | 5.0 U                  | 4.0 U                  | 10 U                |
| X-4D              | 40 - 45              | 04/02/08        | 1.0 U                     | 1.0 U           | 1.0 U                   | 1.0 U          | 1.0 U                      | 2.0 U         | --                      | --                   | --                   | --                  | 5.0 U                                                       | 5.0 U                  | 4.0 U                  | 10 U                |
| X-4D              | 40 - 45              | 09/28/16        | --                        | --              | --                      | --             | --                         | --            | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                  |
| X-9AR             | 3 - 13               | 07/24/95        | 1.0 U                     | 1.0 U           | --                      | 1.0 U          | 1.0 U                      | 3.0 U         | 5.0 U                   | --                   | --                   | --                  | 5.0 U                                                       | 50 U                   | 5.0 U                  | 5.0 U               |
| X-9AR             | 3 - 13               | 06/09/96        | 1.0 U                     | 1.0 U           | --                      | 1.0 U          | 1.0 U                      | 3.0 U         | 5.0 U                   | --                   | --                   | --                  | 5.0 U                                                       | 50 U                   | 5.0 U                  | 5.0 U               |
| X-9AR             | 3 - 13               | 03/05/97        | --                        | --              | --                      | --             | --                         | --            | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                  |
| X-9AR             | 3 - 13               | 12/15/06        | 1.0 U                     | 1.0 U           | 1.0 U                   | 1.0 U          | 1.0 U                      | 2.0 U         | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                  |
| X-9AR             | 3 - 13               | 09/28/16        | --                        | --              | --                      | --             | --                         | --            | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                  |

Table 2  
Analytical Data Summary Table - GPL Organics  
Saginaw, MI  
RACER Trust



| Volatile Organics |                      |                 |                           |                 |                         |                |                            |               | Semivolatile Organics   |                      |                      |                     |                                                             |                        |                        |                     |
|-------------------|----------------------|-----------------|---------------------------|-----------------|-------------------------|----------------|----------------------------|---------------|-------------------------|----------------------|----------------------|---------------------|-------------------------------------------------------------|------------------------|------------------------|---------------------|
| Sample ID:        | Sample Depth (feet): | Date Collected: | trans-1,3-Dichloropropene | Trichloroethene | Trichlorofluoro methane | Vinyl Chloride | Total 1,3-Dichloropropenes | Total Xylenes | 1,2,4-Trichloro benzene | 1,2-Dichloro benzene | 1,3-Dichloro benzene | 1,4-Dichlorobenzene | 2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether) | 2,4,5-Trichloropheno l | 2,4,6-Trichloropheno l | 2,4-Dichloropheno l |
| MDEQ GSI Criteria |                      |                 | --                        | 200 (X)         | --                      | 13 (X)         | 9.0 (X)                    | 41            | 99 (X)                  | 13                   | 28                   | 17                  | --                                                          | --                     | --                     | --                  |
| X-9BR             | 26 - 31              | 07/24/95        | 1.0 U                     | 1.0 U           | --                      | 1.0 U          | 1.0 U                      | 3.0 U         | 5.0 U                   | --                   | --                   | --                  | 5.0 U                                                       | 50 U                   | 5.0 U                  | 5.0 U               |
| X-9BR             | 26 - 31              | 06/08/96        | 1.0 U                     | 1.0 U           | --                      | 1.0 U          | 1.0 U                      | 3.0 U         | 5.0 U                   | --                   | --                   | --                  | 5.0 U                                                       | 50 U                   | 5.0 U                  | 5.0 U               |
| X-9BR             | 26 - 31              | 12/15/06        | 1.0 U                     | 1.0 U           | 1.0 U                   | 1.0 U          | 1.0 U                      | 2.0 U         | --                      | --                   | --                   | --                  | 5.0 U                                                       | 5.0 U                  | 4.0 U                  | 10 U                |
| X-9BR             | 26 - 31              | 09/28/16        | --                        | --              | --                      | --             | --                         | --            | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                  |
| X-9CAUG           | 20 - 25              | 07/24/95        | 1.0 U                     | 1.0 U           | --                      | 1.0 U          | 1.0 U                      | 3.0 U         | 5.0 U                   | --                   | --                   | --                  | 5.0 U                                                       | 50 U                   | 5.0 U                  | 5.0 U               |
| X-9CAUG           | 20 - 25              | 06/08/96        | 1.0 U                     | 1.0 U           | --                      | 1.0 U          | 1.0 U                      | 3.0 U         | 5.0 U                   | --                   | --                   | --                  | 5.0 U                                                       | 50 U                   | 5.0 U                  | 5.0 U               |
| X-9CAUG           | 20 - 25              | 12/15/06        | 1.0 U                     | 1.0 U           | 1.0 U                   | 1.0 U          | 1.0 U                      | 2.0 U         | --                      | --                   | --                   | --                  | 5.0 U                                                       | 5.0 U                  | 4.0 U                  | 10 U                |
| X-9CAUG           | 20 - 25              | 09/28/16        | --                        | --              | --                      | --             | --                         | --            | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                  |
| X-9D              | 42.5 - 47.5          | 01/08/08        | 1.0 U                     | 1.0 U           | 1.0 U                   | 1.0 U          | 1.0 U                      | 2.0 U         | --                      | --                   | --                   | --                  | 5.0 U                                                       | 5.0 U                  | 4.0 U                  | 10 U                |
| X-9D              | 42.5 - 47.5          | 03/11/08        | 1.0 UJ                    | 1.0 U           | 1.0 UJ                  | 1.0 UJ         | 1.0 U                      | 2.0 U         | --                      | --                   | --                   | --                  | 5.0 U                                                       | 5.0 U                  | 4.0 U                  | 10 U                |
| X-9D              | 42.5 - 47.5          | 09/28/16        | --                        | --              | --                      | --             | --                         | --            | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                  |

Table 2  
Analytical Data Summary Table - GPL Organics  
Saginaw, MI  
RACER Trust



| Semivolatile Organics |                      |                 |                    |                   |                    |                    |                     |                |                     |                |                |               |                        |                |                            |                          |                         |                 |                           |                |
|-----------------------|----------------------|-----------------|--------------------|-------------------|--------------------|--------------------|---------------------|----------------|---------------------|----------------|----------------|---------------|------------------------|----------------|----------------------------|--------------------------|-------------------------|-----------------|---------------------------|----------------|
| Sample ID:            | Sample Depth (feet): | Date Collected: | 2,4-Dimethylphenol | 2,4-Dinitrophenol | 2,4-Dinitrotoluene | 2,6-Dinitrotoluene | 2-Chloronaphthalene | 2-Chlorophenol | 2-Methylnaphthalene | 2-Methylphenol | 2-Nitroaniline | 2-Nitrophenol | 3,3'-Dichlorobenzidine | 3-Nitroaniline | 4,6-Dinitro-2-methylphenol | 4-Bromophenylphenylether | 4-Chloro-3-Methylphenol | 4-Chloroaniline | 4-Chlorophenylphenylether | 4-Methylphenol |
| MDEQ GSI Criteria     |                      |                 | --                 | --                | --                 | --                 | --                  | 18             | 19                  | --             | --             | --            | --                     | --             | --                         | --                       | 7.4                     | --              | --                        | --             |
| MW-117S1              | 24.2 - 29.2          | 06/20/95        | 5.0 U              | 20 U              | 5.0 U              | 5.0 U              | 5.0 U               | 0.90 J         | 5.0 U               | 5.0 U          | 20 U           | 5.0 U         | 20 U                   | 20 U           | 20 UJ                      | 5.0 U                    | 5.0 U                   | 20 U            | 5.0 U                     | 5.0 U          |
| MW-117S1              | 24.2 - 29.2          | 05/19/00        | --                 | --                | --                 | --                 | --                  | --             | --                  | --             | --             | --            | --                     | --             | --                         | --                       | --                      | --              | --                        | --             |
| MW-117S1              | 24.2 - 29.2          | 06/19/01        | --                 | --                | --                 | --                 | --                  | --             | --                  | --             | --             | --            | --                     | --             | --                         | --                       | --                      | --              | --                        | --             |
| MW-117S1              | 24.2 - 29.2          | 06/26/02        | --                 | --                | --                 | --                 | --                  | --             | --                  | --             | --             | --            | --                     | --             | --                         | --                       | --                      | --              | --                        | --             |
| MW-117S1              | 24.2 - 29.2          | 06/19/03        | --                 | --                | --                 | --                 | --                  | --             | --                  | --             | --             | --            | --                     | --             | --                         | --                       | --                      | --              | --                        | --             |
| MW-117S1              | 24.2 - 29.2          | 05/27/04        | --                 | --                | --                 | --                 | --                  | --             | --                  | --             | --             | --            | --                     | --             | --                         | --                       | --                      | --              | --                        | --             |
| MW-117S1              | 24.2 - 29.2          | 06/23/05        | --                 | --                | --                 | --                 | --                  | --             | --                  | --             | --             | --            | --                     | --             | --                         | --                       | --                      | --              | --                        | --             |
| MW-117S1              | 24.2 - 29.2          | 12/13/06        | --                 | --                | --                 | --                 | --                  | --             | --                  | --             | --             | --            | --                     | --             | --                         | --                       | --                      | --              | --                        | --             |
| MW-117S1              | 24.2 - 29.2          | 09/27/16        | --                 | --                | --                 | --                 | --                  | --             | --                  | --             | --             | --            | --                     | --             | --                         | --                       | --                      | --              | --                        | --             |
| MW-117S2              | 35 - 40              | 06/20/95        | 0.80 J             | 20 U              | 5.0 U              | 5.0 U              | 5.0 U               | 5.0 U          | 5.0 U               | 5.0 U          | 20 U           | 5.0 U         | 20 U                   | 20 U           | 20 UJ                      | 5.0 U                    | 5.0 U                   | 20 U            | 5.0 U                     | 5.0 U          |
| MW-117S2              | 35 - 40              | 05/20/00        | 5.0 U              | 20 U              | 5.0 U              | 5.0 U              | 5.0 U               | 5.0 U          | 5.0 U               | 5.0 U          | 20 U           | 5.0 U         | 20 U                   | 20 U           | 20 U                       | 5.0 U                    | 5.0 U                   | 10 U            | 5.0 U                     | 5.0 U          |
| MW-117S2              | 35 - 40              | 12/13/06        | 5.0 U [5.0 U]      | 20 U [20 U]       | 5.0 U [5.0 U]      | 5.0 U [5.0 U]      | 5.0 U [5.0 U]       | 5.0 U [5.0 U]  | 5.0 U [5.0 U]       | 5.0 U [5.0 U]  | 20 U [20 U]    | 5.0 U [5.0 U] | R [4.0 U]              | 20 U [20 U]    | 20 U [20 U]                | 5.0 U [5.0 U]            | 5.0 U [5.0 U]           | 10 U [10 U]     | 5.0 U [5.0 U]             | 5.0 U [5.0 U]  |
| MW-117WT              | 3 - 13               | 06/20/95        | 5.0 U              | 20 U              | 5.0 U              | 5.0 U              | 5.0 U               | 5.0 U          | 5.0 U               | 5.0 U          | 20 U           | 5.0 U         | 20 U                   | 20 U           | 20 U                       | 5.0 U                    | 5.0 U                   | 20 U            | 5.0 U                     | 5.0 U          |
| MW-117WT              | 3 - 13               | 05/19/00        | --                 | --                | --                 | --                 | --                  | --             | --                  | --             | --             | --            | --                     | --             | --                         | --                       | --                      | --              | --                        | --             |
| MW-117WT              | 3 - 13               | 06/18/01        | --                 | --                | --                 | --                 | --                  | --             | --                  | --             | --             | --            | --                     | --             | --                         | --                       | --                      | --              | --                        | --             |
| MW-117WT              | 3 - 13               | 06/26/02        | --                 | --                | --                 | --                 | --                  | --             | --                  | --             | --             | --            | --                     | --             | --                         | --                       | --                      | --              | --                        | --             |
| MW-117WT              | 3 - 13               | 06/19/03        | --                 | --                | --                 | --                 | --                  | --             | --                  | --             | --             | --            | --                     | --             | --                         | --                       | --                      | --              | --                        | --             |
| MW-117WT              | 3 - 13               | 12/09/04        | --                 | --                | --                 | --                 | --                  | --             | --                  | --             | --             | --            | --                     | --             | --                         | --                       | --                      | --              | --                        | --             |
| MW-117WT              | 3 - 13               | 06/23/05        | --                 | --                | --                 | --                 | --                  | --             | --                  | --             | --             | --            | --                     | --             | --                         | --                       | --                      | --              | --                        | --             |
| MW-117WT              | 3 - 13               | 12/13/06        | --                 | --                | --                 | --                 | --                  | --             | --                  | --             | --             | --            | --                     | --             | --                         | --                       | --                      | --              | --                        | --             |
| MW-117WT              | 3 - 13               | 09/27/16        | --                 | --                | --                 | --                 | --                  | --             | --                  | --             | --             | --            | --                     | --             | --                         | --                       | --                      | --              | --                        | --             |
| MW-117WT              | 3 - 13               | 10/13/16        | --                 | --                | --                 | --                 | --                  | --             | --                  | --             | --             | --            | --                     | --             | --                         | --                       | --                      | --              | --                        | --             |
| MW-118S1              | 23.5 - 28.5          | 06/20/95        | 5.0 U              | 20 U              | 5.0 U              | 5.0 U              | 5.0 U               | 5.0 U          | 5.0 U               | 5.0 U          | 20 U           | 5.0 U         | 20 U                   | 20 U           | 20 UJ                      | 5.0 U                    | 5.0 U                   | 20 U            | 5.0 U                     | 5.0 U          |
| MW-118S1              | 23.5 - 28.5          | 05/17/00        | --                 | --                | --                 | --                 | --                  | --             | --                  | --             | --             | --            | --                     | --             | --                         | --                       | --                      | --              | --                        | --             |
| MW-118S1              | 23.5 - 28.5          | 06/19/01        | --                 | --                | --                 | --                 | --                  | --             | --                  | --             | --             | --            | --                     | --             | --                         | --                       | --                      | --              | --                        | --             |
| MW-118S1              | 23.5 - 28.5          | 06/27/02        | --                 | --                | --                 | --                 | --                  | --             | --                  | --             | --             | --            | --                     | --             | --                         | --                       | --                      | --              | --                        | --             |
| MW-118S1              | 23.5 - 28.5          | 06/19/03        | --                 | --                | --                 | --                 | --                  | --             | --                  | --             | --             | --            | --                     | --             | --                         | --                       | --                      | --              | --                        | --             |
| MW-118S1              | 23.5 - 28.5          | 12/09/04        | --                 | --                | --                 | --                 | --                  | --             | --                  | --             | --             | --            | --                     | --             | --                         | --                       | --                      | --              | --                        | --             |
| MW-118S1              | 23.5 - 28.5          | 06/23/05        | --                 | --                | --                 | --                 | --                  | --             | --                  | --             | --             | --            | --                     | --             | --                         | --                       | --                      | --              | --                        | --             |
| MW-118S1              | 23.5 - 28.5          | 12/14/06        | --                 | --                | --                 | --                 | --                  | --             | --                  | --             | --             | --            | --                     | --             | --                         | --                       | --                      | --              | --                        | --             |
| MW-118S1              | 23.5 - 28.5          | 09/27/16        | --                 | --                | --                 | --                 | --                  | --             | --                  | --             | --             | --            | --                     | --             | --                         | --                       | --                      | --              | --                        | --             |
| MW-118S2              | 38.5 - 43.5          | 06/20/95        | 5.0 U [5.0 U]      | 20 U [20 U]       | 5.0 U [5.0 U]      | 5.0 U [5.0 U]      | 5.0 U [5.0 U]       | 5.0 U [5.0 U]  | 5.0 U [5.0 U]       | 5.0 U [5.0 U]  | 20 U [20 U]    | 5.0 U [5.0 U] | 20 U [20 U]            | 20 U [20 U]    | 20 U [20 U]                | 5.0 U [5.0 U]            | 5.0 U [5.0 U]           | 20 U [20 U]     | 5.0 U [5.0 U]             | 5.0 U [5.0 U]  |
| MW-118S2              | 38.5 - 43.5          | 12/14/06        | 5.0 U              | 20 U              | 5.0 U              | 5.0 U              | 5.0 U               | 5.0 U          | 5.0 U               | 5.0 U          | 20 U           | 5.0 U         | 4.0 U                  | 20 U           | 20 U                       | 5.0 U                    | 5.0 U                   | 10 U            | 5.0 U                     | 5.0 U          |

Table 2  
Analytical Data Summary Table - GPL Organics  
Saginaw, MI  
RACER Trust



| Semivolatile Organics |                      |                 |                    |                   |                    |                    |                     |                |                     |                |                |               |                        |                |                            |                          |                         |                 |                           |                |
|-----------------------|----------------------|-----------------|--------------------|-------------------|--------------------|--------------------|---------------------|----------------|---------------------|----------------|----------------|---------------|------------------------|----------------|----------------------------|--------------------------|-------------------------|-----------------|---------------------------|----------------|
| Sample ID:            | Sample Depth (feet): | Date Collected: | 2,4-Dimethylphenol | 2,4-Dinitrophenol | 2,4-Dinitrotoluene | 2,6-Dinitrotoluene | 2-Chloronaphthalene | 2-Chlorophenol | 2-Methylnaphthalene | 2-Methylphenol | 2-Nitroaniline | 2-Nitrophenol | 3,3'-Dichlorobenzidine | 3-Nitroaniline | 4,6-Dinitro-2-methylphenol | 4-Bromophenylphenylether | 4-Chloro-3-Methylphenol | 4-Chloroaniline | 4-Chlorophenylphenylether | 4-Methylphenol |
| MDEQ GSI Criteria     |                      |                 | --                 | --                | --                 | --                 | --                  | 18             | 19                  | --             | --             | --            | --                     | --             | --                         | --                       | 7.4                     | --              | --                        | --             |
| MW-118WT              | 1.6 - 11.6           | 06/20/95        | 1.7 J              | 20 U              | 5.0 U              | 5.0 U              | 5.0 U               | 5.0 U          | 5.0 U               | 5.0 U          | 20 U           | 5.0 U         | 20 U                   | 20 U           | 20 U                       | 5.0 U                    | 5.0 U                   | 20 U            | 5.0 U                     | 5.0 U          |
| MW-118WT              | 1.6 - 11.6           | 05/17/00        | --                 | --                | --                 | --                 | --                  | --             | --                  | --             | --             | --            | --                     | --             | --                         | --                       | --                      | --              | --                        | --             |
| MW-118WT              | 1.6 - 11.6           | 06/19/01        | --                 | --                | --                 | --                 | --                  | --             | --                  | --             | --             | --            | --                     | --             | --                         | --                       | --                      | --              | --                        | --             |
| MW-118WT              | 1.6 - 11.6           | 06/27/02        | --                 | --                | --                 | --                 | --                  | --             | --                  | --             | --             | --            | --                     | --             | --                         | --                       | --                      | --              | --                        | --             |
| MW-118WT              | 1.6 - 11.6           | 06/19/03        | --                 | --                | --                 | --                 | --                  | --             | --                  | --             | --             | --            | --                     | --             | --                         | --                       | --                      | --              | --                        | --             |
| MW-118WT              | 1.6 - 11.6           | 05/27/04        | --                 | --                | --                 | --                 | --                  | --             | --                  | --             | --             | --            | --                     | --             | --                         | --                       | --                      | --              | --                        | --             |
| MW-118WT              | 1.6 - 11.6           | 06/23/05        | --                 | --                | --                 | --                 | --                  | --             | --                  | --             | --             | --            | --                     | --             | --                         | --                       | --                      | --              | --                        | --             |
| MW-118WT              | 1.6 - 11.6           | 12/14/06        | --                 | --                | --                 | --                 | --                  | --             | --                  | --             | --             | --            | --                     | --             | --                         | --                       | --                      | --              | --                        | --             |
| MW-118WT              | 1.6 - 11.6           | 09/27/16        | --                 | --                | --                 | --                 | --                  | --             | --                  | --             | --             | --            | --                     | --             | --                         | --                       | --                      | --              | --                        | --             |
| MW-183WT              | 6 - 16               | 08/17/00        | --                 | --                | --                 | --                 | --                  | --             | --                  | --             | --             | --            | --                     | --             | --                         | --                       | --                      | --              | --                        | --             |
| MW-183WT              | 6 - 16               | 09/28/16        | --                 | --                | --                 | --                 | --                  | --             | --                  | --             | --             | --            | --                     | --             | --                         | --                       | --                      | --              | --                        | --             |
| TWW-1                 | 1.5 - 6.5            | 01/25/97        | 5.0 U              | 20 U              | 5.0 U              | 5.0 U              | 5.0 U               | 5.0 U          | 5.0 U               | 5.0 U          | 20 U           | 5.0 U         | 20 U                   | 20 U           | 20 U                       | 5.0 U                    | 5.0 U                   | 20 U            | 5.0 U                     | 5.0 U          |
| TWW-1                 | 1.5 - 6.5            | 08/08/98        | --                 | --                | --                 | --                 | --                  | --             | --                  | --             | --             | --            | --                     | --             | --                         | --                       | --                      | --              | --                        | --             |
| TWW-1                 | 1.5 - 6.5            | 05/18/99        | --                 | --                | --                 | --                 | --                  | --             | --                  | --             | --             | --            | --                     | --             | --                         | --                       | --                      | --              | --                        | --             |
| TWW-1                 | 1.5 - 6.5            | 05/21/00        | --                 | --                | --                 | --                 | --                  | --             | --                  | --             | --             | --            | --                     | --             | --                         | --                       | --                      | --              | --                        | --             |
| TWW-1                 | 1.5 - 6.5            | 09/29/10        | --                 | --                | --                 | --                 | --                  | --             | --                  | --             | --             | --            | --                     | --             | --                         | --                       | --                      | --              | --                        | --             |
| TWW-1                 | 1.5 - 6.5            | 09/21/11        | --                 | --                | --                 | --                 | --                  | --             | --                  | --             | --             | --            | --                     | --             | --                         | --                       | --                      | --              | --                        | --             |
| TWW-1                 | 1.5 - 6.5            | 09/14/12        | --                 | --                | --                 | --                 | --                  | --             | --                  | --             | --             | --            | --                     | --             | --                         | --                       | --                      | --              | --                        | --             |
| TWW-1                 | 1.5 - 6.5            | 09/24/13        | --                 | --                | --                 | --                 | --                  | --             | --                  | --             | --             | --            | --                     | --             | --                         | --                       | --                      | --              | --                        | --             |
| TWW-1                 | 1.5 - 6.5            | 09/23/14        | --                 | --                | --                 | --                 | --                  | --             | --                  | --             | --             | --            | --                     | --             | --                         | --                       | --                      | --              | --                        | --             |
| TWW-1                 | 1.5 - 6.5            | 10/01/15        | --                 | --                | --                 | --                 | --                  | --             | --                  | --             | --             | --            | --                     | --             | --                         | --                       | --                      | --              | --                        | --             |
| TWW-1                 | 1.5 - 6.5            | 09/27/16        | --                 | --                | --                 | --                 | --                  | --             | --                  | --             | --             | --            | --                     | --             | --                         | --                       | --                      | --              | --                        | --             |
| TWW-1 Dup             | 1.5 - 6.5            | 09/27/16        | --                 | --                | --                 | --                 | --                  | --             | --                  | --             | --             | --            | --                     | --             | --                         | --                       | --                      | --              | --                        | --             |
| X-10BR                | 26.3 - 31.3          | 07/24/95        | 5.0 U              | 20 U              | 5.0 U              | 5.0 U              | 5.0 U               | 5.0 U          | 5.0 U               | 5.0 U          | 20 U           | 5.0 U         | 20 U                   | 20 U           | 20 U                       | 5.0 U                    | 5.0 U                   | 20 U            | 5.0 U                     | 5.0 U          |
| X-10BR                | 26.3 - 31.3          | 12/15/06        | 5.0 U              | 20 U              | 5.0 U              | 5.0 U              | 5.0 U               | 5.0 U          | 5.0 U               | 5.0 U          | 20 U           | 5.0 U         | 4.0 U                  | 20 U           | 20 U                       | 5.0 U                    | 5.0 U                   | 10 U            | 5.0 U                     | 5.0 U          |
| X-4A                  | 6.2 - 9.2            | 12/14/06        | --                 | --                | --                 | --                 | --                  | --             | --                  | --             | --             | --            | --                     | --             | --                         | --                       | --                      | --              | --                        | --             |
| X-4AR                 | 3.3 - 8.3            | 07/24/95        | 5.0 U              | 20 U              | 5.0 U              | 5.0 U              | 5.0 U               | 5.0 U          | 5.0 U               | 5.0 U          | 20 U           | 5.0 U         | 20 U                   | 20 U           | 20 U                       | 5.0 U                    | 5.0 U                   | 20 U            | 5.0 U                     | 5.0 U          |
| X-4AR                 | 3.3 - 8.3            | 06/09/96        | 5.0 U              | 20 U              | 5.0 U              | 5.0 U              | 5.0 U               | 5.0 U          | 5.0 U               | 5.0 U          | 20 U           | 5.0 U         | 20 U                   | 20 U           | 20 U                       | 5.0 U                    | 5.0 U                   | 20 U            | 5.0 U                     | 5.0 U          |
| X-4AR                 | 3.3 - 8.3            | 03/05/97        | --                 | --                | --                 | --                 | --                  | --             | --                  | --             | --             | --            | --                     | --             | --                         | --                       | --                      | --              | --                        | --             |
| X-4CAUG               | 18 - 23              | 07/24/95        | 5.0 U              | 20 U              | 5.0 U              | 5.0 U              | 5.0 U               | 5.0 U          | 5.0 U               | 5.0 U          | 20 U           | 5.0 U         | 20 U                   | 20 U           | 20 U                       | 5.0 U                    | 5.0 U                   | 20 U            | 5.0 U                     | 5.0 U          |
| X-4CAUG               | 18 - 23              | 06/08/96        | 5.0 U              | 20 UJ             | 5.0 U              | 5.0 U              | 5.0 U               | 5.0 U          | 5.0 U               | 5.0 U          | 20 U           | 5.0 U         | 20 U                   | 20 U           | 20 U                       | 5.0 U                    | 5.0 U                   | 20 U            | 5.0 U                     | 5.0 U          |
| X-4CAUGR              | 18-23                | 09/28/16        | --                 | --                | --                 | --                 | --                  | --             | --                  | --             | --             | --            | --                     | --             | --                         | --                       | --                      | --              | --                        | --             |
| X-4D                  | 40 - 45              | 01/09/08        | 5.0 U              | 20 U              | 5.0 U              | 5.0 U              | 5.0 U               | 5.0 U          | 5.0 U               | 5.0 U          | 20 U           | 5.0 U         | 4.0 U                  | 20 U           | 20 U                       | 5.0 U                    | 5.0 U                   | 10 U            | 5.0 U                     | 5.0 U          |
| X-4D                  | 40 - 45              | 04/02/08        | 5.0 U              | 20 U              | 5.0 U              | 5.0 U              | 5.0 U               | 5.0 U          | 5.0 U               | 5.0 U          | 20 U           | 5.0 U         | 4.0 U                  | 20 U           | 20 U                       | 5.0 U                    | 5.0 U                   | 10 U            | 5.0 U                     | 5.0 U          |
| X-4D                  | 40 - 45              | 09/28/16        | --                 | --                | --                 | --                 | --                  | --             | --                  | --             | --             | --            | --                     | --             | --                         | --                       | --                      | --              | --                        | --             |
| X-9AR                 | 3 - 13               | 07/24/95        | 5.0 U              | 20 U              | 5.0 U              | 5.0 U              | 5.0 U               | 5.0 U          | 5.0 U               | 5.0 U          | 20 U           | 5.0 U         | 20 U                   | 20 U           | 20 U                       | 5.0 U                    | 5.0 U                   | 20 U            | 5.0 U                     | 5.0 U          |
| X-9AR                 | 3 - 13               | 06/09/96        | 5.0 U              | 20 UJ             | 5.0 U              | 5.0 U              | 5.0 U               | 5.0 U          | 5.0 U               | 5.0 U          | 20 U           | 5.0 U         | 20 U                   | 20 U           | 20 U                       | 5.0 U                    | 5.0 U                   | 20 U            | 5.0 U                     | 5.0 U          |
| X-9AR                 | 3 - 13               | 03/05/97        | --                 | --                | --                 | --                 | --                  | --             | --                  | --             | --             | --            | --                     | --             | --                         | --                       | --                      | --              | --                        | --             |
| X-9AR                 | 3 - 13               | 12/15/06        | --                 | --                | --                 | --                 | --                  | --             | --                  | --             | --             | --            | --                     | --             | --                         | --                       | --                      | --              | --                        | --             |
| X-9AR                 | 3 - 13               | 09/28/16        | --                 | --                | --                 | --                 | --                  | --             | --                  | --             | --             | --            | --                     | --             | --                         | --                       | --                      | --              | --                        | --             |



Table 2  
Analytical Data Summary Table - GPL Organics  
Saginaw, MI  
RACER Trust



| Semivolatile Organics |                      |                 |                    |                   |                    |                    |                     |                |                     |                |                |               |                        |                |                            |                          |                         |                 |                           |                |
|-----------------------|----------------------|-----------------|--------------------|-------------------|--------------------|--------------------|---------------------|----------------|---------------------|----------------|----------------|---------------|------------------------|----------------|----------------------------|--------------------------|-------------------------|-----------------|---------------------------|----------------|
| Sample ID:            | Sample Depth (feet): | Date Collected: | 2,4-Dimethylphenol | 2,4-Dinitrophenol | 2,4-Dinitrotoluene | 2,6-Dinitrotoluene | 2-Chloronaphthalene | 2-Chlorophenol | 2-Methylnaphthalene | 2-Methylphenol | 2-Nitroaniline | 2-Nitrophenol | 3,3'-Dichlorobenzidine | 3-Nitroaniline | 4,6-Dinitro-2-methylphenol | 4-Bromophenylphenylether | 4-Chloro-3-Methylphenol | 4-Chloroaniline | 4-Chlorophenylphenylether | 4-Methylphenol |
| MDEQ GSI Criteria     |                      |                 | --                 | --                | --                 | --                 | --                  | 18             | 19                  | --             | --             | --            | --                     | --             | --                         | --                       | 7.4                     | --              | --                        | --             |
| X-9BR                 | 26 - 31              | 07/24/95        | 5.0 U              | 20 U              | 5.0 U              | 5.0 U              | 5.0 U               | 5.0 U          | 5.0 U               | 5.0 U          | 20 U           | 5.0 U         | 20 U                   | 20 U           | 20 U                       | 5.0 U                    | 5.0 U                   | 20 U            | 5.0 U                     | 5.0 U          |
| X-9BR                 | 26 - 31              | 06/08/96        | 5.0 U              | 20 U              | 5.0 U              | 5.0 U              | 5.0 U               | 5.0 U          | 5.0 U               | 5.0 U          | 20 U           | 5.0 U         | 20 U                   | 20 U           | 20 U                       | 5.0 U                    | 5.0 U                   | 20 U            | 5.0 U                     | 5.0 U          |
| X-9BR                 | 26 - 31              | 12/15/06        | 5.0 U              | 20 U              | 5.0 U              | 5.0 U              | 5.0 U               | 5.0 U          | 5.0 U               | 5.0 U          | 20 U           | 5.0 U         | 4.0 U                  | 20 U           | 20 U                       | 5.0 U                    | 5.0 U                   | 10 U            | 5.0 U                     | 5.0 U          |
| X-9BR                 | 26 - 31              | 09/28/16        | --                 | --                | --                 | --                 | --                  | --             | --                  | --             | --             | --            | --                     | --             | --                         | --                       | --                      | --              | --                        | --             |
| X-9CAUG               | 20 - 25              | 07/24/95        | 5.0 U              | 20 U              | 5.0 U              | 5.0 U              | 5.0 U               | 5.0 U          | 5.0 U               | 5.0 U          | 20 U           | 5.0 U         | 20 U                   | 20 U           | 20 U                       | 5.0 U                    | 5.0 U                   | 20 U            | 5.0 U                     | 5.0 U          |
| X-9CAUG               | 20 - 25              | 06/08/96        | 5.0 U              | 20 U              | 5.0 U              | 5.0 U              | 5.0 U               | 5.0 U          | 5.0 U               | 5.0 U          | 20 U           | 5.0 U         | 20 U                   | 20 U           | 20 U                       | 5.0 U                    | 5.0 U                   | 20 U            | 5.0 U                     | 5.0 U          |
| X-9CAUG               | 20 - 25              | 12/15/06        | 5.0 U              | 20 U              | 5.0 U              | 5.0 U              | 5.0 U               | 5.0 U          | 5.0 U               | 5.0 U          | 20 U           | 5.0 U         | 4.0 U                  | 20 U           | 20 U                       | 5.0 U                    | 5.0 U                   | 10 U            | 5.0 U                     | 5.0 U          |
| X-9CAUG               | 20 - 25              | 09/28/16        | --                 | --                | --                 | --                 | --                  | --             | --                  | --             | --             | --            | --                     | --             | --                         | --                       | --                      | --              | --                        | --             |
| X-9D                  | 42.5 - 47.5          | 01/08/08        | 5.0 U              | 20 U              | 5.0 U              | 5.0 U              | 5.0 U               | 5.0 U          | 5.0 U               | 5.0 U          | 20 U           | 5.0 U         | 4.0 U                  | 20 U           | 20 U                       | 5.0 U                    | 5.0 U                   | 10 U            | 5.0 U                     | 5.0 U          |
| X-9D                  | 42.5 - 47.5          | 03/11/08        | 5.0 U              | 20 U              | 5.0 U              | 5.0 U              | 5.0 U               | 5.0 U          | 5.0 U               | 5.0 U          | 20 U           | 5.0 U         | 4.0 U                  | 20 U           | 20 U                       | 5.0 U                    | 5.0 U                   | 10 U            | 5.0 U                     | 5.0 U          |
| X-9D                  | 42.5 - 47.5          | 09/28/16        | --                 | --                | --                 | --                 | --                  | --             | --                  | --             | --             | --            | --                     | --             | --                         | --                       | --                      | --              | --                        | --             |

Table 2  
Analytical Data Summary Table - GPL Organics  
Saginaw, MI  
RACER Trust



| Semivolatile Organics |                      |                 |                |               |               |                |               |         |               |               |              |                    |                |                      |                      |                      |             |                             |                          |                             |                      |
|-----------------------|----------------------|-----------------|----------------|---------------|---------------|----------------|---------------|---------|---------------|---------------|--------------|--------------------|----------------|----------------------|----------------------|----------------------|-------------|-----------------------------|--------------------------|-----------------------------|----------------------|
| Sample ID:            | Sample Depth (feet): | Date Collected: | 4-Nitroaniline | 4-Nitrophenol | Acenaphthene  | Acenaphthylene | Acetophenone  | Aniline | Anthracene    | Atrazine      | Benzaldehyde | Benzo(a)anthracene | Benzo(a)pyrene | Benzo(b)fluoranthene | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Biphenyl    | bis(2-Chloroethoxy) methane | bis(2-Chloroethyl) ether | bis(2-Ethylhexyl) phthalate | Butylbenzylphthalate |
| MDEQ GSI Criteria     |                      |                 | --             | --            | 38            | ID             | ID            | --      | ID            | 7.3           | --           | ID                 | ID             | ID                   | ID                   | --                   | --          | --                          | 1.0 (M); 0.79            | 25                          | 67 (X)               |
| MW-117S1              | 24.2 - 29.2          | 06/20/95        | 20 U           | 20 U          | 5.0 U         | 5.0 U          | --            | --      | 5.0 U         | --            | --           | 5.0 U              | 5.0 U          | 5.0 U                | 5.0 U                | 5.0 U                | --          | 5.0 U                       | 5.0 U                    | 5.0 U                       | 5.0 U                |
| MW-117S1              | 24.2 - 29.2          | 05/19/00        | --             | --            | --            | --             | --            | --      | --            | --            | --           | --                 | --             | --                   | --                   | --                   | --          | --                          | --                       | --                          | --                   |
| MW-117S1              | 24.2 - 29.2          | 06/19/01        | --             | --            | --            | --             | --            | --      | --            | --            | --           | --                 | --             | --                   | --                   | --                   | --          | --                          | --                       | --                          | --                   |
| MW-117S1              | 24.2 - 29.2          | 06/26/02        | --             | --            | --            | --             | --            | --      | --            | --            | --           | --                 | --             | --                   | --                   | --                   | --          | --                          | --                       | --                          | --                   |
| MW-117S1              | 24.2 - 29.2          | 06/19/03        | --             | --            | --            | --             | --            | --      | --            | --            | --           | --                 | --             | --                   | --                   | --                   | --          | --                          | --                       | --                          | --                   |
| MW-117S1              | 24.2 - 29.2          | 05/27/04        | --             | --            | --            | --             | --            | --      | --            | --            | --           | --                 | --             | --                   | --                   | --                   | --          | --                          | --                       | --                          | --                   |
| MW-117S1              | 24.2 - 29.2          | 06/23/05        | --             | --            | --            | --             | --            | --      | --            | --            | --           | --                 | --             | --                   | --                   | --                   | --          | --                          | --                       | --                          | --                   |
| MW-117S1              | 24.2 - 29.2          | 12/13/06        | --             | --            | --            | --             | --            | --      | --            | --            | --           | --                 | --             | --                   | --                   | --                   | --          | --                          | --                       | --                          | --                   |
| MW-117S1              | 24.2 - 29.2          | 09/27/16        | --             | --            | --            | --             | --            | --      | --            | --            | --           | --                 | --             | --                   | --                   | --                   | --          | --                          | --                       | --                          | --                   |
| MW-117S2              | 35 - 40              | 06/20/95        | 20 U           | 20 U          | 5.0 U         | 5.0 U          | --            | --      | 5.0 U         | --            | --           | 5.0 U              | 5.0 U          | 5.0 U                | 5.0 U                | 5.0 U                | --          | 5.0 U                       | 5.0 U                    | 12 B                        | 1.2 J                |
| MW-117S2              | 35 - 40              | 05/20/00        | 20 U           | 20 U          | 5.0 U         | 5.0 U          | --            | --      | 5.0 U         | --            | --           | 5.0 U              | 5.0 U          | 5.0 U                | 5.0 U                | 5.0 U                | --          | 5.0 U                       | 5.0 U                    | 5.0 U                       | 5.0 U                |
| MW-117S2              | 35 - 40              | 12/13/06        | 20 U [20 U]    | 20 U [20 U]   | 5.0 U [5.0 U] | 5.0 U [5.0 U]  | 5.0 U [5.0 U] | --      | 5.0 U [5.0 U] | 3.0 U [3.0 U] | 10 U [10 U]  | 1.0 U [1.0 U]      | 1.0 U [1.0 U]  | 1.0 U [1.0 U]        | 1.0 U [1.0 U]        | 1.0 U [1.0 U]        | 10 U [10 U] | 5.0 U [5.0 U]               | 1.0 U [1.0 U]            | 5.0 U [1.1 J]               | 5.0 U [5.0 U]        |
| MW-117WT              | 3 - 13               | 06/20/95        | 20 U           | 20 U          | 5.0 U         | 5.0 U          | --            | --      | 5.0 U         | --            | --           | 5.0 U              | 5.0 U          | 5.0 U                | 5.0 U                | 5.0 U                | --          | 5.0 U                       | 5.0 U                    | 5.0 U                       | 5.0 U                |
| MW-117WT              | 3 - 13               | 05/19/00        | --             | --            | --            | --             | --            | --      | --            | --            | --           | --                 | --             | --                   | --                   | --                   | --          | --                          | --                       | --                          | --                   |
| MW-117WT              | 3 - 13               | 06/18/01        | --             | --            | --            | --             | --            | --      | --            | --            | --           | --                 | --             | --                   | --                   | --                   | --          | --                          | --                       | --                          | --                   |
| MW-117WT              | 3 - 13               | 06/26/02        | --             | --            | --            | --             | --            | --      | --            | --            | --           | --                 | --             | --                   | --                   | --                   | --          | --                          | --                       | --                          | --                   |
| MW-117WT              | 3 - 13               | 06/19/03        | --             | --            | --            | --             | --            | --      | --            | --            | --           | --                 | --             | --                   | --                   | --                   | --          | --                          | --                       | --                          | --                   |
| MW-117WT              | 3 - 13               | 12/09/04        | --             | --            | --            | --             | --            | --      | --            | --            | --           | --                 | --             | --                   | --                   | --                   | --          | --                          | --                       | --                          | --                   |
| MW-117WT              | 3 - 13               | 06/23/05        | --             | --            | --            | --             | --            | --      | --            | --            | --           | --                 | --             | --                   | --                   | --                   | --          | --                          | --                       | --                          | --                   |
| MW-117WT              | 3 - 13               | 12/13/06        | --             | --            | --            | --             | --            | --      | --            | --            | --           | --                 | --             | --                   | --                   | --                   | --          | --                          | --                       | --                          | --                   |
| MW-117WT              | 3 - 13               | 09/27/16        | --             | --            | --            | --             | --            | --      | --            | --            | --           | --                 | --             | --                   | --                   | --                   | --          | --                          | --                       | --                          | --                   |
| MW-117WT              | 3 - 13               | 10/13/16        | --             | --            | --            | --             | --            | --      | --            | --            | --           | --                 | --             | --                   | --                   | --                   | --          | --                          | --                       | --                          | --                   |
| MW-118S1              | 23.5 - 28.5          | 06/20/95        | 20 U           | 20 U          | 5.0 U         | 5.0 U          | --            | --      | 5.0 U         | --            | --           | 5.0 U              | 5.0 U          | 5.0 U                | 5.0 U                | 5.0 U                | --          | 5.0 U                       | 5.0 U                    | 5.0 U                       | 0.80 J               |
| MW-118S1              | 23.5 - 28.5          | 05/17/00        | --             | --            | --            | --             | --            | --      | --            | --            | --           | --                 | --             | --                   | --                   | --                   | --          | --                          | --                       | --                          | --                   |
| MW-118S1              | 23.5 - 28.5          | 06/19/01        | --             | --            | --            | --             | --            | --      | --            | --            | --           | --                 | --             | --                   | --                   | --                   | --          | --                          | --                       | --                          | --                   |
| MW-118S1              | 23.5 - 28.5          | 06/27/02        | --             | --            | --            | --             | --            | --      | --            | --            | --           | --                 | --             | --                   | --                   | --                   | --          | --                          | --                       | --                          | --                   |
| MW-118S1              | 23.5 - 28.5          | 06/19/03        | --             | --            | --            | --             | --            | --      | --            | --            | --           | --                 | --             | --                   | --                   | --                   | --          | --                          | --                       | --                          | --                   |
| MW-118S1              | 23.5 - 28.5          | 12/09/04        | --             | --            | --            | --             | --            | --      | --            | --            | --           | --                 | --             | --                   | --                   | --                   | --          | --                          | --                       | --                          | --                   |
| MW-118S1              | 23.5 - 28.5          | 06/23/05        | --             | --            | --            | --             | --            | --      | --            | --            | --           | --                 | --             | --                   | --                   | --                   | --          | --                          | --                       | --                          | --                   |
| MW-118S1              | 23.5 - 28.5          | 12/14/06        | --             | --            | --            | --             | --            | --      | --            | --            | --           | --                 | --             | --                   | --                   | --                   | --          | --                          | --                       | --                          | --                   |
| MW-118S1              | 23.5 - 28.5          | 09/27/16        | --             | --            | --            | --             | --            | --      | --            | --            | --           | --                 | --             | --                   | --                   | --                   | --          | --                          | --                       | --                          | --                   |
| MW-118S2              | 38.5 - 43.5          | 06/20/95        | 20 U [20 U]    | 20 U [20 U]   | 5.0 U [5.0 U] | 5.0 U [5.0 U]  | --            | --      | 5.0 U [5.0 U] | --            | --           | 5.0 U [5.0 U]      | 5.0 U [5.0 U]  | 5.0 U [5.0 U]        | 5.0 U [5.0 U]        | 5.0 U [5.0 U]        | --          | 5.0 U [5.0 U]               | 5.0 U [5.0 U]            | 5.0 U [5.0 U]               | 5.0 U [5.0 U]        |
| MW-118S2              | 38.5 - 43.5          | 12/14/06        | 20 U           | 20 U          | 5.0 U         | 5.0 U          | 5.0 U         | --      | 5.0 U         | 3.0 U         | 10 U         | 1.0 U              | 1.0 U          | 1.0 U                | 1.0 U                | 1.0 U                | 10 U        | 5.0 U                       | 1.0 U                    | 5.0 U                       | 5.0 UJ               |



Table 2  
Analytical Data Summary Table - GPL Organics  
Saginaw, MI  
RACER Trust



| Semivolatile Organics |                      |                 |                |               |              |                |              |         |            |          |              |                    |                |                      |                      |                      |          |                             |                          |                             |                      |
|-----------------------|----------------------|-----------------|----------------|---------------|--------------|----------------|--------------|---------|------------|----------|--------------|--------------------|----------------|----------------------|----------------------|----------------------|----------|-----------------------------|--------------------------|-----------------------------|----------------------|
| Sample ID:            | Sample Depth (feet): | Date Collected: | 4-Nitroaniline | 4-Nitrophenol | Acenaphthene | Acenaphthylene | Acetophenone | Aniline | Anthracene | Atrazine | Benzaldehyde | Benzo(a)anthracene | Benzo(a)pyrene | Benzo(b)fluoranthene | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Biphenyl | bis(2-Chloroethoxy) methane | bis(2-Chloroethyl) ether | bis(2-Ethylhexyl) phthalate | Butylbenzylphthalate |
| MDEQ GSI Criteria     |                      |                 | --             | --            | 38           | ID             | ID           | --      | ID         | 7.3      | --           | ID                 | ID             | ID                   | ID                   | --                   | --       | --                          | 1.0 (M); 0.79            | 25                          | 67 (X)               |
| MW-118WT              | 1.6 - 11.6           | 06/20/95        | 20 U           | 20 U          | 5.0 U        | 5.0 U          | --           | --      | 5.0 U      | --       | --           | 5.0 U              | 5.0 U          | 5.0 U                | 5.0 U                | 5.0 U                | --       | 5.0 U                       | 5.0 U                    | 5.0 U                       | 5.0 U                |
| MW-118WT              | 1.6 - 11.6           | 05/17/00        | --             | --            | --           | --             | --           | --      | --         | --       | --           | --                 | --             | --                   | --                   | --                   | --       | --                          | --                       | --                          | --                   |
| MW-118WT              | 1.6 - 11.6           | 06/19/01        | --             | --            | --           | --             | --           | --      | --         | --       | --           | --                 | --             | --                   | --                   | --                   | --       | --                          | --                       | --                          | --                   |
| MW-118WT              | 1.6 - 11.6           | 06/27/02        | --             | --            | --           | --             | --           | --      | --         | --       | --           | --                 | --             | --                   | --                   | --                   | --       | --                          | --                       | --                          | --                   |
| MW-118WT              | 1.6 - 11.6           | 06/19/03        | --             | --            | --           | --             | --           | --      | --         | --       | --           | --                 | --             | --                   | --                   | --                   | --       | --                          | --                       | --                          | --                   |
| MW-118WT              | 1.6 - 11.6           | 05/27/04        | --             | --            | --           | --             | --           | --      | --         | --       | --           | --                 | --             | --                   | --                   | --                   | --       | --                          | --                       | --                          | --                   |
| MW-118WT              | 1.6 - 11.6           | 06/23/05        | --             | --            | --           | --             | --           | --      | --         | --       | --           | --                 | --             | --                   | --                   | --                   | --       | --                          | --                       | --                          | --                   |
| MW-118WT              | 1.6 - 11.6           | 12/14/06        | --             | --            | --           | --             | --           | --      | --         | --       | --           | --                 | --             | --                   | --                   | --                   | --       | --                          | --                       | --                          | --                   |
| MW-118WT              | 1.6 - 11.6           | 09/27/16        | --             | --            | --           | --             | --           | --      | --         | --       | --           | --                 | --             | --                   | --                   | --                   | --       | --                          | --                       | --                          | --                   |
| MW-183WT              | 6 - 16               | 08/17/00        | --             | --            | --           | --             | --           | --      | --         | --       | --           | --                 | --             | --                   | --                   | --                   | --       | --                          | --                       | --                          | --                   |
| MW-183WT              | 6 - 16               | 09/28/16        | --             | --            | --           | --             | --           | --      | --         | --       | --           | --                 | --             | --                   | --                   | --                   | --       | --                          | --                       | --                          | --                   |
| TWW-1                 | 1.5 - 6.5            | 01/25/97        | 20 U           | 20 U          | 5.0 U        | 5.0 U          | --           | --      | 5.0 U      | --       | --           | 5.0 U              | 5.0 U          | 5.0 U                | 5.0 U                | 5.0 U                | --       | 5.0 U                       | 5.0 U                    | 5.0 U                       | 5.0 U                |
| TWW-1                 | 1.5 - 6.5            | 08/08/98        | --             | --            | --           | --             | --           | --      | --         | --       | --           | --                 | --             | --                   | --                   | --                   | --       | --                          | --                       | --                          | --                   |
| TWW-1                 | 1.5 - 6.5            | 05/18/99        | --             | --            | --           | --             | --           | --      | --         | --       | --           | --                 | --             | --                   | --                   | --                   | --       | --                          | --                       | --                          | --                   |
| TWW-1                 | 1.5 - 6.5            | 05/21/00        | --             | --            | --           | --             | --           | --      | --         | --       | --           | --                 | --             | --                   | --                   | --                   | --       | --                          | --                       | --                          | --                   |
| TWW-1                 | 1.5 - 6.5            | 09/29/10        | --             | --            | --           | --             | --           | --      | --         | --       | --           | --                 | --             | --                   | --                   | --                   | --       | --                          | --                       | --                          | --                   |
| TWW-1                 | 1.5 - 6.5            | 09/21/11        | --             | --            | --           | --             | --           | --      | --         | --       | --           | --                 | --             | --                   | --                   | --                   | --       | --                          | --                       | --                          | --                   |
| TWW-1                 | 1.5 - 6.5            | 09/14/12        | --             | --            | --           | --             | --           | --      | --         | --       | --           | --                 | --             | --                   | --                   | --                   | --       | --                          | --                       | --                          | --                   |
| TWW-1                 | 1.5 - 6.5            | 09/24/13        | --             | --            | --           | --             | --           | --      | --         | --       | --           | --                 | --             | --                   | --                   | --                   | --       | --                          | --                       | --                          | --                   |
| TWW-1                 | 1.5 - 6.5            | 09/23/14        | --             | --            | --           | --             | --           | --      | --         | --       | --           | --                 | --             | --                   | --                   | --                   | --       | --                          | --                       | --                          | --                   |
| TWW-1                 | 1.5 - 6.5            | 10/01/15        | --             | --            | --           | --             | --           | --      | --         | --       | --           | --                 | --             | --                   | --                   | --                   | --       | --                          | --                       | --                          | --                   |
| TWW-1                 | 1.5 - 6.5            | 09/27/16        | --             | --            | --           | --             | --           | --      | --         | --       | --           | --                 | --             | --                   | --                   | --                   | --       | --                          | --                       | --                          | --                   |
| TWW-1 Dup             | 1.5 - 6.5            | 09/27/16        | --             | --            | --           | --             | --           | --      | --         | --       | --           | --                 | --             | --                   | --                   | --                   | --       | --                          | --                       | --                          | --                   |
| X-10BR                | 26.3 - 31.3          | 07/24/95        | 20 U           | 20 U          | 5.0 U        | 5.0 U          | --           | --      | 5.0 U      | --       | --           | 5.0 U              | 5.0 U          | 5.0 U                | 5.0 U                | 5.0 U                | --       | 5.0 U                       | 5.0 U                    | 5.0 U                       | 5.0 U                |
| X-10BR                | 26.3 - 31.3          | 12/15/06        | 20 U           | 20 U          | 5.0 U        | 5.0 U          | 5.0 U        | --      | 5.0 U      | 3.0 U    | 10 U         | 1.0 U              | 1.0 U          | 1.0 U                | 1.0 U                | 1.0 U                | 10 U     | 5.0 U                       | 1.0 U                    | 5.0 U                       | 5.0 UJ               |
| X-4A                  | 6.2 - 9.2            | 12/14/06        | --             | --            | --           | --             | --           | --      | --         | --       | --           | --                 | --             | --                   | --                   | --                   | --       | --                          | --                       | --                          | --                   |
| X-4AR                 | 3.3 - 8.3            | 07/24/95        | 20 U           | 20 U          | 5.0 U        | 5.0 U          | --           | --      | 5.0 U      | --       | --           | 5.0 U              | 5.0 U          | 5.0 U                | 5.0 U                | 5.0 U                | --       | 5.0 U                       | 5.0 U                    | 5.0 U                       | 5.0 U                |
| X-4AR                 | 3.3 - 8.3            | 06/09/96        | 20 U           | 20 U          | 5.0 U        | 5.0 U          | --           | --      | 5.0 U      | --       | --           | 5.0 U              | 5.0 U          | 5.0 U                | 5.0 U                | 5.0 U                | --       | 5.0 U                       | 5.0 U                    | 5.0 U                       | 5.0 U                |
| X-4AR                 | 3.3 - 8.3            | 03/05/97        | --             | --            | --           | --             | --           | --      | --         | --       | --           | --                 | --             | --                   | --                   | --                   | --       | --                          | --                       | --                          | --                   |
| X-4CAUG               | 18 - 23              | 07/24/95        | 20 U           | 20 U          | 5.0 U        | 5.0 U          | --           | --      | 5.0 U      | --       | --           | 5.0 U              | 5.0 U          | 5.0 U                | 5.0 U                | 5.0 U                | --       | 5.0 U                       | 5.0 U                    | 5.0 U                       | 5.0 U                |
| X-4CAUG               | 18 - 23              | 06/08/96        | 20 U           | 20 UJ         | 5.0 U        | 5.0 U          | --           | --      | 5.0 U      | --       | --           | 5.0 U              | 5.0 U          | 5.0 U                | 5.0 U                | 5.0 U                | --       | 5.0 U                       | 5.0 U                    | 5.0 UJ                      | 5.0 U                |
| X-4CAUGR              | 18-23                | 09/28/16        | --             | --            | --           | --             | --           | --      | --         | --       | --           | --                 | --             | --                   | --                   | --                   | --       | --                          | --                       | --                          | --                   |
| X-4D                  | 40 - 45              | 01/09/08        | 20 U           | 20 U          | 5.0 U        | 5.0 U          | 5.0 U        | --      | 5.0 U      | 3.0 U    | 10 U         | 1.0 U              | 1.0 U          | 1.0 U                | 1.0 U                | 1.0 U                | 10 U     | 5.0 U                       | 1.0 U                    | 5.0 U                       | 5.0 U                |
| X-4D                  | 40 - 45              | 04/02/08        | 20 U           | 20 U          | 5.0 U        | 5.0 U          | 5.0 U        | --      | 5.0 U      | 3.0 U    | 10 U         | 1.0 U              | 1.0 U          | 1.0 U                | 1.0 U                | 1.0 U                | 10 U     | 5.0 U                       | 1.0 U                    | 5.0 U                       | 5.0 U                |
| X-4D                  | 40 - 45              | 09/28/16        | --             | --            | --           | --             | --           | --      | --         | --       | --           | --                 | --             | --                   | --                   | --                   | --       | --                          | --                       | --                          | --                   |
| X-9AR                 | 3 - 13               | 07/24/95        | 20 U           | 20 U          | 5.0 U        | 5.0 U          | --           | --      | 5.0 U      | --       | --           | 5.0 U              | 5.0 U          | 5.0 U                | 5.0 U                | 5.0 U                | --       | 5.0 U                       | 5.0 U                    | 5.0 U                       | 5.0 U                |
| X-9AR                 | 3 - 13               | 06/09/96        | 20 U           | 20 UJ         | 5.0 U        | 5.0 U          | --           | --      | 5.0 U      | --       | --           | 5.0 U              | 5.0 U          | 5.0 U                | 5.0 U                | 5.0 U                | --       | 5.0 U                       | 5.0 U                    | 5.0 UJ                      | 5.0 U                |
| X-9AR                 | 3 - 13               | 03/05/97        | --             | --            | --           | --             | --           | --      | --         | --       | --           | --                 | --             | --                   | --                   | --                   | --       | --                          | --                       | --                          | --                   |
| X-9AR                 | 3 - 13               | 12/15/06        | --             | --            | --           | --             | --           | --      | --         | --       | --           | --                 | --             | --                   | --                   | --                   | --       | --                          | --                       | --                          | --                   |
| X-9AR                 | 3 - 13               | 09/28/16        | --             | --            | --           | --             | --           | --      | --         | --       | --           | --                 | --             | --                   | --                   | --                   | --       | --                          | --                       | --                          | --                   |

Table 2  
Analytical Data Summary Table - GPL Organics  
Saginaw, MI  
RACER Trust



| Semivolatile Organics |                      |                 |                |               |              |                |              |         |            |          |              |                    |                |                      |                      |                      |          |                             |                          |                             |                      |
|-----------------------|----------------------|-----------------|----------------|---------------|--------------|----------------|--------------|---------|------------|----------|--------------|--------------------|----------------|----------------------|----------------------|----------------------|----------|-----------------------------|--------------------------|-----------------------------|----------------------|
| Sample ID:            | Sample Depth (feet): | Date Collected: | 4-Nitroaniline | 4-Nitrophenol | Acenaphthene | Acenaphthylene | Acetophenone | Aniline | Anthracene | Atrazine | Benzaldehyde | Benzo(a)anthracene | Benzo(a)pyrene | Benzo(b)fluoranthene | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Biphenyl | bis(2-Chloroethoxy) methane | bis(2-Chloroethyl) ether | bis(2-Ethylhexyl) phthalate | Butylbenzylphthalate |
| MDEQ GSI Criteria     |                      |                 | --             | --            | 38           | ID             | ID           | --      | ID         | 7.3      | --           | ID                 | ID             | ID                   | ID                   | --                   | --       | --                          | 1.0 (M); 0.79            | 25                          | 67 (X)               |
| X-9BR                 | 26 - 31              | 07/24/95        | 20 U           | 20 U          | 5.0 U        | 5.0 U          | --           | --      | 5.0 U      | --       | --           | 5.0 U              | 5.0 U          | 5.0 U                | 5.0 U                | 5.0 U                | --       | 5.0 U                       | 5.0 U                    | 5.0 U                       | 5.0 U                |
| X-9BR                 | 26 - 31              | 06/08/96        | 20 U           | 20 U          | 5.0 U        | 5.0 U          | --           | --      | 5.0 U      | --       | --           | 5.0 U              | 5.0 U          | 5.0 U                | 5.0 U                | 5.0 U                | --       | 5.0 U                       | 5.0 U                    | 1.1 J                       | 5.0 U                |
| X-9BR                 | 26 - 31              | 12/15/06        | 20 U           | 20 U          | 5.0 U        | 5.0 U          | 5.0 U        | --      | 5.0 U      | 3.0 U    | 10 U         | 1.0 U              | 1.0 U          | 1.0 U                | 1.0 U                | 1.0 U                | 10 U     | 5.0 U                       | 1.0 U                    | 5.0 U                       | 5.0 UJ               |
| X-9BR                 | 26 - 31              | 09/28/16        | --             | --            | --           | --             | --           | --      | --         | --       | --           | --                 | --             | --                   | --                   | --                   | --       | --                          | --                       | --                          | --                   |
| X-9CAUG               | 20 - 25              | 07/24/95        | 20 U           | 20 U          | 5.0 U        | 5.0 U          | --           | --      | 5.0 U      | --       | --           | 5.0 U              | 5.0 U          | 5.0 U                | 5.0 U                | 5.0 U                | --       | 5.0 U                       | 5.0 U                    | 5.0 U                       | 5.0 U                |
| X-9CAUG               | 20 - 25              | 06/08/96        | 20 U           | 20 U          | 5.0 U        | 5.0 U          | --           | --      | 5.0 U      | --       | --           | 5.0 U              | 5.0 U          | 5.0 U                | 5.0 U                | 5.0 U                | --       | 5.0 U                       | 5.0 U                    | 5.0 U                       | 5.0 U                |
| X-9CAUG               | 20 - 25              | 12/15/06        | 20 U           | 20 U          | 5.0 U        | 5.0 U          | 5.0 U        | --      | 5.0 U      | 3.0 U    | 10 U         | 1.0 U              | 1.0 U          | 1.0 U                | 1.0 U                | 1.0 U                | 10 U     | 5.0 U                       | 1.0 U                    | 5.0 U                       | 5.0 UJ               |
| X-9CAUG               | 20 - 25              | 09/28/16        | --             | --            | --           | --             | --           | --      | --         | --       | --           | --                 | --             | --                   | --                   | --                   | --       | --                          | --                       | --                          | --                   |
| X-9D                  | 42.5 - 47.5          | 01/08/08        | 20 U           | 20 U          | 5.0 U        | 5.0 U          | 5.0 U        | --      | 5.0 U      | 3.0 U    | 10 U         | 1.0 U              | 1.0 U          | 1.0 U                | 1.0 U                | 1.0 U                | 10 U     | 5.0 U                       | 1.0 U                    | 5.0 U                       | 5.0 U                |
| X-9D                  | 42.5 - 47.5          | 03/11/08        | 20 U           | 20 U          | 5.0 U        | 5.0 U          | 5.0 U        | --      | 5.0 U      | 3.0 U    | 10 U         | 1.0 U              | 1.0 U          | 1.0 U                | 1.0 U                | 1.0 U                | 10 U     | 5.0 U                       | 1.0 U                    | 5.0 U                       | 5.0 U                |
| X-9D                  | 42.5 - 47.5          | 09/28/16        | --             | --            | --           | --             | --           | --      | --         | --       | --           | --                 | --             | --                   | --                   | --                   | --       | --                          | --                       | --                          | --                   |

Table 2  
Analytical Data Summary Table - GPL Organics  
Saginaw, MI  
RACER Trust



| Semivolatile Organics |                      |                 |                |               |               |                        |               |                  |                   |                     |                     |               |               |                   |                     |                           |                  |                        |               |               |
|-----------------------|----------------------|-----------------|----------------|---------------|---------------|------------------------|---------------|------------------|-------------------|---------------------|---------------------|---------------|---------------|-------------------|---------------------|---------------------------|------------------|------------------------|---------------|---------------|
| Sample ID:            | Sample Depth (feet): | Date Collected: | Caprolactam    | Carbazole     | Chrysene      | Dibenzo(a,h)anthracene | Dibenzofuran  | Diethylphthalate | Dimethylphthalate | Di-n-Butylphthalate | Di-n-Octylphthalate | Fluoranthene  | Fluorene      | Hexachlorobenzene | Hexachlorobutadiene | Hexachlorocyclopentadiene | Hexachloroethane | Indeno(1,2,3-cd)pyrene | Isophorone    | Naphthalene   |
| MDEQ GSI Criteria     |                      |                 | --             | 10 (M); 4.0   | ID            | ID                     | 4             | 110              | --                | --                  | --                  | 1.6           | 12            | 0.2 (M); 0.0003   | 0.053               | ID                        | 6.7 (X)          | ID                     | 1,300 (X)     | 11            |
| MW-117S1              | 24.2 - 29.2          | 06/20/95        | --             | 5.0 U         | 5.0 U         | 5.0 U                  | 5.0 U         | 5.0 U            | 5.0 U             | 0.60 J              | 5.0 U               | 5.0 U         | 5.0 U         | 5.0 UJ            | 5.0 U               | 5.0 U                     | 5.0 U            | 5.0 U                  | 5.0 U         | 5.0 U         |
| MW-117S1              | 24.2 - 29.2          | 05/19/00        | --             | --            | --            | --                     | --            | --               | --                | --                  | --                  | --            | --            | --                | --                  | --                        | --               | --                     | --            | --            |
| MW-117S1              | 24.2 - 29.2          | 06/19/01        | --             | --            | --            | --                     | --            | --               | --                | --                  | --                  | --            | --            | --                | --                  | --                        | --               | --                     | --            | --            |
| MW-117S1              | 24.2 - 29.2          | 06/26/02        | --             | --            | --            | --                     | --            | --               | --                | --                  | --                  | --            | --            | --                | --                  | --                        | --               | --                     | --            | --            |
| MW-117S1              | 24.2 - 29.2          | 06/19/03        | --             | --            | --            | --                     | --            | --               | --                | --                  | --                  | --            | --            | --                | --                  | --                        | --               | --                     | --            | --            |
| MW-117S1              | 24.2 - 29.2          | 05/27/04        | --             | --            | --            | --                     | --            | --               | --                | --                  | --                  | --            | --            | --                | --                  | --                        | --               | --                     | --            | --            |
| MW-117S1              | 24.2 - 29.2          | 06/23/05        | --             | --            | --            | --                     | --            | --               | --                | --                  | --                  | --            | --            | --                | --                  | --                        | --               | --                     | --            | --            |
| MW-117S1              | 24.2 - 29.2          | 12/13/06        | --             | --            | --            | --                     | --            | --               | --                | --                  | --                  | --            | --            | --                | --                  | --                        | --               | --                     | --            | --            |
| MW-117S1              | 24.2 - 29.2          | 09/27/16        | --             | --            | --            | --                     | --            | --               | --                | --                  | --                  | --            | --            | --                | --                  | --                        | --               | --                     | --            | --            |
| MW-117S2              | 35 - 40              | 06/20/95        | --             | 5.0 U         | 5.0 U         | 5.0 U                  | 5.0 U         | 5.0 U            | 5.0 U             | 0.70 J              | 5.0 U               | 5.0 U         | 5.0 U         | 5.0 UJ            | 5.0 U               | 5.0 U                     | 5.0 U            | 5.0 U                  | 5.0 U         | 5.0 U         |
| MW-117S2              | 35 - 40              | 05/20/00        | --             | 10 U          | 5.0 U         | 5.0 U                  | 5.0 U         | 5.0 U            | 5.0 U             | 5.0 U               | 5.0 U               | 5.0 U         | 5.0 U         | 5.0 U             | 5.0 U               | 5.0 U                     | 5.0 U            | 5.0 U                  | 5.0 U         | 5.0 U         |
| MW-117S2              | 35 - 40              | 12/13/06        | 1.1 J [0.67 J] | 10 U [10 U]   | 1.0 U [1.0 U] | 2.0 U [2.0 U]          | 4.0 U [4.0 U] | 5.0 U [5.0 U]    | 5.0 U [5.0 U]     | 5.0 U [5.0 U]       | 5.0 U [5.0 U]       | 1.0 U [1.0 U] | 5.0 U [5.0 U] | 0.20 U [0.20 U]   | 1.0 U [1.0 U]       | R [R]                     | 5.0 U [5.0 U]    | 2.0 U [2.0 U]          | 5.0 U [5.0 U] | 5.0 U [5.0 U] |
| MW-117WT              | 3 - 13               | 06/20/95        | --             | 5.0 U         | 5.0 U         | 5.0 U                  | 5.0 U         | 5.0 U            | 5.0 U             | 5.0 U               | 5.0 U               | 5.0 U         | 5.0 U         | 5.0 U             | 5.0 U               | 5.0 U                     | 5.0 U            | 5.0 U                  | 5.0 U         | 5.0 U         |
| MW-117WT              | 3 - 13               | 05/19/00        | --             | --            | --            | --                     | --            | --               | --                | --                  | --                  | --            | --            | --                | --                  | --                        | --               | --                     | --            | --            |
| MW-117WT              | 3 - 13               | 06/18/01        | --             | --            | --            | --                     | --            | --               | --                | --                  | --                  | --            | --            | --                | --                  | --                        | --               | --                     | --            | --            |
| MW-117WT              | 3 - 13               | 06/26/02        | --             | --            | --            | --                     | --            | --               | --                | --                  | --                  | --            | --            | --                | --                  | --                        | --               | --                     | --            | --            |
| MW-117WT              | 3 - 13               | 06/19/03        | --             | --            | --            | --                     | --            | --               | --                | --                  | --                  | --            | --            | --                | --                  | --                        | --               | --                     | --            | --            |
| MW-117WT              | 3 - 13               | 12/09/04        | --             | --            | --            | --                     | --            | --               | --                | --                  | --                  | --            | --            | --                | --                  | --                        | --               | --                     | --            | --            |
| MW-117WT              | 3 - 13               | 06/23/05        | --             | --            | --            | --                     | --            | --               | --                | --                  | --                  | --            | --            | --                | --                  | --                        | --               | --                     | --            | --            |
| MW-117WT              | 3 - 13               | 12/13/06        | --             | --            | --            | --                     | --            | --               | --                | --                  | --                  | --            | --            | --                | --                  | --                        | --               | --                     | --            | --            |
| MW-117WT              | 3 - 13               | 09/27/16        | --             | --            | --            | --                     | --            | --               | --                | --                  | --                  | --            | --            | --                | --                  | --                        | --               | --                     | --            | --            |
| MW-117WT              | 3 - 13               | 10/13/16        | --             | --            | --            | --                     | --            | --               | --                | --                  | --                  | --            | --            | --                | --                  | --                        | --               | --                     | --            | --            |
| MW-118S1              | 23.5 - 28.5          | 06/20/95        | --             | 5.0 U         | 5.0 U         | 5.0 U                  | 5.0 U         | 5.0 U            | 5.0 U             | 5.0 U               | 5.0 U               | 5.0 U         | 5.0 U         | 5.0 UJ            | 5.0 U               | 5.0 U                     | 5.0 U            | 5.0 U                  | 5.0 U         | 5.0 U         |
| MW-118S1              | 23.5 - 28.5          | 05/17/00        | --             | --            | --            | --                     | --            | --               | --                | --                  | --                  | --            | --            | --                | --                  | --                        | --               | --                     | --            | --            |
| MW-118S1              | 23.5 - 28.5          | 06/19/01        | --             | --            | --            | --                     | --            | --               | --                | --                  | --                  | --            | --            | --                | --                  | --                        | --               | --                     | --            | --            |
| MW-118S1              | 23.5 - 28.5          | 06/27/02        | --             | --            | --            | --                     | --            | --               | --                | --                  | --                  | --            | --            | --                | --                  | --                        | --               | --                     | --            | --            |
| MW-118S1              | 23.5 - 28.5          | 06/19/03        | --             | --            | --            | --                     | --            | --               | --                | --                  | --                  | --            | --            | --                | --                  | --                        | --               | --                     | --            | --            |
| MW-118S1              | 23.5 - 28.5          | 12/09/04        | --             | --            | --            | --                     | --            | --               | --                | --                  | --                  | --            | --            | --                | --                  | --                        | --               | --                     | --            | --            |
| MW-118S1              | 23.5 - 28.5          | 06/23/05        | --             | --            | --            | --                     | --            | --               | --                | --                  | --                  | --            | --            | --                | --                  | --                        | --               | --                     | --            | --            |
| MW-118S1              | 23.5 - 28.5          | 12/14/06        | --             | --            | --            | --                     | --            | --               | --                | --                  | --                  | --            | --            | --                | --                  | --                        | --               | --                     | --            | --            |
| MW-118S1              | 23.5 - 28.5          | 09/27/16        | --             | --            | --            | --                     | --            | --               | --                | --                  | --                  | --            | --            | --                | --                  | --                        | --               | --                     | --            | --            |
| MW-118S2              | 38.5 - 43.5          | 06/20/95        | --             | 5.0 U [5.0 U] | 5.0 U [5.0 U] | 5.0 U [5.0 U]          | 5.0 U [5.0 U] | 5.0 U [5.0 U]    | 5.0 U [5.0 U]     | 5.0 U [5.0 U]       | 5.0 U [5.0 U]       | 5.0 U [5.0 U] | 5.0 U [5.0 U] | 5.0 U [5.0 U]     | 5.0 U [5.0 U]       | 5.0 U [5.0 U]             | 5.0 U [5.0 U]    | 5.0 U [5.0 U]          | 5.0 U [5.0 U] | 5.0 U [5.0 U] |
| MW-118S2              | 38.5 - 43.5          | 12/14/06        | 10 U           | 10 U          | 1.0 U         | 2.0 U                  | 4.0 U         | R                | R                 | 5.0 UJ              | 5.0 U               | 1.0 U         | 5.0 U         | 0.20 U            | 1.0 U               | R                         | 5.0 U            | 2.0 U                  | 5.0 U         | 5.0 U         |

Table 2  
Analytical Data Summary Table - GPL Organics  
Saginaw, MI  
RACER Trust



| Semivolatile Organics |                      |                 |             |             |          |                        |              |                  |                   |                     |                     |              |          |                   |                     |                           |                  |                        |            |             |
|-----------------------|----------------------|-----------------|-------------|-------------|----------|------------------------|--------------|------------------|-------------------|---------------------|---------------------|--------------|----------|-------------------|---------------------|---------------------------|------------------|------------------------|------------|-------------|
| Sample ID:            | Sample Depth (feet): | Date Collected: | Caprolactam | Carbazole   | Chrysene | Dibenzo(a,h)anthracene | Dibenzofuran | Diethylphthalate | Dimethylphthalate | Di-n-Butylphthalate | Di-n-Octylphthalate | Fluoranthene | Fluorene | Hexachlorobenzene | Hexachlorobutadiene | Hexachlorocyclopentadiene | Hexachloroethane | Indeno(1,2,3-cd)pyrene | Isophorone | Naphthalene |
| MDEQ GSI Criteria     |                      |                 | --          | 10 (M); 4.0 | ID       | ID                     | 4            | 110              | --                | --                  | --                  | 1.6          | 12       | 0.2 (M); 0.0003   | 0.053               | ID                        | 6.7 (X)          | ID                     | 1,300 (X)  | 11          |
| MW-118WT              | 1.6 - 11.6           | 06/20/95        | --          | 5.0 U       | 5.0 U    | 5.0 U                  | 5.0 U        | 5.0 U            | 5.0 U             | 5.0 U               | 5.0 U               | 5.0 U        | 5.0 U    | 5.0 U             | 5.0 U               | 5.0 U                     | 5.0 U            | 5.0 U                  | 5.0 U      | 5.0 U       |
| MW-118WT              | 1.6 - 11.6           | 05/17/00        | --          | --          | --       | --                     | --           | --               | --                | --                  | --                  | --           | --       | --                | --                  | --                        | --               | --                     | --         | --          |
| MW-118WT              | 1.6 - 11.6           | 06/19/01        | --          | --          | --       | --                     | --           | --               | --                | --                  | --                  | --           | --       | --                | --                  | --                        | --               | --                     | --         | --          |
| MW-118WT              | 1.6 - 11.6           | 06/27/02        | --          | --          | --       | --                     | --           | --               | --                | --                  | --                  | --           | --       | --                | --                  | --                        | --               | --                     | --         | --          |
| MW-118WT              | 1.6 - 11.6           | 06/19/03        | --          | --          | --       | --                     | --           | --               | --                | --                  | --                  | --           | --       | --                | --                  | --                        | --               | --                     | --         | --          |
| MW-118WT              | 1.6 - 11.6           | 05/27/04        | --          | --          | --       | --                     | --           | --               | --                | --                  | --                  | --           | --       | --                | --                  | --                        | --               | --                     | --         | --          |
| MW-118WT              | 1.6 - 11.6           | 06/23/05        | --          | --          | --       | --                     | --           | --               | --                | --                  | --                  | --           | --       | --                | --                  | --                        | --               | --                     | --         | --          |
| MW-118WT              | 1.6 - 11.6           | 12/14/06        | --          | --          | --       | --                     | --           | --               | --                | --                  | --                  | --           | --       | --                | --                  | --                        | --               | --                     | --         | --          |
| MW-118WT              | 1.6 - 11.6           | 09/27/16        | --          | --          | --       | --                     | --           | --               | --                | --                  | --                  | --           | --       | --                | --                  | --                        | --               | --                     | --         | --          |
| MW-183WT              | 6 - 16               | 08/17/00        | --          | --          | --       | --                     | --           | --               | --                | --                  | --                  | --           | --       | --                | --                  | --                        | --               | --                     | --         | --          |
| MW-183WT              | 6 - 16               | 09/28/16        | --          | --          | --       | --                     | --           | --               | --                | --                  | --                  | --           | --       | --                | --                  | --                        | --               | --                     | --         | --          |
| TWW-1                 | 1.5 - 6.5            | 01/25/97        | --          | 10 U        | 5.0 U    | 5.0 U                  | 5.0 U        | 5.0 U            | 5.0 U             | 5.0 U               | 5.0 U               | 5.0 U        | 5.0 U    | 5.0 U             | 5.0 U               | 5.0 U                     | 2.0 U            | 5.0 U                  | 5.0 U      | 5.0 U       |
| TWW-1                 | 1.5 - 6.5            | 08/08/98        | --          | --          | --       | --                     | --           | --               | --                | --                  | --                  | --           | --       | --                | --                  | --                        | --               | --                     | --         | --          |
| TWW-1                 | 1.5 - 6.5            | 05/18/99        | --          | --          | --       | --                     | --           | --               | --                | --                  | --                  | --           | --       | --                | --                  | --                        | --               | --                     | --         | --          |
| TWW-1                 | 1.5 - 6.5            | 05/21/00        | --          | --          | --       | --                     | --           | --               | --                | --                  | --                  | --           | --       | --                | --                  | --                        | --               | --                     | --         | --          |
| TWW-1                 | 1.5 - 6.5            | 09/29/10        | --          | --          | --       | --                     | --           | --               | --                | --                  | --                  | --           | --       | --                | --                  | --                        | --               | --                     | --         | --          |
| TWW-1                 | 1.5 - 6.5            | 09/21/11        | --          | --          | --       | --                     | --           | --               | --                | --                  | --                  | --           | --       | --                | --                  | --                        | --               | --                     | --         | --          |
| TWW-1                 | 1.5 - 6.5            | 09/14/12        | --          | --          | --       | --                     | --           | --               | --                | --                  | --                  | --           | --       | --                | --                  | --                        | --               | --                     | --         | --          |
| TWW-1                 | 1.5 - 6.5            | 09/24/13        | --          | --          | --       | --                     | --           | --               | --                | --                  | --                  | --           | --       | --                | --                  | --                        | --               | --                     | --         | --          |
| TWW-1                 | 1.5 - 6.5            | 09/23/14        | --          | --          | --       | --                     | --           | --               | --                | --                  | --                  | --           | --       | --                | --                  | --                        | --               | --                     | --         | --          |
| TWW-1                 | 1.5 - 6.5            | 10/01/15        | --          | --          | --       | --                     | --           | --               | --                | --                  | --                  | --           | --       | --                | --                  | --                        | --               | --                     | --         | --          |
| TWW-1                 | 1.5 - 6.5            | 09/27/16        | --          | --          | --       | --                     | --           | --               | --                | --                  | --                  | --           | --       | --                | --                  | --                        | --               | --                     | --         | --          |
| TWW-1 Dup             | 1.5 - 6.5            | 09/27/16        | --          | --          | --       | --                     | --           | --               | --                | --                  | --                  | --           | --       | --                | --                  | --                        | --               | --                     | --         | --          |
| X-10BR                | 26.3 - 31.3          | 07/24/95        | --          | 10 U        | 5.0 U    | 5.0 U                  | 5.0 U        | 5.0 U            | 5.0 U             | 5.0 U               | 5.0 U               | 5.0 U        | 5.0 U    | 5.0 U             | 5.0 U               | 5.0 U                     | 5.0 U            | 5.0 U                  | 5.0 U      | 5.0 U       |
| X-10BR                | 26.3 - 31.3          | 12/15/06        | 3.3 J       | 10 U        | 1.0 U    | 2.0 U                  | 4.0 U        | R                | R                 | 5.0 UJ              | 5.0 U               | 1.0 U        | 5.0 U    | 0.20 U            | 1.0 U               | R                         | 5.0 U            | 2.0 U                  | 5.0 U      | 5.0 U       |
| X-4A                  | 6.2 - 9.2            | 12/14/06        | --          | --          | --       | --                     | --           | --               | --                | --                  | --                  | --           | --       | --                | --                  | --                        | --               | --                     | --         | --          |
| X-4AR                 | 3.3 - 8.3            | 07/24/95        | --          | 10 U        | 5.0 U    | 5.0 U                  | 5.0 U        | 5.0 U            | 5.0 U             | 5.0 U               | 5.0 U               | 5.0 U        | 5.0 U    | 5.0 U             | 5.0 U               | 5.0 U                     | 5.0 U            | 5.0 U                  | 5.0 U      | 5.0 U       |
| X-4AR                 | 3.3 - 8.3            | 06/09/96        | --          | 10 U        | 5.0 U    | 5.0 U                  | 5.0 U        | 5.0 U            | 5.0 U             | 5.0 U               | 5.0 U               | 5.0 U        | 5.0 U    | 5.0 U             | 5.0 U               | 5.0 U                     | 2.0 U            | 5.0 U                  | 5.0 U      | 5.0 U       |
| X-4AR                 | 3.3 - 8.3            | 03/05/97        | --          | --          | --       | --                     | --           | --               | --                | --                  | --                  | --           | --       | --                | --                  | --                        | --               | --                     | --         | --          |
| X-4CAUG               | 18 - 23              | 07/24/95        | --          | 10 U        | 5.0 U    | 5.0 U                  | 5.0 U        | 5.0 U            | 5.0 U             | 5.0 U               | 5.0 U               | 5.0 U        | 5.0 U    | 5.0 U             | 5.0 U               | 5.0 U                     | 5.0 U            | 5.0 U                  | 5.0 U      | 5.0 U       |
| X-4CAUG               | 18 - 23              | 06/08/96        | --          | 10 U        | 5.0 U    | 5.0 U                  | 5.0 U        | 5.0 U            | 5.0 U             | 5.0 U               | 5.0 U               | 5.0 U        | 5.0 U    | 5.0 U             | 5.0 U               | 5.0 U                     | 2.0 U            | 5.0 U                  | 5.0 U      | 5.0 U       |
| X-4CAUGR              | 18-23                | 09/28/16        | --          | --          | --       | --                     | --           | --               | --                | --                  | --                  | --           | --       | --                | --                  | --                        | --               | --                     | --         | --          |
| X-4D                  | 40 - 45              | 01/09/08        | 10 U        | 10 U        | 1.0 U    | 2.0 U                  | 4.0 U        | 5.0 U            | 5.0 U             | 5.0 U               | 5.0 U               | 1.0 U        | 5.0 U    | 0.20 U            | 1.0 U               | 5.0 U                     | 5.0 U            | 2.0 U                  | 5.0 U      | 5.0 U       |
| X-4D                  | 40 - 45              | 04/02/08        | 10 UJ       | 10 U        | 1.0 U    | 2.0 U                  | 4.0 U        | 5.0 U            | 5.0 U             | 5.0 U               | 5.0 U               | 1.0 U        | 5.0 U    | 0.20 U            | 1.0 U               | 5.0 U                     | 5.0 U            | 2.0 U                  | 5.0 U      | 5.0 U       |
| X-4D                  | 40 - 45              | 09/28/16        | --          | --          | --       | --                     | --           | --               | --                | --                  | --                  | --           | --       | --                | --                  | --                        | --               | --                     | --         | --          |
| X-9AR                 | 3 - 13               | 07/24/95        | --          | 10 U        | 5.0 U    | 5.0 U                  | 5.0 U        | 5.0 U            | 5.0 U             | 5.0 U               | 5.0 U               | 5.0 U        | 5.0 U    | 5.0 U             | 5.0 U               | 5.0 U                     | 5.0 U            | 5.0 U                  | 5.0 U      | 5.0 U       |
| X-9AR                 | 3 - 13               | 06/09/96        | --          | 10 U        | 5.0 U    | 5.0 U                  | 5.0 U        | 5.0 U            | 5.0 U             | 5.0 U               | 5.0 U               | 5.0 U        | 5.0 U    | 5.0 U             | 5.0 U               | 5.0 U                     | 2.0 U            | 5.0 U                  | 5.0 U      | 5.0 U       |
| X-9AR                 | 3 - 13               | 03/05/97        | --          | --          | --       | --                     | --           | --               | --                | --                  | --                  | --           | --       | --                | --                  | --                        | --               | --                     | --         | --          |
| X-9AR                 | 3 - 13               | 12/15/06        | --          | --          | --       | --                     | --           | --               | --                | --                  | --                  | --           | --       | --                | --                  | --                        | --               | --                     | --         | --          |
| X-9AR                 | 3 - 13               | 09/28/16        | --          | --          | --       | --                     | --           | --               | --                | --                  | --                  | --           | --       | --                | --                  | --                        | --               | --                     | --         | --          |

Table 2  
Analytical Data Summary Table - GPL Organics  
Saginaw, MI  
RACER Trust



| Semivolatile Organics |                      |                 |             |             |          |                        |              |                  |                   |                     |                     |              |          |                   |                     |                           |                  |                        |            |             |
|-----------------------|----------------------|-----------------|-------------|-------------|----------|------------------------|--------------|------------------|-------------------|---------------------|---------------------|--------------|----------|-------------------|---------------------|---------------------------|------------------|------------------------|------------|-------------|
| Sample ID:            | Sample Depth (feet): | Date Collected: | Caprolactam | Carbazole   | Chrysene | Dibenzo(a,h)anthracene | Dibenzofuran | Diethylphthalate | Dimethylphthalate | Di-n-Butylphthalate | Di-n-Octylphthalate | Fluoranthene | Fluorene | Hexachlorobenzene | Hexachlorobutadiene | Hexachlorocyclopentadiene | Hexachloroethane | Indeno(1,2,3-cd)pyrene | Isophorone | Naphthalene |
| MDEQ GSI Criteria     |                      |                 | --          | 10 (M); 4.0 | ID       | ID                     | 4            | 110              | --                | --                  | --                  | 1.6          | 12       | 0.2 (M); 0.0003   | 0.053               | ID                        | 6.7 (X)          | ID                     | 1,300 (X)  | 11          |
| X-9BR                 | 26 - 31              | 07/24/95        | --          | 10 U        | 5.0 U    | 5.0 U                  | 5.0 U        | 5.0 U            | 5.0 U             | 5.0 U               | 5.0 U               | 5.0 U        | 5.0 U    | 5.0 U             | 5.0 U               | 5.0 U                     | 5.0 U            | 5.0 U                  | 5.0 U      | 5.0 U       |
| X-9BR                 | 26 - 31              | 06/08/96        | --          | 10 U        | 5.0 U    | 5.0 U                  | 5.0 U        | 5.0 U            | 5.0 U             | 5.0 U               | 5.0 U               | 5.0 U        | 5.0 U    | 5.0 U             | 5.0 U               | 5.0 U                     | 5.0 U            | 5.0 U                  | 5.0 U      | 5.0 U       |
| X-9BR                 | 26 - 31              | 12/15/06        | 10 U        | 10 U        | 1.0 U    | 2.0 U                  | 4.0 U        | R                | R                 | 5.0 UJ              | 5.0 U               | 1.0 U        | 5.0 U    | 0.20 U            | 1.0 U               | R                         | 5.0 U            | 2.0 U                  | 5.0 U      | 5.0 U       |
| X-9BR                 | 26 - 31              | 09/28/16        | --          | --          | --       | --                     | --           | --               | --                | --                  | --                  | --           | --       | --                | --                  | --                        | --               | --                     | --         | --          |
| X-9CAUG               | 20 - 25              | 07/24/95        | --          | 10 U        | 5.0 U    | 5.0 U                  | 5.0 U        | 5.0 U            | 5.0 U             | 5.0 U               | 5.0 U               | 5.0 U        | 5.0 U    | 5.0 U             | 5.0 U               | 5.0 U                     | 5.0 U            | 5.0 U                  | 5.0 U      | 5.0 U       |
| X-9CAUG               | 20 - 25              | 06/08/96        | --          | 10 U        | 5.0 U    | 5.0 U                  | 5.0 U        | 5.0 U            | 5.0 U             | 5.0 U               | 5.0 U               | 5.0 U        | 5.0 U    | 5.0 U             | 5.0 U               | 5.0 U                     | 5.0 U            | 5.0 U                  | 5.0 U      | 5.0 U       |
| X-9CAUG               | 20 - 25              | 12/15/06        | 10 U        | 10 U        | 1.0 U    | 2.0 U                  | 4.0 U        | R                | R                 | 5.0 UJ              | 5.0 U               | 1.0 U        | 5.0 U    | 0.20 U            | 1.0 U               | R                         | 5.0 U            | 2.0 U                  | 5.0 U      | 5.0 U       |
| X-9CAUG               | 20 - 25              | 09/28/16        | --          | --          | --       | --                     | --           | --               | --                | --                  | --                  | --           | --       | --                | --                  | --                        | --               | --                     | --         | --          |
| X-9D                  | 42.5 - 47.5          | 01/08/08        | 10 UJ       | 10 U        | 1.0 U    | 2.0 U                  | 4.0 U        | 5.0 U            | 5.0 U             | 5.0 U               | 5.0 U               | 1.0 U        | 5.0 U    | 0.20 U            | 1.0 U               | 5.0 U                     | 5.0 U            | 2.0 U                  | 5.0 U      | 5.0 U       |
| X-9D                  | 42.5 - 47.5          | 03/11/08        | 10 U        | 10 U        | 1.0 U    | 2.0 U                  | 4.0 U        | 5.0 U            | 5.0 U             | 5.0 U               | 5.0 U               | 1.0 U        | 5.0 U    | 0.20 U            | 1.0 U               | R                         | 5.0 U            | 2.0 U                  | 5.0 U      | 5.0 U       |
| X-9D                  | 42.5 - 47.5          | 09/28/16        | --          | --          | --       | --                     | --           | --               | --                | --                  | --                  | --           | --       | --                | --                  | --                        | --               | --                     | --         | --          |

Table 2  
Analytical Data Summary Table - GPL Organics  
Saginaw, MI  
RACER Trust



| Semivolatile Organics |                      |                 |               |                            |                        |                   |               |               |               |                      | PCBs            |                 |                 |                 |                 |                 |                 |                 |
|-----------------------|----------------------|-----------------|---------------|----------------------------|------------------------|-------------------|---------------|---------------|---------------|----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Sample ID:            | Sample Depth (feet): | Date Collected: | Nitrobenzene  | N-Nitroso-di-n-propylamine | N-Nitrosodiphenylamine | Pentachlorophenol | Phenanthrene  | Phenol        | Pyrene        | Total Methyl phenols | Aroclor-1016    | Aroclor-1221    | Aroclor-1232    | Aroclor-1242    | Aroclor-1248    | Aroclor-1254    | Aroclor-1260    | Total PCBs      |
| MDEQ GSI Criteria     |                      |                 | 180 (X)       | NA                         | NA                     | (G,X)             | 2.0 (M); 1.4  | 450           | ID            | 30 (M); 25           | --              | --              | --              | --              | --              | --              | --              | 0.2 (M)         |
| MW-117S1              | 24.2 - 29.2          | 06/20/95        | 5.0 U         | 5.0 U                      | 5.0 U                  | 20 U              | 5.0 U         | 5.0 U         | 5.0 U         | 5.0 U                | 0.2 U           | 0.2 U           | 0.4 U           | 0.2 U           | 0.2 U           | 0.2 U           | 0.2 U           | --              |
| MW-117S1              | 24.2 - 29.2          | 05/19/00        | --            | --                         | --                     | --                | --            | --            | --            | --                   | --              | --              | --              | --              | --              | --              | --              | --              |
| MW-117S1              | 24.2 - 29.2          | 06/19/01        | --            | --                         | --                     | --                | --            | --            | --            | --                   | --              | --              | --              | --              | --              | --              | --              | --              |
| MW-117S1              | 24.2 - 29.2          | 06/26/02        | --            | --                         | --                     | --                | --            | --            | --            | --                   | --              | --              | --              | --              | --              | --              | --              | --              |
| MW-117S1              | 24.2 - 29.2          | 06/19/03        | --            | --                         | --                     | --                | --            | --            | --            | --                   | --              | --              | --              | --              | --              | --              | --              | --              |
| MW-117S1              | 24.2 - 29.2          | 05/27/04        | --            | --                         | --                     | --                | --            | --            | --            | --                   | --              | --              | --              | --              | --              | --              | --              | --              |
| MW-117S1              | 24.2 - 29.2          | 06/23/05        | --            | --                         | --                     | --                | --            | --            | --            | --                   | --              | --              | --              | --              | --              | --              | --              | --              |
| MW-117S1              | 24.2 - 29.2          | 12/13/06        | --            | --                         | --                     | --                | --            | --            | --            | --                   | --              | --              | --              | --              | --              | --              | --              | --              |
| MW-117S1              | 24.2 - 29.2          | 09/27/16        | --            | --                         | --                     | --                | --            | --            | --            | --                   | --              | --              | --              | --              | --              | --              | --              | --              |
| MW-117S2              | 35 - 40              | 06/20/95        | 5.0 U         | 5.0 U                      | 5.0 U                  | 20 U              | 5.0 U         | 5.0 U         | 5.0 U         | 5.0 U                | 0.2 U           | 0.2 U           | 0.4 U           | 0.2 U           | 0.2 U           | 0.2 U           | 0.2 U           | --              |
| MW-117S2              | 35 - 40              | 05/20/00        | 5.0 U         | 5.0 U                      | 5.0 U                  | 1.0 U             | 5.0 U         | 5.0 U         | 5.0 U         | 5.0 U                | --              | --              | --              | --              | --              | --              | --              | --              |
| MW-117S2              | 35 - 40              | 12/13/06        | 3.0 U [3.0 U] | 5.0 U [5.0 U]              | 5.0 U [5.0 U]          | 5.0 U [5.0 U]     | 2.0 U [2.0 U] | 5.0 U [5.0 U] | 5.0 U [5.0 U] | 5.0 U [5.0 U]        | 0.20 U [0.20 U] | 0.20 U [0.20 U] | 0.20 U [0.20 U] | 0.20 U [0.20 U] | 0.20 U [0.20 U] | 0.20 U [0.20 U] | 0.20 U [0.20 U] | 0.20 U [0.20 U] |
| MW-117WT              | 3 - 13               | 06/20/95        | 5.0 U         | 5.0 U                      | 5.0 U                  | 20 U              | 5.0 U         | 5.0 U         | 5.0 U         | 5.0 U                | 0.2 U           | 0.2 U           | 0.4 U           | 0.2 U           | 0.2 U           | 0.2 U           | 0.2 U           | --              |
| MW-117WT              | 3 - 13               | 05/19/00        | --            | --                         | --                     | --                | --            | --            | --            | --                   | --              | --              | --              | --              | --              | --              | --              | --              |
| MW-117WT              | 3 - 13               | 06/18/01        | --            | --                         | --                     | --                | --            | --            | --            | --                   | --              | --              | --              | --              | --              | --              | --              | --              |
| MW-117WT              | 3 - 13               | 06/26/02        | --            | --                         | --                     | --                | --            | --            | --            | --                   | --              | --              | --              | --              | --              | --              | --              | --              |
| MW-117WT              | 3 - 13               | 06/19/03        | --            | --                         | --                     | --                | --            | --            | --            | --                   | --              | --              | --              | --              | --              | --              | --              | --              |
| MW-117WT              | 3 - 13               | 12/09/04        | --            | --                         | --                     | --                | --            | --            | --            | --                   | --              | --              | --              | --              | --              | --              | --              | --              |
| MW-117WT              | 3 - 13               | 06/23/05        | --            | --                         | --                     | --                | --            | --            | --            | --                   | --              | --              | --              | --              | --              | --              | --              | --              |
| MW-117WT              | 3 - 13               | 12/13/06        | --            | --                         | --                     | --                | --            | --            | --            | --                   | --              | --              | --              | --              | --              | --              | --              | --              |
| MW-117WT              | 3 - 13               | 09/27/16        | --            | --                         | --                     | --                | --            | --            | --            | --                   | --              | --              | --              | --              | --              | --              | --              | --              |
| MW-117WT              | 3 - 13               | 10/13/16        | --            | --                         | --                     | --                | --            | --            | --            | --                   | --              | --              | --              | --              | --              | --              | --              | --              |
| MW-118S1              | 23.5 - 28.5          | 06/20/95        | 5.0 U         | 5.0 U                      | 5.0 U                  | 20 U              | 5.0 U         | 5.0 U         | 5.0 U         | 5.0 U                | 0.2 U           | 0.2 U           | 0.4 U           | 0.2 U           | 0.2 U           | 0.2 U           | 0.2 U           | --              |
| MW-118S1              | 23.5 - 28.5          | 05/17/00        | --            | --                         | --                     | --                | --            | --            | --            | --                   | --              | --              | --              | --              | --              | --              | --              | --              |
| MW-118S1              | 23.5 - 28.5          | 06/19/01        | --            | --                         | --                     | --                | --            | --            | --            | --                   | --              | --              | --              | --              | --              | --              | --              | --              |
| MW-118S1              | 23.5 - 28.5          | 06/27/02        | --            | --                         | --                     | --                | --            | --            | --            | --                   | --              | --              | --              | --              | --              | --              | --              | --              |
| MW-118S1              | 23.5 - 28.5          | 06/19/03        | --            | --                         | --                     | --                | --            | --            | --            | --                   | --              | --              | --              | --              | --              | --              | --              | --              |
| MW-118S1              | 23.5 - 28.5          | 12/09/04        | --            | --                         | --                     | --                | --            | --            | --            | --                   | --              | --              | --              | --              | --              | --              | --              | --              |
| MW-118S1              | 23.5 - 28.5          | 06/23/05        | --            | --                         | --                     | --                | --            | --            | --            | --                   | --              | --              | --              | --              | --              | --              | --              | --              |
| MW-118S1              | 23.5 - 28.5          | 12/14/06        | --            | --                         | --                     | --                | --            | --            | --            | --                   | --              | --              | --              | --              | --              | --              | --              | --              |
| MW-118S1              | 23.5 - 28.5          | 09/27/16        | --            | --                         | --                     | --                | --            | --            | --            | --                   | --              | --              | --              | --              | --              | --              | --              | --              |
| MW-118S2              | 38.5 - 43.5          | 06/20/95        | 5.0 U [5.0 U] | 5.0 U [5.0 U]              | 5.0 U [5.0 U]          | 20 U [20 U]       | 5.0 U [5.0 U] | 5.0 U [5.0 U] | 5.0 U [5.0 U] | 5.0 U [5.0 U]        | 0.2 U           | 0.2 U           | 0.4 U           | 0.2 U           | 0.2 U           | 0.2 U           | 0.2 U           | --              |
| MW-118S2              | 38.5 - 43.5          | 12/14/06        | 3.0 U         | 5.0 U                      | 5.0 U                  | 5.0 U             | 2.0 U         | 5.0 U         | 5.0 U         | 5.0 U                | 0.20 U          | 0.20 U          | 0.20 U          | 0.20 U          | 0.20 U          | 0.20 U          | 0.20 U          | 0.20 U          |



Table 2  
Analytical Data Summary Table - GPL Organics  
Saginaw, MI  
RACER Trust



| Semivolatile Organics |                      |                 |              |                            |                        |                   |              |        |        |                      | PCBs         |              |              |              |              |              |              |            |
|-----------------------|----------------------|-----------------|--------------|----------------------------|------------------------|-------------------|--------------|--------|--------|----------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|------------|
| Sample ID:            | Sample Depth (feet): | Date Collected: | Nitrobenzene | N-Nitroso-di-n-propylamine | N-Nitrosodiphenylamine | Pentachlorophenol | Phenanthrene | Phenol | Pyrene | Total Methyl phenols | Aroclor-1016 | Aroclor-1221 | Aroclor-1232 | Aroclor-1242 | Aroclor-1248 | Aroclor-1254 | Aroclor-1260 | Total PCBs |
| MDEQ GSI Criteria     |                      |                 | 180 (X)      | NA                         | NA                     | (G,X)             | 2.0 (M); 1.4 | 450    | ID     | 30 (M); 25           | --           | --           | --           | --           | --           | --           | --           | 0.2 (M)    |
| MW-118WT              | 1.6 - 11.6           | 06/20/95        | 5.0 U        | 5.0 U                      | 5.0 U                  | 20 U              | 5.0 U        | 18 B   | 5.0 U  | 5.0 U                | 0.2 U        | 0.2 U        | 0.4 U        | 0.2 U        | 0.2 U        | 0.2 U        | 0.2 U        | --         |
| MW-118WT              | 1.6 - 11.6           | 05/17/00        | --           | --                         | --                     | --                | --           | --     | --     | --                   | --           | --           | --           | --           | --           | --           | --           | --         |
| MW-118WT              | 1.6 - 11.6           | 06/19/01        | --           | --                         | --                     | --                | --           | --     | --     | --                   | --           | --           | --           | --           | --           | --           | --           | --         |
| MW-118WT              | 1.6 - 11.6           | 06/27/02        | --           | --                         | --                     | --                | --           | --     | --     | --                   | --           | --           | --           | --           | --           | --           | --           | --         |
| MW-118WT              | 1.6 - 11.6           | 06/19/03        | --           | --                         | --                     | --                | --           | --     | --     | --                   | --           | --           | --           | --           | --           | --           | --           | --         |
| MW-118WT              | 1.6 - 11.6           | 05/27/04        | --           | --                         | --                     | --                | --           | --     | --     | --                   | --           | --           | --           | --           | --           | --           | --           | --         |
| MW-118WT              | 1.6 - 11.6           | 06/23/05        | --           | --                         | --                     | --                | --           | --     | --     | --                   | --           | --           | --           | --           | --           | --           | --           | --         |
| MW-118WT              | 1.6 - 11.6           | 12/14/06        | --           | --                         | --                     | --                | --           | --     | --     | --                   | --           | --           | --           | --           | --           | --           | --           | --         |
| MW-118WT              | 1.6 - 11.6           | 09/27/16        | --           | --                         | --                     | --                | --           | --     | --     | --                   | --           | --           | --           | --           | --           | --           | --           | --         |
| MW-183WT              | 6 - 16               | 08/17/00        | --           | --                         | --                     | --                | --           | --     | --     | --                   | 0.20 U       | 0.20 U       | 0.40 U       | 0.20 U       | 0.20 U       | 0.20 U       | 0.20 U       | 0.40 U     |
| MW-183WT              | 6 - 16               | 09/28/16        | --           | --                         | --                     | --                | --           | --     | --     | --                   | --           | --           | --           | --           | --           | --           | --           | --         |
| TWW-1                 | 1.5 - 6.5            | 01/25/97        | 5.0 U        | 5.0 U                      | 5.0 U                  | 25 U              | 5.0 U        | 5.0 U  | 5.0 U  | 5.0 U                | 0.2 U        | 0.2 U        | 0.4 U        | 0.2 U        | 0.2 U        | 0.2 U        | 0.2 U        | --         |
| TWW-1                 | 1.5 - 6.5            | 08/08/98        | --           | --                         | --                     | --                | --           | --     | --     | --                   | 0.2 U        | 0.2 U        | 0.4 U        | 0.2 U        | 0.2 U        | 0.2 U        | 0.2 U        | --         |
| TWW-1                 | 1.5 - 6.5            | 05/18/99        | --           | --                         | --                     | --                | --           | --     | --     | --                   | --           | --           | --           | --           | --           | --           | --           | --         |
| TWW-1                 | 1.5 - 6.5            | 05/21/00        | --           | --                         | --                     | --                | --           | --     | --     | --                   | --           | --           | --           | --           | --           | --           | --           | --         |
| TWW-1                 | 1.5 - 6.5            | 09/29/10        | --           | --                         | --                     | --                | --           | --     | --     | --                   | --           | --           | --           | --           | --           | --           | --           | --         |
| TWW-1                 | 1.5 - 6.5            | 09/21/11        | --           | --                         | --                     | --                | --           | --     | --     | --                   | --           | --           | --           | --           | --           | --           | --           | --         |
| TWW-1                 | 1.5 - 6.5            | 09/14/12        | --           | --                         | --                     | --                | --           | --     | --     | --                   | --           | --           | --           | --           | --           | --           | --           | --         |
| TWW-1                 | 1.5 - 6.5            | 09/24/13        | --           | --                         | --                     | --                | --           | --     | --     | --                   | --           | --           | --           | --           | --           | --           | --           | --         |
| TWW-1                 | 1.5 - 6.5            | 09/23/14        | --           | --                         | --                     | --                | --           | --     | --     | --                   | --           | --           | --           | --           | --           | --           | --           | --         |
| TWW-1                 | 1.5 - 6.5            | 10/01/15        | --           | --                         | --                     | --                | --           | --     | --     | --                   | --           | --           | --           | --           | --           | --           | --           | --         |
| TWW-1                 | 1.5 - 6.5            | 09/27/16        | --           | --                         | --                     | --                | --           | --     | --     | --                   | --           | --           | --           | --           | --           | --           | --           | --         |
| TWW-1 Dup             | 1.5 - 6.5            | 09/27/16        | --           | --                         | --                     | --                | --           | --     | --     | --                   | --           | --           | --           | --           | --           | --           | --           | --         |
| X-10BR                | 26.3 - 31.3          | 07/24/95        | 5.0 U        | 5.0 U                      | 5.0 U                  | 25 U              | 5.0 U        | 5.0 U  | 5.0 U  | 5.0 U                | 0.2 UJ       | 0.2 UJ       | 0.4 UJ       | 0.2 UJ       | 0.2 UJ       | 0.2 UJ       | 0.2 UJ       | --         |
| X-10BR                | 26.3 - 31.3          | 12/15/06        | 3.0 U        | 5.0 U                      | 5.0 U                  | 5.0 U             | 2.0 U        | 5.0 U  | 5.0 U  | 5.0 U                | 0.20 U       | 0.20 U       | 0.20 U       | 0.20 U       | 0.20 U       | 0.20 U       | 0.20 U       | 0.20 U     |
| X-4A                  | 6.2 - 9.2            | 12/14/06        | --           | --                         | --                     | --                | --           | --     | --     | --                   | --           | --           | --           | --           | --           | --           | --           | --         |
| X-4AR                 | 3.3 - 8.3            | 07/24/95        | 5.0 U        | 5.0 U                      | 5.0 U                  | 25 U              | 5.0 U        | 5.0 U  | 5.0 U  | 5.0 U                | 0.2 U        | 0.2 U        | 0.4 U        | 0.2 U        | 0.2 U        | 0.2 U        | 0.2 U        | --         |
| X-4AR                 | 3.3 - 8.3            | 06/09/96        | 5.0 U        | 5.0 U                      | 5.0 U                  | 25 U              | 5.0 U        | 5.0 U  | 5.0 U  | 5.0 U                | 0.2 U        | 0.2 U        | 0.4 U        | 0.2 U        | 0.2 U        | 0.2 U        | 0.2 U        | --         |
| X-4AR                 | 3.3 - 8.3            | 03/05/97        | --           | --                         | --                     | --                | --           | --     | --     | --                   | 0.2 U        | 0.2 U        | 0.4 U        | 0.2 U        | 0.2 U        | 0.2 U        | 0.2 U        | --         |
| X-4CAUG               | 18 - 23              | 07/24/95        | 5.0 U        | 5.0 U                      | 5.0 U                  | 25 U              | 5.0 U        | 5.0 U  | 5.0 U  | 5.0 U                | 0.2 U        | 0.2 U        | 0.4 U        | 0.2 U        | 0.2 U        | 0.2 U        | 0.2 U        | --         |
| X-4CAUG               | 18 - 23              | 06/08/96        | 5.0 U        | 5.0 U                      | 5.0 U                  | 25 U              | 5.0 U        | 5.0 U  | 5.0 U  | 5.0 U                | 0.2 U        | 0.2 U        | 0.4 U        | 0.2 U        | 0.2 U        | 0.2 U        | 0.2 U        | --         |
| X-4CAUGR              | 18-23                | 09/28/16        | --           | --                         | --                     | --                | --           | --     | --     | --                   | --           | --           | --           | --           | --           | --           | --           | --         |
| X-4D                  | 40 - 45              | 01/09/08        | 3.0 U        | 5.0 U                      | 5.0 U                  | 5.0 U             | 2.0 U        | 5.0 U  | 5.0 U  | 5.0 U                | 0.20 U       | 0.20 U       | 0.20 U       | 0.20 U       | 0.20 U       | 0.20 U       | 0.20 U       | 0.20 U     |
| X-4D                  | 40 - 45              | 04/02/08        | 3.0 U        | 5.0 U                      | 5.0 U                  | 5.0 U             | 2.0 U        | 5.0 U  | 5.0 U  | 5.0 U                | 0.20 U       | 0.20 U       | 0.20 U       | 0.20 U       | 0.20 U       | 0.20 U       | 0.20 U       | 0.20 U     |
| X-4D                  | 40 - 45              | 09/28/16        | --           | --                         | --                     | --                | --           | --     | --     | --                   | --           | --           | --           | --           | --           | --           | --           | --         |
| X-9AR                 | 3 - 13               | 07/24/95        | 5.0 U        | 5.0 U                      | 5.0 U                  | 25 U              | 5.0 U        | 5.0 U  | 5.0 U  | 5.0 U                | 0.2 UJ       | 0.2 UJ       | 0.4 UJ       | 0.2 UJ       | 0.2 UJ       | 0.2 UJ       | 0.2 UJ       | --         |
| X-9AR                 | 3 - 13               | 06/09/96        | 5.0 U        | 5.0 U                      | 5.0 U                  | 25 U              | 5.0 U        | 5.0 U  | 5.0 U  | 5.0 U                | 0.2 U        | 0.2 U        | 0.4 U        | 0.2 U        | 0.2 U        | 0.2 U        | 0.2 U        | --         |
| X-9AR                 | 3 - 13               | 03/05/97        | --           | --                         | --                     | --                | --           | --     | --     | --                   | 0.2 U        | 0.2 U        | 0.4 U        | 0.2 U        | 0.2 U        | 0.2 U        | 0.2 U        | --         |
| X-9AR                 | 3 - 13               | 12/15/06        | --           | --                         | --                     | --                | --           | --     | --     | --                   | --           | --           | --           | --           | --           | --           | --           | --         |
| X-9AR                 | 3 - 13               | 09/28/16        | --           | --                         | --                     | --                | --           | --     | --     | --                   | --           | --           | --           | --           | --           | --           | --           | --         |

Table 2  
Analytical Data Summary Table - GPL Organics  
Saginaw, MI  
RACER Trust



| Semivolatile Organics |                      |                 |              |                            |                        |                   |              |        |        |                      | PCBs         |              |              |              |              |              |              |            |
|-----------------------|----------------------|-----------------|--------------|----------------------------|------------------------|-------------------|--------------|--------|--------|----------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|------------|
| Sample ID:            | Sample Depth (feet): | Date Collected: | Nitrobenzene | N-Nitroso-di-n-propylamine | N-Nitrosodiphenylamine | Pentachlorophenol | Phenanthrene | Phenol | Pyrene | Total Methyl phenols | Aroclor-1016 | Aroclor-1221 | Aroclor-1232 | Aroclor-1242 | Aroclor-1248 | Aroclor-1254 | Aroclor-1260 | Total PCBs |
| MDEQ GSI Criteria     |                      |                 | 180 (X)      | NA                         | NA                     | (G,X)             | 2.0 (M); 1.4 | 450    | ID     | 30 (M); 25           | --           | --           | --           | --           | --           | --           | --           | 0.2 (M)    |
| X-9BR                 | 26 - 31              | 07/24/95        | 5.0 U        | 5.0 U                      | 5.0 U                  | 25 U              | 5.0 U        | 4.7 J  | 5.0 U  | 5.0 U                | 0.2 UJ       | 0.2 UJ       | 0.4 UJ       | 0.2 UJ       | 0.2 UJ       | 0.2 UJ       | 0.2 UJ       | --         |
| X-9BR                 | 26 - 31              | 06/08/96        | 5.0 U        | 5.0 U                      | 5.0 U                  | 25 U              | 5.0 U        | 5.0 U  | 5.0 U  | 5.0 U                | 0.2 U        | 0.2 U        | 0.4 U        | 0.2 U        | 0.2 U        | 0.2 U        | 0.2 U        | --         |
| X-9BR                 | 26 - 31              | 12/15/06        | 3.0 U        | 5.0 U                      | 5.0 U                  | 5.0 U             | 2.0 U        | 5.0 U  | 5.0 U  | 5.0 U                | 0.20 U       | 0.20 U       | 0.20 U       | 0.20 U       | 0.20 U       | 0.20 U       | 0.20 U       | 0.20 U     |
| X-9BR                 | 26 - 31              | 09/28/16        | --           | --                         | --                     | --                | --           | --     | --     | --                   | --           | --           | --           | --           | --           | --           | --           | --         |
| X-9CAUG               | 20 - 25              | 07/24/95        | 5.0 U        | 5.0 U                      | 5.0 U                  | 25 U              | 5.0 U        | 5.0 U  | 5.0 U  | 5.0 U                | 0.2 U        | 0.2 U        | 0.4 U        | 0.2 U        | 0.2 U        | 0.2 U        | 0.2 U        | --         |
| X-9CAUG               | 20 - 25              | 06/08/96        | 5.0 U        | 5.0 U                      | 5.0 U                  | 25 U              | 5.0 U        | 5.0 U  | 5.0 U  | 5.0 U                | 0.2 U        | 0.2 U        | 0.4 U        | 0.2 U        | 0.2 U        | 0.2 U        | 0.2 U        | --         |
| X-9CAUG               | 20 - 25              | 12/15/06        | 3.0 U        | 5.0 U                      | 5.0 U                  | 5.0 U             | 2.0 U        | 5.0 U  | 5.0 U  | 5.0 U                | 0.20 U       | 0.20 U       | 0.20 U       | 0.20 U       | 0.20 U       | 0.20 U       | 0.20 U       | 0.20 U     |
| X-9CAUG               | 20 - 25              | 09/28/16        | --           | --                         | --                     | --                | --           | --     | --     | --                   | --           | --           | --           | --           | --           | --           | --           | --         |
| X-9D                  | 42.5 - 47.5          | 01/08/08        | 3.0 U        | 5.0 U                      | 5.0 U                  | 5.0 U             | 2.0 U        | 5.0 U  | 5.0 U  | 5.0 U                | 0.20 U       | 0.20 U       | 0.20 U       | 0.20 U       | 0.20 U       | 0.20 U       | 0.20 U       | 0.20 U     |
| X-9D                  | 42.5 - 47.5          | 03/11/08        | 3.0 U        | 5.0 U                      | 5.0 U                  | 5.0 U             | 2.0 U        | 5.0 U  | 5.0 U  | 5.0 U                | 0.20 U       | 0.20 U       | 0.20 U       | 0.20 U       | 0.20 U       | 0.20 U       | 0.20 U       | 0.20 U     |
| X-9D                  | 42.5 - 47.5          | 09/28/16        | --           | --                         | --                     | --                | --           | --     | --     | --                   | --           | --           | --           | --           | --           | --           | --           | --         |



Table 2  
Analytical Data Summary Table - GPL Organics  
Saginaw, MI  
RACER Trust



|                   |                      |                 | PCBs                     |                          |                          |                          |                          |                          |                          |                        |
|-------------------|----------------------|-----------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------------------------|
| Sample ID:        | Sample Depth (feet): | Date Collected: | Aroclor-1016 (Dissolved) | Aroclor-1221 (Dissolved) | Aroclor-1232 (Dissolved) | Aroclor-1242 (Dissolved) | Aroclor-1248 (Dissolved) | Aroclor-1254 (Dissolved) | Aroclor-1260 (Dissolved) | Total PCBs (Dissolved) |
| MDEQ GSI Criteria |                      |                 | --                       | --                       | --                       | --                       | --                       | --                       | --                       | 0.2 (M)                |
| MW-117S1          | 24.2 - 29.2          | 06/20/95        | 0.2 U                    | 0.2 U                    | 0.4 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.4 U                  |
| MW-117S1          | 24.2 - 29.2          | 05/19/00        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| MW-117S1          | 24.2 - 29.2          | 06/19/01        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| MW-117S1          | 24.2 - 29.2          | 06/26/02        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| MW-117S1          | 24.2 - 29.2          | 06/19/03        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| MW-117S1          | 24.2 - 29.2          | 05/27/04        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| MW-117S1          | 24.2 - 29.2          | 06/23/05        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| MW-117S1          | 24.2 - 29.2          | 12/13/06        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| MW-117S1          | 24.2 - 29.2          | 09/27/16        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| MW-117S2          | 35 - 40              | 06/20/95        | 0.2 U                    | 0.2 U                    | 0.4 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.4 U                  |
| MW-117S2          | 35 - 40              | 05/20/00        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| MW-117S2          | 35 - 40              | 12/13/06        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| MW-117WT          | 3 - 13               | 06/20/95        | 0.2 U                    | 0.2 U                    | 0.4 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.4 U                  |
| MW-117WT          | 3 - 13               | 05/19/00        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| MW-117WT          | 3 - 13               | 06/18/01        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| MW-117WT          | 3 - 13               | 06/26/02        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| MW-117WT          | 3 - 13               | 06/19/03        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| MW-117WT          | 3 - 13               | 12/09/04        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| MW-117WT          | 3 - 13               | 06/23/05        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| MW-117WT          | 3 - 13               | 12/13/06        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| MW-117WT          | 3 - 13               | 09/27/16        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| MW-117WT          | 3 - 13               | 10/13/16        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| MW-118S1          | 23.5 - 28.5          | 06/20/95        | 0.2 U                    | 0.2 U                    | 0.4 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.4 U                  |
| MW-118S1          | 23.5 - 28.5          | 05/17/00        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| MW-118S1          | 23.5 - 28.5          | 06/19/01        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| MW-118S1          | 23.5 - 28.5          | 06/27/02        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| MW-118S1          | 23.5 - 28.5          | 06/19/03        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| MW-118S1          | 23.5 - 28.5          | 12/09/04        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| MW-118S1          | 23.5 - 28.5          | 06/23/05        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| MW-118S1          | 23.5 - 28.5          | 12/14/06        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| MW-118S1          | 23.5 - 28.5          | 09/27/16        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| MW-118S2          | 38.5 - 43.5          | 06/20/95        | 0.2 U [0.2 U]            | 0.2 U [0.2 U]            | 0.4 U [0.4 U]            | 0.2 U [0.2 U]            | 0.2 U [0.2 U]            | 0.2 U [0.2 U]            | 0.2 U [0.2 U]            | 0.4 U [0.4 U]          |
| MW-118S2          | 38.5 - 43.5          | 12/14/06        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |

Table 2  
Analytical Data Summary Table - GPL Organics  
Saginaw, MI  
RACER Trust



|                   |                      |                 | PCBs                     |                          |                          |                          |                          |                          |                          |                        |
|-------------------|----------------------|-----------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------------------------|
| Sample ID:        | Sample Depth (feet): | Date Collected: | Aroclor-1016 (Dissolved) | Aroclor-1221 (Dissolved) | Aroclor-1232 (Dissolved) | Aroclor-1242 (Dissolved) | Aroclor-1248 (Dissolved) | Aroclor-1254 (Dissolved) | Aroclor-1260 (Dissolved) | Total PCBs (Dissolved) |
| MDEQ GSI Criteria |                      |                 | --                       | --                       | --                       | --                       | --                       | --                       | --                       | 0.2 (M)                |
| MW-118WT          | 1.6 - 11.6           | 06/20/95        | 0.2 U                    | 0.2 U                    | 0.4 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.4 U                  |
| MW-118WT          | 1.6 - 11.6           | 05/17/00        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| MW-118WT          | 1.6 - 11.6           | 06/19/01        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| MW-118WT          | 1.6 - 11.6           | 06/27/02        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| MW-118WT          | 1.6 - 11.6           | 06/19/03        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| MW-118WT          | 1.6 - 11.6           | 05/27/04        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| MW-118WT          | 1.6 - 11.6           | 06/23/05        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| MW-118WT          | 1.6 - 11.6           | 12/14/06        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| MW-118WT          | 1.6 - 11.6           | 09/27/16        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| MW-183WT          | 6 - 16               | 08/17/00        | 0.2 U                    | 0.2 U                    | 0.4 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.4 U                  |
| MW-183WT          | 6 - 16               | 09/28/16        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| TWW-1             | 1.5 - 6.5            | 01/25/97        | 0.2 U                    | 0.2 U                    | 0.4 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.4 U                  |
| TWW-1             | 1.5 - 6.5            | 08/08/98        | 0.2 U                    | 0.2 U                    | 0.4 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.4 U                  |
| TWW-1             | 1.5 - 6.5            | 05/18/99        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| TWW-1             | 1.5 - 6.5            | 05/21/00        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| TWW-1             | 1.5 - 6.5            | 09/29/10        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| TWW-1             | 1.5 - 6.5            | 09/21/11        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| TWW-1             | 1.5 - 6.5            | 09/14/12        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| TWW-1             | 1.5 - 6.5            | 09/24/13        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| TWW-1             | 1.5 - 6.5            | 09/23/14        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| TWW-1             | 1.5 - 6.5            | 10/01/15        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| TWW-1             | 1.5 - 6.5            | 09/27/16        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| TWW-1 Dup         | 1.5 - 6.5            | 09/27/16        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| X-10BR            | 26.3 - 31.3          | 07/24/95        | 0.2 U                    | 0.2 U                    | 0.4 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.4 U                  |
| X-10BR            | 26.3 - 31.3          | 12/15/06        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| X-4A              | 6.2 - 9.2            | 12/14/06        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| X-4AR             | 3.3 - 8.3            | 07/24/95        | 0.2 U                    | 0.2 U                    | 0.4 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.4 U                  |
| X-4AR             | 3.3 - 8.3            | 06/09/96        | 0.2 U                    | 0.2 U                    | 0.4 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.4 U                  |
| X-4AR             | 3.3 - 8.3            | 03/05/97        | 0.2 U                    | 0.2 U                    | 0.4 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.4 U                  |
| X-4CAUG           | 18 - 23              | 07/24/95        | 0.2 UJ                   | 0.2 UJ                   | 0.4 UJ                   | 0.2 UJ                   | 0.2 UJ                   | 0.2 UJ                   | 0.2 UJ                   | 0.4 U                  |
| X-4CAUG           | 18 - 23              | 06/08/96        | 0.2 U                    | 0.2 U                    | 0.4 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.4 U                  |
| X-4CAUGR          | 18-23                | 09/28/16        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| X-4D              | 40 - 45              | 01/09/08        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| X-4D              | 40 - 45              | 04/02/08        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| X-4D              | 40 - 45              | 09/28/16        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| X-9AR             | 3 - 13               | 07/24/95        | 0.2 U                    | 0.2 U                    | 0.4 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.4 U                  |
| X-9AR             | 3 - 13               | 06/09/96        | 0.2 U                    | 0.2 U                    | 0.4 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.4 U                  |
| X-9AR             | 3 - 13               | 03/05/97        | 0.2 U                    | 0.2 U                    | 0.4 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.4 U                  |
| X-9AR             | 3 - 13               | 12/15/06        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| X-9AR             | 3 - 13               | 09/28/16        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |

Table 2  
Analytical Data Summary Table - GPL Organics  
Saginaw, MI  
RACER Trust

|                   |                      |                 | PCBs                     |                          |                          |                          |                          |                          |                          |                        |
|-------------------|----------------------|-----------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------------------------|
| Sample ID:        | Sample Depth (feet): | Date Collected: | Aroclor-1016 (Dissolved) | Aroclor-1221 (Dissolved) | Aroclor-1232 (Dissolved) | Aroclor-1242 (Dissolved) | Aroclor-1248 (Dissolved) | Aroclor-1254 (Dissolved) | Aroclor-1260 (Dissolved) | Total PCBs (Dissolved) |
| MDEQ GSI Criteria |                      |                 | --                       | --                       | --                       | --                       | --                       | --                       | --                       | 0.2 (M)                |
| X-9BR             | 26 - 31              | 07/24/95        | 0.2 U                    | 0.2 U                    | 0.4 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.4 U                  |
| X-9BR             | 26 - 31              | 06/08/96        | 0.2 U                    | 0.2 U                    | 0.4 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.4 U                  |
| X-9BR             | 26 - 31              | 12/15/06        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| X-9BR             | 26 - 31              | 09/28/16        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| X-9CAUG           | 20 - 25              | 07/24/95        | 0.2 U                    | 0.2 U                    | 0.4 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.4 U                  |
| X-9CAUG           | 20 - 25              | 06/08/96        | 0.2 U                    | 0.2 U                    | 0.4 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.4 U                  |
| X-9CAUG           | 20 - 25              | 12/15/06        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| X-9CAUG           | 20 - 25              | 09/28/16        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| X-9D              | 42.5 - 47.5          | 01/08/08        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| X-9D              | 42.5 - 47.5          | 03/11/08        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |
| X-9D              | 42.5 - 47.5          | 09/28/16        | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     |

Table 2  
Analytical Data Summary Table - SMI Organics  
Saginaw, MI  
RACER Trust



| Sample ID:        | Sample Depth (feet): | Date Collected: | Volatile Organics     |                           |                                       |                       |                |                    |                  |                        |                             |                   |                     |                |                            |                     |                 |                     |            |            |
|-------------------|----------------------|-----------------|-----------------------|---------------------------|---------------------------------------|-----------------------|----------------|--------------------|------------------|------------------------|-----------------------------|-------------------|---------------------|----------------|----------------------------|---------------------|-----------------|---------------------|------------|------------|
|                   |                      |                 | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachloroethane | 1,1,2-trichloro-1,2,2-trifluoroethane | 1,1,2-Trichloroethane | Dichloroethane | 1,1-Dichloroethene | Trichlorobenzene | 1,2,4-Trichlorobenzene | 1,2-Dibromo-3-chloropropane | 1,2-Dibromoethane | 1,2-Dichlorobenzene | Dichloroethane | 1,2-Dichloroethene (total) | 1,2-Dichloropropane | Dichlorobenzene | 1,4-Dichlorobenzene | 2-Butanone | 2-Hexanone |
| MDEQ GSI Criteria |                      |                 | 89                    | 78 (X)                    | 32                                    | 330 (X)               | 740            | 130                | 99 (X)           | --                     | 5.7 (X)                     | 13                | 360 (X)             | 130            | 230 (X)                    | 28                  | 17              | 2,200               | ID         |            |
| MW-107S1          | 12.5 - 17.5          | 07/12/95        | 1.0 U                 | 1.0 U                     | --                                    | 1.0 U                 | 1.0 U          | 1.0 U              | --               | --                     | --                          | 1.0 U             | 1.0 U               | 1.0 U          | 1.0 U                      | 1.0 U               | 1.0 U           | 50 U                | 50 UJ      |            |
| MW-107S1          | 12.5 - 17.5          | 06/07/96        | 1.0 U                 | 1.0 U                     | --                                    | 1.0 U                 | 1.0 U          | 1.0 U              | --               | --                     | --                          | 1.0 U             | 1.0 U               | 1.0 U          | 1.0 U                      | 1.0 U               | 1.0 U           | 50 U                | 50 U       |            |
| MW-107S1          | 12.5 - 17.5          | 09/29/16        | --                    | --                        | --                                    | --                    | --             | --                 | --               | --                     | --                          | --                | --                  | --             | --                         | --                  | --              | --                  | --         |            |
| MW-107WT          | 4 - 9                | 07/12/95        | 1.0 U                 | 1.0 U                     | --                                    | 1.0 U                 | 1.0 U          | 1.0 U              | --               | --                     | --                          | 1.0 U             | 1.0 U               | 1.0 U          | 1.0 U                      | 1.0 U               | 1.0 U           | 50 U                | 50 UJ      |            |
| MW-107WT          | 4 - 9                | 06/07/96        | 1.0 U                 | 1.0 U                     | --                                    | 1.0 U                 | 1.0 U          | 1.0 U              | --               | --                     | --                          | 1.0 U             | 1.0 U               | 1.0 U          | 1.0 U                      | 1.0 U               | 1.0 U           | 50 U                | 50 U       |            |
| MW-107WT          | 4 - 9                | 03/10/97        | --                    | --                        | --                                    | --                    | --             | --                 | --               | --                     | --                          | --                | --                  | --             | --                         | --                  | --              | --                  | --         |            |
| MW-107WT          | 4 - 9                | 09/29/16        | --                    | --                        | --                                    | --                    | --             | --                 | --               | --                     | --                          | --                | --                  | --             | --                         | --                  | --              | --                  | --         |            |
| MW-108S2          | 22 - 27              | 07/13/95        | 1.0 U                 | 1.0 U                     | --                                    | 1.0 U                 | 1.0 U          | 1.0 U              | --               | --                     | --                          | 1.0 U             | 1.0 U               | 1.0 U          | 1.0 U                      | 1.0 U               | 1.0 U           | 50 UJ               | R          |            |
| MW-108S2          | 22 - 27              | 06/08/96        | 1.0 U                 | 1.0 U                     | --                                    | 1.0 U                 | 1.0 U          | 1.0 U              | --               | --                     | --                          | 1.0 U             | 1.0 U               | 1.0 U          | 1.0 U                      | 1.0 U               | 1.0 U           | 50 U                | 50 U       |            |
| MW-108S2          | 22 - 27              | 09/29/16        | --                    | --                        | --                                    | --                    | --             | --                 | --               | --                     | --                          | --                | --                  | --             | --                         | --                  | --              | --                  | --         |            |
| MW-108WT          | 2.5 - 7.5            | 07/13/95        | 1.0 U                 | 1.0 U                     | --                                    | 1.0 U                 | 1.0 U          | 1.0 U              | --               | --                     | --                          | 1.0 U             | 1.0 U               | 1.0 U          | 1.0 U                      | 1.0 U               | 1.0 U           | 50 U                | R          |            |
| MW-108WT          | 2.5 - 7.5            | 06/08/96        | 1.0 U                 | 1.0 U                     | --                                    | 1.0 U                 | 1.0 U          | 1.0 U              | --               | --                     | --                          | 1.0 U             | 1.0 U               | 1.0 U          | 1.0 U                      | 1.0 U               | 1.0 U           | 50 U                | 50 U       |            |
| MW-108WT          | 2.5 - 7.5            | 03/10/97        | --                    | --                        | --                                    | --                    | --             | --                 | --               | --                     | --                          | --                | --                  | --             | --                         | --                  | --              | --                  | --         |            |
| MW-108WT          | 2.5 - 7.5            | 09/29/16        | --                    | --                        | --                                    | --                    | --             | --                 | --               | --                     | --                          | --                | --                  | --             | --                         | --                  | --              | --                  | --         |            |
| MW-108WT          | 2.5 - 7.5            | 10/13/16        | 1.0 U                 | 1.0 U                     | 1.0 U                                 | --                    | 1.0 U          | 1.0 U              | 1.0 U            | 2.0 U                  | 1.0 U                       | 1.0 U             | 1.0 U               | --             | 1.0 U                      | 1.0 U               | 1.0 U           | 10 U                | 10 U       |            |
| MW-110WT          | UNKNOWN              | 06/12/96        | 1.0 U                 | 1.0 U                     | --                                    | 1.0 U                 | 1.0 U          | 1.0 U              | --               | --                     | --                          | 1.0 U             | 1.0 U               | 1.0 U          | 1.0 U                      | 1.0 U               | 1.0 U           | 50 U                | 50 U       |            |
| MW-110WT          | UNKNOWN              | 03/06/97        | --                    | --                        | --                                    | --                    | --             | --                 | --               | --                     | --                          | --                | --                  | --             | --                         | --                  | --              | --                  | --         |            |
| MW-110WT          | UNKNOWN              | 12/10/97        | 100 U                 | 100 U                     | --                                    | 100 U                 | 100 U          | 5.2                | --               | --                     | --                          | 12                | 100 U               | 3,900          | 100 U                      | 100 U               | 14              | 1,000 UJ            | 1,000 UJ   |            |
| MW-110WT          | UNKNOWN              | 05/22/00        | --                    | --                        | --                                    | --                    | --             | --                 | --               | --                     | --                          | --                | --                  | --             | --                         | --                  | --              | --                  | --         |            |
| MW-110WTR         | 10 - 15              | 06/02/04        | --                    | --                        | --                                    | --                    | --             | --                 | --               | --                     | --                          | --                | --                  | --             | --                         | --                  | --              | --                  | --         |            |
| MW-110WTR         | 10 - 15              | 08/24/05        | --                    | --                        | --                                    | --                    | --             | --                 | --               | --                     | --                          | --                | --                  | --             | --                         | --                  | --              | --                  | --         |            |
| MW-110WTR         | 10 - 15              | 04/02/08        | --                    | --                        | --                                    | --                    | --             | --                 | --               | --                     | --                          | --                | --                  | --             | --                         | --                  | --              | --                  | --         |            |
| MW-110WTR         | 10 - 15              | 09/24/14        | --                    | --                        | --                                    | --                    | --             | --                 | --               | --                     | --                          | --                | --                  | --             | --                         | --                  | --              | --                  | --         |            |
| MW-110WTR         | 10 - 15              | 10/01/15        | --                    | --                        | --                                    | --                    | --             | --                 | --               | --                     | --                          | --                | --                  | --             | --                         | --                  | --              | --                  | --         |            |
| MW-110WTR         | 10 - 15              | 09/29/16        | --                    | --                        | --                                    | --                    | --             | --                 | --               | --                     | --                          | --                | --                  | --             | --                         | --                  | --              | --                  | --         |            |
| MW-110WTR         | 10 - 15              | 10/13/16        | 1.0 U                 | 1.0 U                     | 1.0 U                                 | --                    | 1.0 U          | 1.0 U              | 1.0 U            | 2.0 U                  | 1.0 U                       | 1.0 U             | 1.0 U               | --             | 1.0 U                      | 1.0 U               | 1.0 U           | 10 U                | 10 U       |            |
| MW-111WT          | 5.5 - 10.5           | 07/14/95        | 1.0 U                 | 1.0 U                     | --                                    | 1.0 U                 | 1.0 U          | 1.0 U              | --               | --                     | --                          | 1.0 U             | 1.0 U               | 1.0 U          | 1.0 U                      | 1.0 U               | 1.0 U           | 50 UJ               | R          |            |
| MW-111WT          | 5.5 - 10.5           | 06/12/96        | 1.0 U                 | 1.0 U                     | --                                    | 1.0 U                 | 1.0 U          | 1.0 U              | --               | --                     | --                          | 1.0 U             | 1.0 U               | 1.0 U          | 1.0 U                      | 1.0 U               | 1.0 U           | 50 U                | 50 U       |            |
| MW-111WT          | 5.5 - 10.5           | 03/07/97        | --                    | --                        | --                                    | --                    | --             | --                 | --               | --                     | --                          | --                | --                  | --             | --                         | --                  | --              | --                  | --         |            |
| MW-111WT          | 5.5 - 10.5           | 06/30/99        | --                    | --                        | --                                    | --                    | --             | --                 | --               | --                     | --                          | --                | --                  | --             | --                         | --                  | --              | --                  | --         |            |
| MW-111WT          | 5.5 - 10.5           | 05/19/00        | --                    | --                        | --                                    | --                    | --             | --                 | --               | --                     | --                          | --                | --                  | --             | --                         | --                  | --              | --                  | --         |            |
| MW-111WT          | 5.5 - 10.5           | 04/05/01        | --                    | --                        | --                                    | --                    | --             | --                 | --               | --                     | --                          | --                | --                  | --             | --                         | --                  | --              | --                  | --         |            |
| MW-111WT          | 5.5 - 10.5           | 06/02/04        | --                    | --                        | --                                    | --                    | --             | --                 | --               | --                     | --                          | --                | --                  | --             | --                         | --                  | --              | --                  | --         |            |
| MW-111WT          | 5.5 - 10.5           | 08/26/05        | --                    | --                        | --                                    | --                    | --             | --                 | --               | --                     | --                          | --                | --                  | --             | --                         | --                  | --              | --                  | --         |            |
| MW-111WT          | 5.5 - 10.5           | 04/02/08        | --                    | --                        | --                                    | --                    | --             | --                 | --               | --                     | --                          | --                | --                  | --             | --                         | --                  | --              | --                  | --         |            |
| MW-111WT          | 5.5-10.5             | 09/18/12        | --                    | --                        | --                                    | --                    | --             | --                 | --               | --                     | --                          | --                | --                  | --             | --                         | --                  | --              | --                  | --         |            |
| MW-111WT          | 5.5-10.5             | 09/26/13        | --                    | --                        | --                                    | --                    | --             | --                 | --               | --                     | --                          | --                | --                  | --             | --                         | --                  | --              | --                  | --         |            |
| MW-111WT          | 5.5-10.5             | 09/23/14        | --                    | --                        | --                                    | --                    | --             | --                 | --               | --                     | --                          | --                | --                  | --             | --                         | --                  | --              | --                  | --         |            |

Table 2  
Analytical Data Summary Table - SMI Organics  
Saginaw, MI  
RACER Trust



| Sample ID:        | Sample Depth (feet): | Date Collected: | Volatile Organics     |                           |                                       |                       |                    |                    |                        |                             |                   |                     |                    |                            |                     |                     |                     |            |            |
|-------------------|----------------------|-----------------|-----------------------|---------------------------|---------------------------------------|-----------------------|--------------------|--------------------|------------------------|-----------------------------|-------------------|---------------------|--------------------|----------------------------|---------------------|---------------------|---------------------|------------|------------|
|                   |                      |                 | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachloroethane | 1,1,2-trichloro-1,2,2-trifluoroethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2,4-Trichlorobenzene | 1,2-Dibromo-3-chloropropane | 1,2-Dibromoethane | 1,2-Dichlorobenzene | 1,2-Dichloroethane | 1,2-Dichloroethene (total) | 1,2-Dichloropropane | 1,3-Dichlorobenzene | 1,4-Dichlorobenzene | 2-Butanone | 2-Hexanone |
| MDEQ GSI Criteria |                      |                 | 89                    | 78 (X)                    | 32                                    | 330 (X)               | 740                | 130                | 99 (X)                 | --                          | 5.7 (X)           | 13                  | 360 (X)            | 130                        | 230 (X)             | 28                  | 17                  | 2,200      | ID         |
| MW-111WT          | 5.5-10.5             | 10/01/15        | --                    | --                        | --                                    | --                    | --                 | --                 | --                     | --                          | --                | --                  | --                 | --                         | --                  | --                  | --                  | --         | --         |
| MW-111WT          | 5.5 - 10.5           | 09/29/16        | --                    | --                        | --                                    | --                    | --                 | --                 | --                     | --                          | --                | --                  | --                 | --                         | --                  | --                  | --                  | --         | --         |
| MW-114S2          | 22.5 - 27.5          | 07/17/95        | 1.0 U                 | 1.0 U                     | --                                    | 1.0 U                 | 1.0 U              | 1.0 U              | --                     | --                          | --                | 1.0 U               | 1.0 U              | 1.0 U                      | 1.0 U               | 1.0 U               | 1.0 U               | 50 U       | R          |
| MW-114S2          | 22.5 - 27.5          | 06/07/96        | 1.0 U                 | 1.0 U                     | --                                    | 1.0 U                 | 1.0 U              | 1.0 U              | --                     | --                          | --                | 1.0 U               | 1.0 U              | 1.0 U                      | 1.0 U               | 1.0 U               | 1.0 U               | 50 U       | 50 U       |
| MW-114S2          | 22.5 - 27.5          | 09/29/16        | --                    | --                        | --                                    | --                    | --                 | --                 | --                     | --                          | --                | --                  | --                 | --                         | --                  | --                  | --                  | --         | --         |
| MW-114WT          | 3.5 - 8.5            | 06/08/96        | 1.0 U                 | 1.0 U                     | --                                    | 1.0 U                 | 1.0 U              | 1.0 U              | --                     | --                          | --                | 1.0 U               | 1.0 U              | 1.0 U                      | 1.0 U               | 1.0 U               | 1.0 U               | 50 U       | 50 U       |
| MW-114WT          | 3.5 - 8.5            | 06/08/96        | 1.0 U                 | 1.0 U                     | --                                    | 1.0 U                 | 1.0 U              | 1.0 U              | --                     | --                          | --                | 1.0 U               | 1.0 U              | 1.0 U                      | 1.0 U               | 1.0 U               | 1.0 U               | 50 U       | 50 U       |
| MW-114WT          | 3.5 - 8.5            | 03/06/97        | --                    | --                        | --                                    | --                    | --                 | --                 | --                     | --                          | --                | --                  | --                 | --                         | --                  | --                  | --                  | --         | --         |
| MW-114WT          | 3.5 - 8.5            | 03/06/97        | --                    | --                        | --                                    | --                    | --                 | --                 | --                     | --                          | --                | --                  | --                 | --                         | --                  | --                  | --                  | --         | --         |
| MW-114WT          | 3.5 - 8.5            | 12/11/97        | 1.0 U                 | 1.0 U                     | --                                    | 1.0 U                 | 1.0 U              | 1.0 U              | --                     | --                          | --                | 1.0 U               | 1.0 U              | 1.0 U                      | 1.0 U               | 1.0 U               | 1.0 U               | 50 U       | 50 U       |
| MW-114WT          | 3.5 - 8.5            | 12/11/97        | 1.0 U                 | 1.0 U                     | --                                    | 1.0 U                 | 1.0 U              | 1.0 U              | --                     | --                          | --                | 1.0 U               | 1.0 U              | 1.0 U                      | 1.0 U               | 1.0 U               | 1.0 U               | 50 U       | 50 U       |
| MW-114WT          | 3.5 - 8.5            | 05/22/00        | --                    | --                        | --                                    | --                    | --                 | --                 | --                     | --                          | --                | --                  | --                 | --                         | --                  | --                  | --                  | --         | --         |
| MW-114WT          | 3.5 - 8.5            | 04/05/01        | --                    | --                        | --                                    | --                    | --                 | --                 | --                     | --                          | --                | --                  | --                 | --                         | --                  | --                  | --                  | --         | --         |
| MW-114WT          | 3.5 - 8.5            | 06/03/04        | --                    | --                        | --                                    | --                    | --                 | --                 | --                     | --                          | --                | --                  | --                 | --                         | --                  | --                  | --                  | --         | --         |
| MW-114WT          | 3.5 - 8.5            | 08/24/05        | --                    | --                        | --                                    | --                    | --                 | --                 | --                     | --                          | --                | --                  | --                 | --                         | --                  | --                  | --                  | --         | --         |
| MW-114WT          | 3.5 - 8.5            | 09/26/13        | --                    | --                        | --                                    | --                    | --                 | --                 | --                     | --                          | --                | --                  | --                 | --                         | --                  | --                  | --                  | --         | --         |
| MW-114WT          | 3.5 - 8.5            | 09/23/14        | --                    | --                        | --                                    | --                    | --                 | --                 | --                     | --                          | --                | --                  | --                 | --                         | --                  | --                  | --                  | --         | --         |
| MW-114WT          | 3.5 - 8.5            | 10/02/15        | --                    | --                        | --                                    | --                    | --                 | --                 | --                     | --                          | --                | --                  | --                 | --                         | --                  | --                  | --                  | --         | --         |
| MW-114WT          | 3.5 - 8.5            | 09/29/16        | --                    | --                        | --                                    | --                    | --                 | --                 | --                     | --                          | --                | --                  | --                 | --                         | --                  | --                  | --                  | --         | --         |
| MW-149WT          | 7 - 17               | 06/12/96        | 1.0 U                 | 1.0 U                     | --                                    | 1.0 U                 | 1.0 U              | 1.0 U              | --                     | --                          | --                | 1.0 U               | 1.0 U              | 1.0 U                      | 1.0 U               | 1.0 U               | 1.0 U               | 50 U       | 50 U       |
| MW-149WT          | 7 - 17               | 03/10/97        | --                    | --                        | --                                    | --                    | --                 | --                 | --                     | --                          | --                | --                  | --                 | --                         | --                  | --                  | --                  | --         | --         |
| MW-149WT          | 7 - 17               | 09/29/16        | --                    | --                        | --                                    | --                    | --                 | --                 | --                     | --                          | --                | --                  | --                 | --                         | --                  | --                  | --                  | --         | --         |
| MW-185WT          | 3 - 8                | 06/03/04        | --                    | --                        | --                                    | --                    | --                 | --                 | --                     | --                          | --                | --                  | --                 | --                         | --                  | --                  | --                  | --         | --         |
| MW-185WT          | 3 - 8                | 08/25/05        | --                    | --                        | --                                    | --                    | --                 | --                 | --                     | --                          | --                | --                  | --                 | --                         | --                  | --                  | --                  | --         | --         |
| MW-185WT          | 3 - 8                | 11/28/07        | --                    | --                        | --                                    | --                    | --                 | --                 | --                     | --                          | --                | --                  | --                 | --                         | --                  | --                  | --                  | --         | --         |
| MW-185WT          | 3 - 8                | 09/18/12        | --                    | --                        | --                                    | --                    | --                 | --                 | --                     | --                          | --                | --                  | --                 | --                         | --                  | --                  | --                  | --         | --         |
| MW-185WT          | 3 - 8                | 09/25/13        | --                    | --                        | --                                    | --                    | --                 | --                 | --                     | --                          | --                | --                  | --                 | --                         | --                  | --                  | --                  | --         | --         |
| MW-185WT          | 3 - 8                | 09/24/14        | --                    | --                        | --                                    | --                    | --                 | --                 | --                     | --                          | --                | --                  | --                 | --                         | --                  | --                  | --                  | --         | --         |
| MW-185WT          | 3 - 8                | 10/01/15        | --                    | --                        | --                                    | --                    | --                 | --                 | --                     | --                          | --                | --                  | --                 | --                         | --                  | --                  | --                  | --         | --         |
| MW-185WT          | 3 - 8                | 09/30/16        | --                    | --                        | --                                    | --                    | --                 | --                 | --                     | --                          | --                | --                  | --                 | --                         | --                  | --                  | --                  | --         | --         |
| MW-186WT          | 8-18                 | 09/30/10        | --                    | --                        | --                                    | --                    | --                 | --                 | --                     | --                          | --                | --                  | --                 | --                         | --                  | --                  | --                  | --         | --         |
| MW-186WT          | 8-18                 | 09/23/11        | --                    | --                        | --                                    | --                    | --                 | --                 | --                     | --                          | --                | --                  | --                 | --                         | --                  | --                  | --                  | --         | --         |
| MW-186WT          | 8-18                 | 09/18/12        | --                    | --                        | --                                    | --                    | --                 | --                 | --                     | --                          | --                | --                  | --                 | --                         | --                  | --                  | --                  | --         | --         |
| MW-186WT          | 8-18                 | 09/25/13        | --                    | --                        | --                                    | --                    | --                 | --                 | --                     | --                          | --                | --                  | --                 | --                         | --                  | --                  | --                  | --         | --         |
| MW-186WT          | 8-18                 | 09/24/14        | --                    | --                        | --                                    | --                    | --                 | --                 | --                     | --                          | --                | --                  | --                 | --                         | --                  | --                  | --                  | --         | --         |
| MW-186WT          | 8-18                 | 10/02/15        | --                    | --                        | --                                    | --                    | --                 | --                 | --                     | --                          | --                | --                  | --                 | --                         | --                  | --                  | --                  | --         | --         |
| MW-186WT          | 8-18                 | 09/30/16        | --                    | --                        | --                                    | --                    | --                 | --                 | --                     | --                          | --                | --                  | --                 | --                         | --                  | --                  | --                  | --         | --         |

Table 2  
Analytical Data Summary Table - SMI Organics  
Saginaw, MI  
RACER Trust



| Sample ID:        | Sample Depth (feet): | Date Collected: | Volatile Organics    |         |               |         |                     |                       |           |              |                  |                      |               |              |            |               |                        |                         |             |
|-------------------|----------------------|-----------------|----------------------|---------|---------------|---------|---------------------|-----------------------|-----------|--------------|------------------|----------------------|---------------|--------------|------------|---------------|------------------------|-------------------------|-------------|
|                   |                      |                 | 4-Methyl-2-pentanone | Acetone | Acrylonitrile | Benzene | Bromo chloromethane | Bromodichloro methane | Bromoform | Bromomethane | Carbon Disulfide | Carbon Tetrachloride | Chlorobenzene | Chloroethane | Chloroform | Chloromethane | cis-1,2-Dichloroethene | cis-1,3-Dichloropropene | Cyclohexane |
| MDEQ GSI Criteria |                      |                 | ID                   | 1,700   | 2.0 (M); 1.2  | 200 (X) | --                  | ID                    | ID        | 35           | ID               | 45 (X)               | 25            | 1,100 (X)    | 350        | ID            | 620                    | --                      | --          |
| MW-107S1          | 12.5 - 17.5          | 07/12/95        | 50 U                 | 50 U    | --            | 1.0 U   | --                  | 1.0 U                 | 1.0 U     | 1.0 U        | 50 U             | 1.0 U                | 1.0 U         | 1.0 U        | 1.0 U      | 1.0 U         | 1.0 U                  | 1.0 U                   | --          |
| MW-107S1          | 12.5 - 17.5          | 06/07/96        | 50 U                 | 100 U   | --            | 5.0 U   | --                  | 1.0 U                 | 1.0 U     | 1.0 U        | 50 U             | 1.0 U                | 1.0 U         | 1.0 U        | 1.0 U      | 1.0 U         | 1.0 U                  | 1.0 U                   | --          |
| MW-107S1          | 12.5 - 17.5          | 09/29/16        | --                   | --      | --            | --      | --                  | --                    | --        | --           | --               | --                   | --            | --           | --         | --            | --                     | --                      | --          |
| MW-107WT          | 4 - 9                | 07/12/95        | 50 U                 | 50 U    | --            | 1.0 U   | --                  | 1.0 U                 | 1.0 U     | 1.0 U        | 50 U             | 1.0 U                | 1.0 U         | 1.0 U        | 1.0 U      | 1.0 U         | 1.0 U                  | 1.0 U                   | --          |
| MW-107WT          | 4 - 9                | 06/07/96        | 50 U                 | 100 U   | --            | 5.0 U   | --                  | 1.0 U                 | 1.0 U     | 1.0 U        | 50 U             | 1.0 U                | 1.0 U         | 1.0 U        | 1.0 U      | 1.0 U         | 1.0 U                  | 1.0 U                   | --          |
| MW-107WT          | 4 - 9                | 03/10/97        | --                   | --      | --            | --      | --                  | --                    | --        | --           | --               | --                   | --            | --           | --         | --            | --                     | --                      | --          |
| MW-107WT          | 4 - 9                | 09/29/16        | --                   | --      | --            | --      | --                  | --                    | --        | --           | --               | --                   | --            | --           | --         | --            | --                     | --                      | --          |
| MW-108S2          | 22 - 27              | 07/13/95        | 50 U                 | 50 U    | --            | 1.0 U   | --                  | 1.0 U                 | 1.0 U     | 1.0 U        | 50 U             | 1.0 U                | 1.0 U         | 1.0 U        | 1.0 U      | 1.0 U         | 1.0 U                  | 1.0 U                   | --          |
| MW-108S2          | 22 - 27              | 06/08/96        | 50 U                 | 100 U   | --            | 5.0 U   | --                  | 1.0 U                 | 1.0 U     | 1.0 U        | 50 U             | 1.0 U                | 1.0 U         | 1.0 U        | 1.0 U      | 1.0 U         | 1.0 U                  | 1.0 U                   | --          |
| MW-108S2          | 22 - 27              | 09/29/16        | --                   | --      | --            | --      | --                  | --                    | --        | --           | --               | --                   | --            | --           | --         | --            | --                     | --                      | --          |
| MW-108WT          | 2.5 - 7.5            | 07/13/95        | 50 U                 | 50 U    | --            | 1.0 U   | --                  | 1.0 U                 | 1.0 U     | 1.0 U        | 50 U             | 1.0 U                | 1.0 U         | 1.0 U        | 1.0 U      | 1.0 U         | 1.0 U                  | 1.0 U                   | --          |
| MW-108WT          | 2.5 - 7.5            | 06/08/96        | 50 U                 | 100 U   | --            | 5.0 U   | --                  | 1.0 U                 | 1.0 U     | 1.0 U        | 50 U             | 1.0 U                | 1.0 U         | 1.0 U        | 1.0 U      | 1.0 U         | 1.0 U                  | 1.0 U                   | --          |
| MW-108WT          | 2.5 - 7.5            | 03/10/97        | --                   | --      | --            | --      | --                  | --                    | --        | --           | --               | --                   | --            | --           | --         | --            | --                     | --                      | --          |
| MW-108WT          | 2.5 - 7.5            | 09/29/16        | --                   | --      | --            | --      | --                  | --                    | --        | --           | --               | --                   | --            | --           | --         | --            | --                     | --                      | --          |
| MW-108WT          | 2.5 - 7.5            | 10/13/16        | 10 U                 | 10 U    | --            | 1.0 U   | 1.0 U               | --                    | 1.0 U     | 1.0 U        | 1.0 U            | 1.0 U                | 1.0 U         | 1.0 U        | 1.0 U      | 1.0 U         | 1.0 U                  | 1.0 U                   | 1.0 U       |
| MW-110WT          | UNKNOWN              | 06/12/96        | 50 U                 | 100 U   | --            | 5.0 U   | --                  | 1.0 U                 | 1.0 U     | 1.0 U        | 50 U             | 1.0 U                | 1.0 U         | 1.0 U        | 1.0 U      | 1.0 U         | 1.0 U                  | 1.0 U                   | --          |
| MW-110WT          | UNKNOWN              | 03/06/97        | --                   | --      | --            | --      | --                  | --                    | --        | --           | --               | --                   | --            | --           | --         | --            | --                     | --                      | --          |
| MW-110WT          | UNKNOWN              | 12/10/97        | 1,000 U              | 1,000 U | --            | 500 U   | --                  | 100 U                 | 100 U     | 100 U        | 500 U            | 100 U                | 200           | 100 U        | 100 U      | 100 U         | --                     | 100 U                   | --          |
| MW-110WT          | UNKNOWN              | 05/22/00        | --                   | --      | --            | --      | --                  | --                    | --        | --           | --               | --                   | --            | --           | --         | --            | --                     | --                      | --          |
| MW-110WTR         | 10 - 15              | 06/02/04        | --                   | --      | --            | --      | --                  | --                    | --        | --           | --               | --                   | --            | --           | --         | --            | --                     | --                      | --          |
| MW-110WTR         | 10 - 15              | 08/24/05        | --                   | --      | --            | --      | --                  | --                    | --        | --           | --               | --                   | --            | --           | --         | --            | --                     | --                      | --          |
| MW-110WTR         | 10 - 15              | 04/02/08        | --                   | --      | --            | --      | --                  | --                    | --        | --           | --               | --                   | --            | --           | --         | --            | --                     | --                      | --          |
| MW-110WTR         | 10 - 15              | 09/24/14        | --                   | --      | --            | --      | --                  | --                    | --        | --           | --               | --                   | --            | --           | --         | --            | --                     | --                      | --          |
| MW-110WTR         | 10 - 15              | 10/01/15        | --                   | --      | --            | --      | --                  | --                    | --        | --           | --               | --                   | --            | --           | --         | --            | --                     | --                      | --          |
| MW-110WTR         | 10 - 15              | 09/29/16        | --                   | --      | --            | --      | --                  | --                    | --        | --           | --               | --                   | --            | --           | --         | --            | --                     | --                      | --          |
| MW-110WTR         | 10 - 15              | 10/13/16        | 10 U                 | 10 U    | --            | 1.0 U   | 1.0 U               | --                    | 1.0 U     | 1.0 U        | 1.0 U            | 1.0 U                | 1.0 U         | 1.0 U        | 1.0 U      | 1.0 U         | 1.0 U                  | 1.0 U                   | 1.0 U       |
| MW-111WT          | 5.5 - 10.5           | 07/14/95        | 50 U                 | 50 U    | --            | 1.0 U   | --                  | 1.0 U                 | 1.0 U     | 1.0 U        | 50 U             | 1.0 U                | 1.0 U         | 1.0 U        | 1.0 U      | 1.0 U         | 1.0 U                  | 1.0 U                   | --          |
| MW-111WT          | 5.5 - 10.5           | 06/12/96        | 50 U                 | 100 U   | --            | 5.0 U   | --                  | 1.0 U                 | 1.0 U     | 1.0 U        | 50 U             | 1.0 U                | 1.0 U         | 1.0 U        | 1.0 U      | 1.0 U         | 1.0 U                  | 1.0 U                   | --          |
| MW-111WT          | 5.5 - 10.5           | 03/07/97        | --                   | --      | --            | --      | --                  | --                    | --        | --           | --               | --                   | --            | --           | --         | --            | --                     | --                      | --          |
| MW-111WT          | 5.5 - 10.5           | 06/30/99        | --                   | --      | --            | --      | --                  | --                    | --        | --           | --               | --                   | --            | --           | --         | --            | --                     | --                      | --          |
| MW-111WT          | 5.5 - 10.5           | 05/19/00        | --                   | --      | --            | --      | --                  | --                    | --        | --           | --               | --                   | --            | --           | --         | --            | --                     | --                      | --          |
| MW-111WT          | 5.5 - 10.5           | 04/05/01        | --                   | --      | --            | --      | --                  | --                    | --        | --           | --               | --                   | --            | --           | --         | --            | --                     | --                      | --          |
| MW-111WT          | 5.5 - 10.5           | 06/02/04        | --                   | --      | --            | --      | --                  | --                    | --        | --           | --               | --                   | --            | --           | --         | --            | --                     | --                      | --          |
| MW-111WT          | 5.5 - 10.5           | 08/26/05        | --                   | --      | --            | --      | --                  | --                    | --        | --           | --               | --                   | --            | --           | --         | --            | --                     | --                      | --          |
| MW-111WT          | 5.5 - 10.5           | 04/02/08        | --                   | --      | --            | --      | --                  | --                    | --        | --           | --               | --                   | --            | --           | --         | --            | --                     | --                      | --          |
| MW-111WT          | 5.5-10.5             | 09/18/12        | --                   | --      | --            | --      | --                  | --                    | --        | --           | --               | --                   | --            | --           | --         | --            | --                     | --                      | --          |
| MW-111WT          | 5.5-10.5             | 09/26/13        | --                   | --      | --            | --      | --                  | --                    | --        | --           | --               | --                   | --            | --           | --         | --            | --                     | --                      | --          |
| MW-111WT          | 5.5-10.5             | 09/23/14        | --                   | --      | --            | --      | --                  | --                    | --        | --           | --               | --                   | --            | --           | --         | --            | --                     | --                      | --          |



Table 2  
Analytical Data Summary Table - SMI Organics  
Saginaw, MI  
RACER Trust



| Sample ID:        | Sample Depth (feet): | Date Collected: | Volatile Organics    |         |               |         |                     |                       |           |              |                  |                      |               |              |            |               |                        |                         |             |
|-------------------|----------------------|-----------------|----------------------|---------|---------------|---------|---------------------|-----------------------|-----------|--------------|------------------|----------------------|---------------|--------------|------------|---------------|------------------------|-------------------------|-------------|
|                   |                      |                 | 4-Methyl-2-pentanone | Acetone | Acrylonitrile | Benzene | Bromo chloromethane | Bromodichloro methane | Bromoform | Bromomethane | Carbon Disulfide | Carbon Tetrachloride | Chlorobenzene | Chloroethane | Chloroform | Chloromethane | cis-1,2-Dichloroethene | cis-1,3-Dichloropropene | Cyclohexane |
| MDEQ GSI Criteria |                      |                 | ID                   | 1,700   | 2.0 (M); 1.2  | 200 (X) | --                  | ID                    | 35        | ID           | 45 (X)           | 25                   | 1,100 (X)     | 350          | ID         | 620           | --                     | --                      |             |
| MW-111WT          | 5.5-10.5             | 10/01/15        | --                   | --      | --            | --      | --                  | --                    | --        | --           | --               | --                   | --            | --           | --         | --            | --                     | --                      |             |
| MW-111WT          | 5.5 - 10.5           | 09/29/16        | --                   | --      | --            | --      | --                  | --                    | --        | --           | --               | --                   | --            | --           | --         | --            | --                     | --                      |             |
| MW-114S2          | 22.5 - 27.5          | 07/17/95        | 50 U                 | 50 UJ   | --            | 1.0 U   | --                  | 1.0 U                 | 1.0 UJ    | 50 U         | 1.0 U            | 1.0 U                | 1.0 UJ        | 1.0 U        | 1.0 U      | 1.0 U         | 1.0 U                  | --                      |             |
| MW-114S2          | 22.5 - 27.5          | 06/07/96        | 50 U                 | 100 U   | --            | 5.0 U   | --                  | 1.0 U                 | 1.0 U     | 50 U         | 1.0 U            | 1.0 U                | 1.0 U         | 1.0 U        | 1.0 U      | 1.0 U         | 1.0 U                  | --                      |             |
| MW-114S2          | 22.5 - 27.5          | 09/29/16        | --                   | --      | --            | --      | --                  | --                    | --        | --           | --               | --                   | --            | --           | --         | --            | --                     | --                      |             |
| MW-114WT          | 3.5 - 8.5            | 06/08/96        | 50 U                 | 100 U   | --            | 5.0 U   | --                  | 1.0 U                 | 1.0 U     | 50 U         | 1.0 U            | 1.0 U                | 1.0 U         | 1.0 U        | 1.0 U      | 1.0 U         | 1.0 U                  | --                      |             |
| MW-114WT          | 3.5 - 8.5            | 06/08/96        | 50 U                 | 100 U   | --            | 5.0 U   | --                  | 1.0 U                 | 1.0 U     | 50 U         | 1.0 U            | 1.0 U                | 1.0 U         | 1.0 U        | 1.0 U      | 1.0 U         | 1.0 U                  | --                      |             |
| MW-114WT          | 3.5 - 8.5            | 03/06/97        | --                   | --      | --            | --      | --                  | --                    | --        | --           | --               | --                   | --            | --           | --         | --            | --                     | --                      |             |
| MW-114WT          | 3.5 - 8.5            | 03/06/97        | --                   | --      | --            | --      | --                  | --                    | --        | --           | --               | --                   | --            | --           | --         | --            | --                     | --                      |             |
| MW-114WT          | 3.5 - 8.5            | 12/11/97        | 50 U                 | 100 UJ  | --            | 5.0 U   | --                  | 1.0 U                 | 1.0 U     | 50 U         | 1.0 U            | 1.0 U                | 1.0 U         | 1.0 U        | 1.0 U      | --            | 1.0 U                  | --                      |             |
| MW-114WT          | 3.5 - 8.5            | 12/11/97        | 50 U                 | 100 UJ  | --            | 5.0 U   | --                  | 1.0 U                 | 1.0 U     | 50 U         | 1.0 U            | 1.0 U                | 1.0 U         | 1.0 U        | 1.0 U      | --            | 1.0 U                  | --                      |             |
| MW-114WT          | 3.5 - 8.5            | 05/22/00        | --                   | --      | --            | --      | --                  | --                    | --        | --           | --               | --                   | --            | --           | --         | --            | --                     | --                      |             |
| MW-114WT          | 3.5 - 8.5            | 04/05/01        | --                   | --      | --            | --      | --                  | --                    | --        | --           | --               | --                   | --            | --           | --         | --            | --                     | --                      |             |
| MW-114WT          | 3.5 - 8.5            | 06/03/04        | --                   | --      | --            | --      | --                  | --                    | --        | --           | --               | --                   | --            | --           | --         | --            | --                     | --                      |             |
| MW-114WT          | 3.5 - 8.5            | 08/24/05        | --                   | --      | --            | --      | --                  | --                    | --        | --           | --               | --                   | --            | --           | --         | --            | --                     | --                      |             |
| MW-114WT          | 3.5 - 8.5            | 09/26/13        | --                   | --      | --            | --      | --                  | --                    | --        | --           | --               | --                   | --            | --           | --         | --            | --                     | --                      |             |
| MW-114WT          | 3.5 - 8.5            | 09/23/14        | --                   | --      | --            | --      | --                  | --                    | --        | --           | --               | --                   | --            | --           | --         | --            | --                     | --                      |             |
| MW-114WT          | 3.5 - 8.5            | 10/02/15        | --                   | --      | --            | --      | --                  | --                    | --        | --           | --               | --                   | --            | --           | --         | --            | --                     | --                      |             |
| MW-114WT          | 3.5 - 8.5            | 09/29/16        | --                   | --      | --            | --      | --                  | --                    | --        | --           | --               | --                   | --            | --           | --         | --            | --                     | --                      |             |
| MW-149WT          | 7 - 17               | 06/12/96        | 50 U                 | 100 U   | --            | 5.0 U   | --                  | 1.0 U                 | 1.0 U     | 50 U         | 1.0 U            | 1.0 U                | 1.0 U         | 1.0 U        | 1.0 U      | 1.0 U         | 1.0 U                  | --                      |             |
| MW-149WT          | 7 - 17               | 03/10/97        | --                   | --      | --            | --      | --                  | --                    | --        | --           | --               | --                   | --            | --           | --         | --            | --                     | --                      |             |
| MW-149WT          | 7 - 17               | 09/29/16        | --                   | --      | --            | --      | --                  | --                    | --        | --           | --               | --                   | --            | --           | --         | --            | --                     | --                      |             |
| MW-185WT          | 3 - 8                | 06/03/04        | --                   | --      | --            | --      | --                  | --                    | --        | --           | --               | --                   | --            | --           | --         | --            | --                     | --                      |             |
| MW-185WT          | 3 - 8                | 08/25/05        | --                   | --      | --            | --      | --                  | --                    | --        | --           | --               | --                   | --            | --           | --         | --            | --                     | --                      |             |
| MW-185WT          | 3 - 8                | 11/28/07        | --                   | --      | --            | --      | --                  | --                    | --        | --           | --               | --                   | --            | --           | --         | --            | --                     | --                      |             |
| MW-185WT          | 3 - 8                | 09/18/12        | --                   | --      | --            | --      | --                  | --                    | --        | --           | --               | --                   | --            | --           | --         | --            | --                     | --                      |             |
| MW-185WT          | 3 - 8                | 09/25/13        | --                   | --      | --            | --      | --                  | --                    | --        | --           | --               | --                   | --            | --           | --         | --            | --                     | --                      |             |
| MW-185WT          | 3 - 8                | 09/24/14        | --                   | --      | --            | --      | --                  | --                    | --        | --           | --               | --                   | --            | --           | --         | --            | --                     | --                      |             |
| MW-185WT          | 3 - 8                | 10/01/15        | --                   | --      | --            | --      | --                  | --                    | --        | --           | --               | --                   | --            | --           | --         | --            | --                     | --                      |             |
| MW-185WT          | 3 - 8                | 09/30/16        | --                   | --      | --            | --      | --                  | --                    | --        | --           | --               | --                   | --            | --           | --         | --            | --                     | --                      |             |
| MW-186WT          | 8-18                 | 09/30/10        | --                   | --      | --            | --      | --                  | --                    | --        | --           | --               | --                   | --            | --           | --         | --            | --                     | --                      |             |
| MW-186WT          | 8-18                 | 09/23/11        | --                   | --      | --            | --      | --                  | --                    | --        | --           | --               | --                   | --            | --           | --         | --            | --                     | --                      |             |
| MW-186WT          | 8-18                 | 09/18/12        | --                   | --      | --            | --      | --                  | --                    | --        | --           | --               | --                   | --            | --           | --         | --            | --                     | --                      |             |
| MW-186WT          | 8-18                 | 09/25/13        | --                   | --      | --            | --      | --                  | --                    | --        | --           | --               | --                   | --            | --           | --         | --            | --                     | --                      |             |
| MW-186WT          | 8-18                 | 09/24/14        | --                   | --      | --            | --      | --                  | --                    | --        | --           | --               | --                   | --            | --           | --         | --            | --                     | --                      |             |
| MW-186WT          | 8-18                 | 10/02/15        | --                   | --      | --            | --      | --                  | --                    | --        | --           | --               | --                   | --            | --           | --         | --            | --                     | --                      |             |
| MW-186WT          | 8-18                 | 09/30/16        | --                   | --      | --            | --      | --                  | --                    | --        | --           | --               | --                   | --            | --           | --         | --            | --                     | --                      |             |

Table 2  
Analytical Data Summary Table - SMI Organics  
Saginaw, MI  
RACER Trust



| Sample ID: | Sample Depth (feet): | Volatile Organics |                          |                             |              |                      |                |                       |                            |                       |         |                   |         |                              |                               |                     |                            |                   |                                |
|------------|----------------------|-------------------|--------------------------|-----------------------------|--------------|----------------------|----------------|-----------------------|----------------------------|-----------------------|---------|-------------------|---------|------------------------------|-------------------------------|---------------------|----------------------------|-------------------|--------------------------------|
|            |                      | Date Collected:   | Dibromo<br>chloromethane | Dichlorodifluoro<br>methane | Ethylbenzene | Isopropyl<br>benzene | Methyl acetate | Methyl<br>cyclohexane | Methyl tert-butyl<br>ether | Methylene<br>Chloride | Styrene | Tetrachloroethene | Toluene | trans-1,2-<br>Dichloroethene | trans-1,3-<br>Dichloropropene | Trichloro<br>ethene | Trichlorofluoro<br>methane | Vinyl<br>Chloride | Total 1,3-<br>Dichloropropenes |
|            |                      | MDEQ GSI Criteria | ID                       | ID                          | 18           | 28                   | --             | --                    | 7,100 (X)                  | 1,500 (X)             | 80 (X)  | --                | 270     | 1,500 (X)                    | --                            | 200 (X)             | --                         | 13 (X)            | 9.0 (X)                        |
| MW-107S1   | 12.5 - 17.5          | 07/12/95          | 1.0 U                    | --                          | 1.0 U        | --                   | --             | --                    | --                         | 1.0 U                 | 1.0 U   | 1.0 U             | 1.0 U   | 1.0 U                        | 1.0 U                         | 1.0 U               | --                         | 1.0 U             | 1.0 U                          |
| MW-107S1   | 12.5 - 17.5          | 06/07/96          | 1.0 U                    | --                          | 1.0 U        | --                   | --             | --                    | --                         | 5.0 U                 | 1.0 U   | 1.0 U             | 1.0 U   | 1.0 U                        | 1.0 U                         | 1.0 U               | --                         | 1.0 U             | 1.0 U                          |
| MW-107S1   | 12.5 - 17.5          | 09/29/16          | --                       | --                          | --           | --                   | --             | --                    | --                         | --                    | --      | --                | --      | --                           | --                            | --                  | --                         | --                | --                             |
| MW-107WT   | 4 - 9                | 07/12/95          | 1.0 U                    | --                          | 1.0 U        | --                   | --             | --                    | --                         | 1.0 U                 | 1.0 U   | 1.0 U             | 1.0 U   | 1.0 U                        | 1.0 U                         | 1.0 U               | --                         | 1.0 U             | 1.0 U                          |
| MW-107WT   | 4 - 9                | 06/07/96          | 1.0 U                    | --                          | 1.0 U        | --                   | --             | --                    | --                         | 5.0 U                 | 1.0 U   | 1.0 U             | 1.0 U   | 1.0 U                        | 1.0 U                         | 1.0 U               | --                         | 1.0 U             | 1.0 U                          |
| MW-107WT   | 4 - 9                | 03/10/97          | --                       | --                          | --           | --                   | --             | --                    | --                         | --                    | --      | --                | --      | --                           | --                            | --                  | --                         | --                | --                             |
| MW-107WT   | 4 - 9                | 09/29/16          | --                       | --                          | --           | --                   | --             | --                    | --                         | --                    | --      | --                | --      | --                           | --                            | --                  | --                         | --                | --                             |
| MW-108S2   | 22 - 27              | 07/13/95          | 1.0 U                    | --                          | 1.0 U        | --                   | --             | --                    | --                         | 1.0 U                 | 1.0 U   | 1.0 U             | 1.0 U   | 1.0 U                        | 1.0 U                         | 1.0 U               | --                         | 1.0 U             | 1.0 U                          |
| MW-108S2   | 22 - 27              | 06/08/96          | 1.0 U                    | --                          | 1.0 U        | --                   | --             | --                    | --                         | 5.0 U                 | 1.0 U   | 1.0 U             | 1.0 U   | 1.0 U                        | 1.0 U                         | 1.0 U               | --                         | 1.0 U             | 1.0 U                          |
| MW-108S2   | 22 - 27              | 09/29/16          | --                       | --                          | --           | --                   | --             | --                    | --                         | --                    | --      | --                | --      | --                           | --                            | --                  | --                         | --                | --                             |
| MW-108WT   | 2.5 - 7.5            | 07/13/95          | 1.0 U                    | --                          | 1.0 U        | --                   | --             | --                    | --                         | 1.0 U                 | 1.0 U   | 1.0 U             | 1.0 U   | 1.0 U                        | 1.0 U                         | 1.0 U               | --                         | 1.0 U             | 1.0 U                          |
| MW-108WT   | 2.5 - 7.5            | 06/08/96          | 1.0 U                    | --                          | 1.0 U        | --                   | --             | --                    | --                         | 5.0 U                 | 1.0 U   | 1.0 U             | 1.0 U   | 1.0 U                        | 1.0 U                         | 1.0 U               | --                         | 1.0 U             | 1.0 U                          |
| MW-108WT   | 2.5 - 7.5            | 03/10/97          | --                       | --                          | --           | --                   | --             | --                    | --                         | --                    | --      | --                | --      | --                           | --                            | --                  | --                         | --                | --                             |
| MW-108WT   | 2.5 - 7.5            | 09/29/16          | --                       | --                          | --           | --                   | --             | --                    | --                         | --                    | --      | --                | --      | --                           | --                            | --                  | --                         | --                | --                             |
| MW-108WT   | 2.5 - 7.5            | 10/13/16          | 1.0 U                    | 1.0 U                       | 1.0 U        | 1.0 U                | 10 U           | 1.0 U                 | 1.0 U                      | 1.0 U                 | 1.0 U   | 1.0 U             | 1.0 U   | 1.0 U                        | 1.0 U                         | 1.0 U               | 1.0 U                      | 1.0 U             | --                             |
| MW-110WT   | UNKNOWN              | 06/12/96          | 1.0 U                    | --                          | 1.0 U        | --                   | --             | --                    | --                         | 5.0 U                 | 1.0 U   | 1.0 U             | 1.0 U   | 1.0 U                        | 1.0 U                         | 1.0 U               | --                         | 1.0 U             | 1.0 U                          |
| MW-110WT   | UNKNOWN              | 03/06/97          | --                       | --                          | --           | --                   | --             | --                    | --                         | --                    | --      | --                | --      | --                           | --                            | --                  | --                         | --                | --                             |
| MW-110WT   | UNKNOWN              | 12/10/97          | 100 U                    | --                          | 12           | --                   | --             | --                    | --                         | 500 U                 | 100 U   | 100 U             | 7.9     | --                           | 100 U                         | 100 U               | --                         | 3,400             | 100 U                          |
| MW-110WT   | UNKNOWN              | 05/22/00          | --                       | --                          | --           | --                   | --             | --                    | --                         | --                    | --      | --                | --      | --                           | --                            | --                  | --                         | --                | --                             |
| MW-110WTR  | 10 - 15              | 06/02/04          | --                       | --                          | --           | --                   | --             | --                    | --                         | --                    | --      | --                | --      | --                           | --                            | --                  | --                         | --                | --                             |
| MW-110WTR  | 10 - 15              | 08/24/05          | --                       | --                          | --           | --                   | --             | --                    | --                         | --                    | --      | --                | --      | --                           | --                            | --                  | --                         | --                | --                             |
| MW-110WTR  | 10 - 15              | 04/02/08          | --                       | --                          | --           | --                   | --             | --                    | --                         | --                    | --      | --                | --      | --                           | --                            | --                  | --                         | --                | --                             |
| MW-110WTR  | 10 - 15              | 09/24/14          | --                       | --                          | --           | --                   | --             | --                    | --                         | --                    | --      | --                | --      | --                           | --                            | --                  | --                         | --                | --                             |
| MW-110WTR  | 10 - 15              | 10/01/15          | --                       | --                          | --           | --                   | --             | --                    | --                         | --                    | --      | --                | --      | --                           | --                            | --                  | --                         | --                | --                             |
| MW-110WTR  | 10 - 15              | 09/29/16          | --                       | --                          | --           | --                   | --             | --                    | --                         | --                    | --      | --                | --      | --                           | --                            | --                  | --                         | --                | --                             |
| MW-110WTR  | 10 - 15              | 10/13/16          | 1.0 U                    | 1.0 U                       | 1.0 U        | 1.0 U                | 10 U           | 1.0 U                 | 1.0 U                      | 1.0 U                 | 1.0 U   | 1.0 U             | 1.0 U   | 1.0 U                        | 1.0 U                         | 1.0 U               | 1.0 U                      | 1.0 U             | --                             |
| MW-111WT   | 5.5 - 10.5           | 07/14/95          | 1.0 U                    | --                          | 1.0 U        | --                   | --             | --                    | --                         | 1.0 U                 | 1.0 U   | 1.0 U             | 12      | 1.0 U                        | 1.0 U                         | 1.0 U               | --                         | 1.0 U             | 1.0 U                          |
| MW-111WT   | 5.5 - 10.5           | 06/12/96          | 1.0 U                    | --                          | 1.0 U        | --                   | --             | --                    | --                         | 5.0 U                 | 1.0 U   | 1.0 U             | 1.0 U   | 1.0 U                        | 1.0 U                         | 1.0 U               | --                         | 1.0 U             | 1.0 U                          |
| MW-111WT   | 5.5 - 10.5           | 03/07/97          | --                       | --                          | --           | --                   | --             | --                    | --                         | --                    | --      | --                | --      | --                           | --                            | --                  | --                         | --                | --                             |
| MW-111WT   | 5.5 - 10.5           | 06/30/99          | --                       | --                          | --           | --                   | --             | --                    | --                         | --                    | --      | --                | --      | --                           | --                            | --                  | --                         | --                | --                             |
| MW-111WT   | 5.5 - 10.5           | 05/19/00          | --                       | --                          | --           | --                   | --             | --                    | --                         | --                    | --      | --                | --      | --                           | --                            | --                  | --                         | --                | --                             |
| MW-111WT   | 5.5 - 10.5           | 04/05/01          | --                       | --                          | --           | --                   | --             | --                    | --                         | --                    | --      | --                | --      | --                           | --                            | --                  | --                         | --                | --                             |
| MW-111WT   | 5.5 - 10.5           | 06/02/04          | --                       | --                          | --           | --                   | --             | --                    | --                         | --                    | --      | --                | --      | --                           | --                            | --                  | --                         | --                | --                             |
| MW-111WT   | 5.5 - 10.5           | 08/26/05          | --                       | --                          | --           | --                   | --             | --                    | --                         | --                    | --      | --                | --      | --                           | --                            | --                  | --                         | --                | --                             |
| MW-111WT   | 5.5 - 10.5           | 04/02/08          | --                       | --                          | --           | --                   | --             | --                    | --                         | --                    | --      | --                | --      | --                           | --                            | --                  | --                         | --                | --                             |
| MW-111WT   | 5.5-10.5             | 09/18/12          | --                       | --                          | --           | --                   | --             | --                    | --                         | --                    | --      | --                | --      | --                           | --                            | --                  | --                         | --                | --                             |
| MW-111WT   | 5.5-10.5             | 09/26/13          | --                       | --                          | --           | --                   | --             | --                    | --                         | --                    | --      | --                | --      | --                           | --                            | --                  | --                         | --                | --                             |
| MW-111WT   | 5.5-10.5             | 09/23/14          | --                       | --                          | --           | --                   | --             | --                    | --                         | --                    | --      | --                | --      | --                           | --                            | --                  | --                         | --                | --                             |



Table 2  
Analytical Data Summary Table - SMI Organics  
Saginaw, MI  
RACER Trust



| Sample ID:        | Sample Depth (feet): | Volatile Organics |                          |                             |              |                      |                |                       |                            |                       |         |                   |         |                              |                               |                     |                            |                   |                                |
|-------------------|----------------------|-------------------|--------------------------|-----------------------------|--------------|----------------------|----------------|-----------------------|----------------------------|-----------------------|---------|-------------------|---------|------------------------------|-------------------------------|---------------------|----------------------------|-------------------|--------------------------------|
|                   |                      | Date Collected:   | Dibromo<br>chloromethane | Dichlorodifluoro<br>methane | Ethylbenzene | Isopropyl<br>benzene | Methyl acetate | Methyl<br>cyclohexane | Methyl tert-butyl<br>ether | Methylene<br>Chloride | Styrene | Tetrachloroethene | Toluene | trans-1,2-<br>Dichloroethene | trans-1,3-<br>Dichloropropene | Trichloro<br>ethene | Trichlorofluoro<br>methane | Vinyl<br>Chloride | Total 1,3-<br>Dichloropropenes |
| MDEQ GSI Criteria |                      |                   | ID                       | ID                          | 18           | 28                   | --             | --                    | 7,100 (X)                  | 1,500 (X)             | 80 (X)  | --                | 270     | 1,500 (X)                    | --                            | 200 (X)             | --                         | 13 (X)            | 9.0 (X)                        |
| MW-111WT          | 5.5-10.5             | 10/01/15          | --                       | --                          | --           | --                   | --             | --                    | --                         | --                    | --      | --                | --      | --                           | --                            | --                  | --                         | --                | --                             |
| MW-111WT          | 5.5 - 10.5           | 09/29/16          | --                       | --                          | --           | --                   | --             | --                    | --                         | --                    | --      | --                | --      | --                           | --                            | --                  | --                         | --                | --                             |
| MW-114S2          | 22.5 - 27.5          | 07/17/95          | 1.0 U                    | --                          | 1.0 U        | --                   | --             | --                    | --                         | 1.0 U                 | 1.0 U   | 1.0 U             | 1.0 U   | 1.0 U                        | 1.0 U                         | 1.0 U               | --                         | 1.0 U             | 1.0 U                          |
| MW-114S2          | 22.5 - 27.5          | 06/07/96          | 1.0 U                    | --                          | 1.0 U        | --                   | --             | --                    | --                         | 5.0 U                 | 1.0 U   | 1.0 U             | 1.0 U   | 1.0 U                        | 1.0 U                         | 1.0 U               | --                         | 1.0 U             | 1.0 U                          |
| MW-114S2          | 22.5 - 27.5          | 09/29/16          | --                       | --                          | --           | --                   | --             | --                    | --                         | --                    | --      | --                | --      | --                           | --                            | --                  | --                         | --                | --                             |
| MW-114WT          | 3.5 - 8.5            | 06/08/96          | 1.0 U                    | --                          | 1.0 U        | --                   | --             | --                    | --                         | 5.0 U                 | 1.0 U   | 1.0 U             | 1.0 U   | 1.0 U                        | 1.0 U                         | 1.0 U               | --                         | 1.0 U             | 1.0 U                          |
| MW-114WT          | 3.5 - 8.5            | 06/08/96          | 1.0 U                    | --                          | 1.0 U        | --                   | --             | --                    | --                         | 5.0 U                 | 1.0 U   | 1.0 U             | 1.0 U   | 1.0 U                        | 1.0 U                         | 1.0 U               | --                         | 1.0 U             | 1.0 U                          |
| MW-114WT          | 3.5 - 8.5            | 03/06/97          | --                       | --                          | --           | --                   | --             | --                    | --                         | --                    | --      | --                | --      | --                           | --                            | --                  | --                         | --                | --                             |
| MW-114WT          | 3.5 - 8.5            | 03/06/97          | --                       | --                          | --           | --                   | --             | --                    | --                         | --                    | --      | --                | --      | --                           | --                            | --                  | --                         | --                | --                             |
| MW-114WT          | 3.5 - 8.5            | 12/11/97          | 1.0 U                    | --                          | 1.0 U        | --                   | --             | --                    | --                         | 5.0 U                 | 1.0 U   | 1.0 U             | 1.0 U   | --                           | 1.0 U                         | 1.0 U               | --                         | 1.0 U             | 1.0 U                          |
| MW-114WT          | 3.5 - 8.5            | 12/11/97          | 1.0 U                    | --                          | 1.0 U        | --                   | --             | --                    | --                         | 5.0 U                 | 1.0 U   | 1.0 U             | 1.0 U   | --                           | 1.0 U                         | 1.0 U               | --                         | 1.0 U             | 1.0 U                          |
| MW-114WT          | 3.5 - 8.5            | 05/22/00          | --                       | --                          | --           | --                   | --             | --                    | --                         | --                    | --      | --                | --      | --                           | --                            | --                  | --                         | --                | --                             |
| MW-114WT          | 3.5 - 8.5            | 04/05/01          | --                       | --                          | --           | --                   | --             | --                    | --                         | --                    | --      | --                | --      | --                           | --                            | --                  | --                         | --                | --                             |
| MW-114WT          | 3.5 - 8.5            | 06/03/04          | --                       | --                          | --           | --                   | --             | --                    | --                         | --                    | --      | --                | --      | --                           | --                            | --                  | --                         | --                | --                             |
| MW-114WT          | 3.5 - 8.5            | 08/24/05          | --                       | --                          | --           | --                   | --             | --                    | --                         | --                    | --      | --                | --      | --                           | --                            | --                  | --                         | --                | --                             |
| MW-114WT          | 3.5 - 8.5            | 09/26/13          | --                       | --                          | --           | --                   | --             | --                    | --                         | --                    | --      | --                | --      | --                           | --                            | --                  | --                         | --                | --                             |
| MW-114WT          | 3.5 - 8.5            | 09/23/14          | --                       | --                          | --           | --                   | --             | --                    | --                         | --                    | --      | --                | --      | --                           | --                            | --                  | --                         | --                | --                             |
| MW-114WT          | 3.5 - 8.5            | 10/02/15          | --                       | --                          | --           | --                   | --             | --                    | --                         | --                    | --      | --                | --      | --                           | --                            | --                  | --                         | --                | --                             |
| MW-114WT          | 3.5 - 8.5            | 09/29/16          | --                       | --                          | --           | --                   | --             | --                    | --                         | --                    | --      | --                | --      | --                           | --                            | --                  | --                         | --                | --                             |
| MW-149WT          | 7 - 17               | 06/12/96          | 1.0 U                    | --                          | 1.0 U        | --                   | --             | --                    | --                         | 5.0 U                 | 1.0 U   | 1.0 U             | 1.0 U   | 1.0 U                        | 1.0 U                         | 1.0 U               | --                         | 1.0 U             | 1.0 U                          |
| MW-149WT          | 7 - 17               | 03/10/97          | --                       | --                          | --           | --                   | --             | --                    | --                         | --                    | --      | --                | --      | --                           | --                            | --                  | --                         | --                | --                             |
| MW-149WT          | 7 - 17               | 09/29/16          | --                       | --                          | --           | --                   | --             | --                    | --                         | --                    | --      | --                | --      | --                           | --                            | --                  | --                         | --                | --                             |
| MW-185WT          | 3 - 8                | 06/03/04          | --                       | --                          | --           | --                   | --             | --                    | --                         | --                    | --      | --                | --      | --                           | --                            | --                  | --                         | --                | --                             |
| MW-185WT          | 3 - 8                | 08/25/05          | --                       | --                          | --           | --                   | --             | --                    | --                         | --                    | --      | --                | --      | --                           | --                            | --                  | --                         | --                | --                             |
| MW-185WT          | 3 - 8                | 11/28/07          | --                       | --                          | --           | --                   | --             | --                    | --                         | --                    | --      | --                | --      | --                           | --                            | --                  | --                         | --                | --                             |
| MW-185WT          | 3 - 8                | 09/18/12          | --                       | --                          | --           | --                   | --             | --                    | --                         | --                    | --      | --                | --      | --                           | --                            | --                  | --                         | --                | --                             |
| MW-185WT          | 3 - 8                | 09/25/13          | --                       | --                          | --           | --                   | --             | --                    | --                         | --                    | --      | --                | --      | --                           | --                            | --                  | --                         | --                | --                             |
| MW-185WT          | 3 - 8                | 09/24/14          | --                       | --                          | --           | --                   | --             | --                    | --                         | --                    | --      | --                | --      | --                           | --                            | --                  | --                         | --                | --                             |
| MW-185WT          | 3 - 8                | 10/01/15          | --                       | --                          | --           | --                   | --             | --                    | --                         | --                    | --      | --                | --      | --                           | --                            | --                  | --                         | --                | --                             |
| MW-185WT          | 3 - 8                | 09/30/16          | --                       | --                          | --           | --                   | --             | --                    | --                         | --                    | --      | --                | --      | --                           | --                            | --                  | --                         | --                | --                             |
| MW-186WT          | 8-18                 | 09/30/10          | --                       | --                          | --           | --                   | --             | --                    | --                         | --                    | --      | --                | --      | --                           | --                            | --                  | --                         | --                | --                             |
| MW-186WT          | 8-18                 | 09/23/11          | --                       | --                          | --           | --                   | --             | --                    | --                         | --                    | --      | --                | --      | --                           | --                            | --                  | --                         | --                | --                             |
| MW-186WT          | 8-18                 | 09/18/12          | --                       | --                          | --           | --                   | --             | --                    | --                         | --                    | --      | --                | --      | --                           | --                            | --                  | --                         | --                | --                             |
| MW-186WT          | 8-18                 | 09/25/13          | --                       | --                          | --           | --                   | --             | --                    | --                         | --                    | --      | --                | --      | --                           | --                            | --                  | --                         | --                | --                             |
| MW-186WT          | 8-18                 | 09/24/14          | --                       | --                          | --           | --                   | --             | --                    | --                         | --                    | --      | --                | --      | --                           | --                            | --                  | --                         | --                | --                             |
| MW-186WT          | 8-18                 | 10/02/15          | --                       | --                          | --           | --                   | --             | --                    | --                         | --                    | --      | --                | --      | --                           | --                            | --                  | --                         | --                | --                             |
| MW-186WT          | 8-18                 | 09/30/16          | --                       | --                          | --           | --                   | --             | --                    | --                         | --                    | --      | --                | --      | --                           | --                            | --                  | --                         | --                | --                             |

Table 2  
Analytical Data Summary Table - SMI Organics  
Saginaw, MI  
RACER Trust



| Sample ID:        | Sample Depth (feet): | Date Collected: | Volatile Organics | Semivolatile Organics   |                      |                      |                     |                                                             |                        |                        |                    |                    |                   |                    |                    |                    |                      |                |                      |                |
|-------------------|----------------------|-----------------|-------------------|-------------------------|----------------------|----------------------|---------------------|-------------------------------------------------------------|------------------------|------------------------|--------------------|--------------------|-------------------|--------------------|--------------------|--------------------|----------------------|----------------|----------------------|----------------|
|                   |                      |                 | Total Xylenes     | 1,2,4-Trichloro benzene | 1,2-Dichloro benzene | 1,3-Dichloro benzene | 1,4-Dichlorobenzene | 2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether) | 2,4,5-Trichloro phenol | 2,4,6-Trichloro phenol | 2,4-Dichlorophenol | 2,4-Dimethylphenol | 2,4-Dinitrophenol | 2,4-Dinitrotoluene | 2,6-Dichlorophenol | 2,6-Dinitrotoluene | 2-Chloro naphthalene | 2-Chlorophenol | 2-Methyl naphthalene | 2-Methylphenol |
| MDEQ GSI Criteria |                      |                 | 41                | 99 (X)                  | 13                   | 28                   | 17                  | --                                                          | --                     | --                     | --                 | --                 | --                | --                 | --                 | --                 | 18                   | 19             | --                   | --             |
| MW-107S1          | 12.5 - 17.5          | 07/12/95        | 3.0 U             | 5.0 U                   | --                   | --                   | --                  | 5.0 U                                                       | 50 U                   | 5.0 U                  | 5.0 U              | 5.0 U              | 20 U              | 5.0 U              | --                 | 5.0 U              | 5.0 U                | 5.0 U          | 5.0 U                | 20 U           |
| MW-107S1          | 12.5 - 17.5          | 06/07/96        | 3.0 U             | 5.0 U                   | --                   | --                   | --                  | 5.0 U                                                       | 50 U                   | 5.0 U                  | 5.0 U              | 5.0 U              | 20 U              | 5.0 U              | --                 | 5.0 U              | 5.0 U                | 5.0 U          | 5.0 U                | 20 U           |
| MW-107S1          | 12.5 - 17.5          | 09/29/16        | --                | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                 | --                 | --                | --                 | --                 | --                 | --                   | --             | --                   | --             |
| MW-107WT          | 4 - 9                | 07/12/95        | 3.0 U             | 5.0 U                   | --                   | --                   | --                  | 5.0 U                                                       | 50 U                   | 5.0 U                  | 5.0 U              | 5.0 U              | 20 U              | 5.0 U              | --                 | 5.0 U              | 5.0 U                | 5.0 U          | 5.0 U                | 20 U           |
| MW-107WT          | 4 - 9                | 06/07/96        | 3.0 U             | 5.0 U                   | --                   | --                   | --                  | 5.0 U                                                       | 50 U                   | 5.0 U                  | 5.0 U              | 5.0 U              | 20 U              | 5.0 U              | --                 | 5.0 U              | 5.0 U                | 5.0 U          | 5.0 U                | 20 U           |
| MW-107WT          | 4 - 9                | 03/10/97        | --                | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                 | --                 | --                | --                 | --                 | --                 | --                   | --             | --                   | --             |
| MW-107WT          | 4 - 9                | 09/29/16        | --                | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                 | --                 | --                | --                 | --                 | --                 | --                   | --             | --                   | --             |
| MW-108S2          | 22 - 27              | 07/13/95        | 3.0 U             | 5.0 U                   | --                   | --                   | --                  | 5.0 U                                                       | 50 U                   | 5.0 U                  | 5.0 U              | 5.0 U              | 20 U              | 5.0 U              | --                 | 5.0 U              | 5.0 U                | 5.0 U          | 5.0 U                | 20 U           |
| MW-108S2          | 22 - 27              | 06/08/96        | 3.0 U             | 5.0 U                   | --                   | --                   | --                  | 5.0 U                                                       | 50 U                   | 5.0 U                  | 5.0 U              | 5.0 U              | 20 U              | 5.0 U              | --                 | 5.0 U              | 5.0 U                | 5.0 U          | 5.0 U                | 20 U           |
| MW-108S2          | 22 - 27              | 09/29/16        | --                | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                 | --                 | --                | --                 | --                 | --                 | --                   | --             | --                   | --             |
| MW-108WT          | 2.5 - 7.5            | 07/13/95        | 3.0 U             | 5.0 U                   | --                   | --                   | --                  | 5.0 U                                                       | 50 U                   | 5.0 U                  | 5.0 U              | 5.0 U              | 20 U              | 5.0 U              | --                 | 5.0 U              | 5.0 U                | 5.0 U          | 5.0 U                | 20 U           |
| MW-108WT          | 2.5 - 7.5            | 06/08/96        | 3.0 U             | 5.0 U                   | --                   | --                   | --                  | 5.0 U                                                       | 50 U                   | 5.0 U                  | 5.0 U              | 5.0 U              | 20 U              | 5.0 U              | --                 | 5.0 U              | 5.0 U                | 5.0 U          | 5.0 U                | 20 U           |
| MW-108WT          | 2.5 - 7.5            | 03/10/97        | --                | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                 | --                 | --                | --                 | --                 | --                 | --                   | --             | --                   | --             |
| MW-108WT          | 2.5 - 7.5            | 09/29/16        | --                | --                      | --                   | --                   | --                  | 0.95 U                                                      | 4.8 U                  | 3.8 U                  | 1.9 U              | 1.9 U              | 4.8 U             | 4.8 U              | --                 | 4.8 U              | 0.95 U               | 0.95 U         | 0.19 U               | 0.95 U         |
| MW-108WT          | 2.5 - 7.5            | 10/13/16        | 2.0 U             | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                 | --                 | --                | --                 | --                 | --                 | --                   | --             | --                   | --             |
| MW-110WT          | UNKNOWN              | 06/12/96        | 3.0 U             | 5.0 U                   | --                   | --                   | --                  | 5.0 U                                                       | 50 U                   | 5.0 U                  | 5.0 U              | 5.0 U              | 20 U              | 5.0 U              | --                 | 5.0 U              | 5.0 U                | 5.0 U          | 5.0 U                | 20 U           |
| MW-110WT          | UNKNOWN              | 03/06/97        | --                | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                 | --                 | --                | --                 | --                 | --                 | --                   | --             | --                   | --             |
| MW-110WT          | UNKNOWN              | 12/10/97        | 4.2               | 5.0 U                   | --                   | --                   | --                  | 12                                                          | 50 U                   | 5.0 U                  | 5.0 U              | 5.0 U              | 20 U              | 5.0 U              | --                 | 5.0 U              | 5.0 U                | 5.0 U          | 5.0 U                | 20 U           |
| MW-110WT          | UNKNOWN              | 05/22/00        | --                | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                 | --                 | --                | --                 | --                 | --                 | --                   | --             | --                   | --             |
| MW-110WTR         | 10 - 15              | 06/02/04        | --                | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                 | --                 | --                | --                 | --                 | --                 | --                   | --             | --                   | --             |
| MW-110WTR         | 10 - 15              | 08/24/05        | --                | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                 | --                 | --                | --                 | --                 | --                 | --                   | --             | --                   | --             |
| MW-110WTR         | 10 - 15              | 04/02/08        | --                | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                 | --                 | --                | --                 | --                 | --                 | --                   | --             | --                   | --             |
| MW-110WTR         | 10 - 15              | 09/24/14        | --                | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                 | --                 | --                | --                 | --                 | --                 | --                   | --             | --                   | --             |
| MW-110WTR         | 10 - 15              | 10/01/15        | --                | --                      | --                   | --                   | --                  | 0.95 U                                                      | 4.8 U                  | 3.8 U                  | --                 | 1.9 U              | 4.8 U             | 4.8 U              | 4.8 U              | --                 | 0.95 U               | 0.95 U         | 0.19 U               | 0.95 U         |
| MW-110WTR         | 10 - 15              | 09/29/16        | --                | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                 | --                 | --                | --                 | --                 | --                 | --                   | --             | --                   | --             |
| MW-110WTR         | 10 - 15              | 10/13/16        | 2.0 U             | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                 | --                 | --                | --                 | --                 | --                 | --                   | --             | --                   | --             |
| MW-111WT          | 5.5 - 10.5           | 07/14/95        | 3.0 U             | 5.0 U                   | --                   | --                   | --                  | 5.0 U                                                       | 50 U                   | 5.0 U                  | 5.0 U              | 5.0 U              | 20 U              | 5.0 U              | --                 | 5.0 U              | 5.0 U                | 5.0 U          | 5.0 U                | 20 U           |
| MW-111WT          | 5.5 - 10.5           | 06/12/96        | 3.0 U             | 5.0 U                   | --                   | --                   | --                  | 5.0 U                                                       | 50 U                   | 5.0 U                  | 5.0 U              | 5.0 U              | 20 U              | 5.0 U              | --                 | 5.0 U              | 5.0 U                | 5.0 U          | 5.0 U                | 20 U           |
| MW-111WT          | 5.5 - 10.5           | 03/07/97        | --                | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                 | --                 | --                | --                 | --                 | --                 | --                   | --             | --                   | --             |
| MW-111WT          | 5.5 - 10.5           | 06/30/99        | --                | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                 | --                 | --                | --                 | --                 | --                 | --                   | --             | --                   | --             |
| MW-111WT          | 5.5 - 10.5           | 05/19/00        | --                | 5.0 U                   | 1.0 U                | 1.0 U                | 1.0 U               | 5.0 U                                                       | 5.0 U                  | 5.0 U                  | 10 U               | 5.0 U              | 20 U              | 5.0 U              | --                 | 5.0 U              | 5.0 U                | 5.0 U          | 5.0 U                | 20 U           |
| MW-111WT          | 5.5 - 10.5           | 04/05/01        | --                | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                 | --                 | --                | --                 | --                 | --                 | --                   | --             | --                   | --             |
| MW-111WT          | 5.5 - 10.5           | 06/02/04        | --                | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                 | --                 | --                | --                 | --                 | --                 | --                   | --             | --                   | --             |
| MW-111WT          | 5.5 - 10.5           | 08/26/05        | --                | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                 | --                 | --                | --                 | --                 | --                 | --                   | --             | --                   | --             |
| MW-111WT          | 5.5 - 10.5           | 04/02/08        | --                | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                 | --                 | --                | --                 | --                 | --                 | --                   | --             | --                   | --             |
| MW-111WT          | 5.5-10.5             | 09/18/12        | --                | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                 | --                 | --                | --                 | --                 | --                 | --                   | --             | --                   | --             |
| MW-111WT          | 5.5-10.5             | 09/26/13        | --                | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                 | --                 | --                | --                 | --                 | --                 | --                   | --             | --                   | --             |
| MW-111WT          | 5.5-10.5             | 09/23/14        | --                | --                      | --                   | --                   | --                  | --                                                          | --                     | --                     | --                 | --                 | --                | --                 | --                 | --                 | --                   | --             | --                   | --             |

Table 2  
Analytical Data Summary Table - SMI Organics  
Saginaw, MI  
RACER Trust



| Sample ID:        | Sample Depth (feet): | Date Collected: | Volatile Organics |                         | Semivolatile Organics |                      |                     |                                                             |                        |                        |                    |                    |                   |                    |                    |                    |                      |                |                      |                |                |
|-------------------|----------------------|-----------------|-------------------|-------------------------|-----------------------|----------------------|---------------------|-------------------------------------------------------------|------------------------|------------------------|--------------------|--------------------|-------------------|--------------------|--------------------|--------------------|----------------------|----------------|----------------------|----------------|----------------|
|                   |                      |                 | Total Xylenes     | 1,2,4-Trichloro benzene | 1,2-Dichloro benzene  | 1,3-Dichloro benzene | 1,4-Dichlorobenzene | 2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether) | 2,4,5-Trichloro phenol | 2,4,6-Trichloro phenol | 2,4-Dichlorophenol | 2,4-Dimethylphenol | 2,4-Dinitrophenol | 2,4-Dinitrotoluene | 2,6-Dichlorophenol | 2,6-Dinitrotoluene | 2-Chloro naphthalene | 2-Chlorophenol | 2-Methyl naphthalene | 2-Methylphenol | 2-Nitroaniline |
| MDEQ GSI Criteria |                      |                 | 41                | 99 (X)                  | 13                    | 28                   | 17                  | --                                                          | --                     | --                     | --                 | --                 | --                | --                 | --                 | --                 | 18                   | 19             | --                   | --             |                |
| MW-111WT          | 5.5-10.5             | 10/01/15        | --                | --                      | --                    | --                   | --                  | --                                                          | --                     | --                     | --                 | --                 | --                | --                 | --                 | --                 | --                   | --             | --                   | --             |                |
| MW-111WT          | 5.5 - 10.5           | 09/29/16        | --                | --                      | --                    | --                   | --                  | --                                                          | --                     | --                     | --                 | --                 | --                | --                 | --                 | --                 | --                   | --             | --                   | --             |                |
| MW-114S2          | 22.5 - 27.5          | 07/17/95        | 3.0 U             | 5.0 U                   | --                    | --                   | --                  | 5.0 U                                                       | 50 U                   | 5.0 U                  | 5.0 U              | 20 U               | 5.0 U             | --                 | 5.0 U              | 5.0 U              | 5.0 U                | 5.0 U          | 5.0 U                | 20 U           |                |
| MW-114S2          | 22.5 - 27.5          | 06/07/96        | 3.0 U             | 5.0 U                   | --                    | --                   | --                  | 5.0 U                                                       | 50 U                   | 5.0 U                  | 5.0 U              | 20 U               | 5.0 U             | --                 | 5.0 U              | 5.0 U              | 5.0 U                | 5.0 U          | 5.0 U                | 20 U           |                |
| MW-114S2          | 22.5 - 27.5          | 09/29/16        | --                | --                      | --                    | --                   | --                  | --                                                          | --                     | --                     | --                 | --                 | --                | --                 | --                 | --                 | --                   | --             | --                   | --             |                |
| MW-114WT          | 3.5 - 8.5            | 06/08/96        | 3.0 U             | 5.0 U                   | --                    | --                   | --                  | 5.0 U                                                       | 50 U                   | 5.0 U                  | 5.0 U              | 20 UJ              | 5.0 U             | --                 | 5.0 U              | 5.0 U              | 5.0 U                | 5.0 U          | 5.0 U                | 20 U           |                |
| MW-114WT          | 3.5 - 8.5            | 06/08/96        | 3.0 U             | 5.0 U                   | --                    | --                   | --                  | 5.0 U                                                       | 50 U                   | 5.0 U                  | 5.0 U              | 20 UJ              | 5.0 U             | --                 | 5.0 U              | 5.0 U              | 5.0 U                | 5.0 U          | 5.0 U                | 20 U           |                |
| MW-114WT          | 3.5 - 8.5            | 03/06/97        | --                | --                      | --                    | --                   | --                  | --                                                          | --                     | --                     | --                 | --                 | --                | --                 | --                 | --                 | --                   | --             | --                   | --             |                |
| MW-114WT          | 3.5 - 8.5            | 03/06/97        | --                | --                      | --                    | --                   | --                  | --                                                          | --                     | --                     | --                 | --                 | --                | --                 | --                 | --                 | --                   | --             | --                   | --             |                |
| MW-114WT          | 3.5 - 8.5            | 12/11/97        | 3.0 U             | 5.0 U                   | --                    | --                   | --                  | 5.0 U                                                       | 50 U                   | 5.0 U                  | 5.0 U              | 20 U               | 5.0 U             | --                 | 5.0 U              | 5.0 U              | 5.0 U                | 5.0 U          | 5.0 U                | 20 U           |                |
| MW-114WT          | 3.5 - 8.5            | 12/11/97        | 3.0 U             | 5.0 U                   | --                    | --                   | --                  | 5.0 U                                                       | 50 U                   | 5.0 U                  | 5.0 U              | 20 U               | 5.0 U             | --                 | 5.0 U              | 5.0 U              | 5.0 U                | 5.0 U          | 5.0 U                | 20 U           |                |
| MW-114WT          | 3.5 - 8.5            | 05/22/00        | --                | --                      | --                    | --                   | --                  | --                                                          | --                     | --                     | --                 | --                 | --                | --                 | --                 | --                 | --                   | --             | --                   | --             |                |
| MW-114WT          | 3.5 - 8.5            | 04/05/01        | --                | --                      | --                    | --                   | --                  | --                                                          | --                     | --                     | --                 | --                 | --                | --                 | --                 | --                 | --                   | --             | --                   | --             |                |
| MW-114WT          | 3.5 - 8.5            | 06/03/04        | --                | --                      | --                    | --                   | --                  | --                                                          | --                     | --                     | --                 | --                 | --                | --                 | --                 | --                 | --                   | --             | --                   | --             |                |
| MW-114WT          | 3.5 - 8.5            | 08/24/05        | --                | --                      | --                    | --                   | --                  | --                                                          | --                     | --                     | --                 | --                 | --                | --                 | --                 | --                 | --                   | --             | --                   | --             |                |
| MW-114WT          | 3.5 - 8.5            | 09/26/13        | --                | --                      | --                    | --                   | --                  | --                                                          | --                     | --                     | --                 | --                 | --                | --                 | --                 | --                 | --                   | --             | --                   | --             |                |
| MW-114WT          | 3.5 - 8.5            | 09/23/14        | --                | --                      | --                    | --                   | --                  | --                                                          | --                     | --                     | --                 | --                 | --                | --                 | --                 | --                 | --                   | --             | --                   | --             |                |
| MW-114WT          | 3.5 - 8.5            | 10/02/15        | --                | --                      | --                    | --                   | --                  | --                                                          | --                     | --                     | --                 | --                 | --                | --                 | --                 | --                 | --                   | --             | --                   | --             |                |
| MW-114WT          | 3.5 - 8.5            | 09/29/16        | --                | --                      | --                    | --                   | --                  | --                                                          | --                     | --                     | --                 | --                 | --                | --                 | --                 | --                 | --                   | --             | --                   | --             |                |
| MW-149WT          | 7 - 17               | 06/12/96        | 3.0 U             | 5.0 U                   | --                    | --                   | --                  | 5.0 U                                                       | 50 U                   | 5.0 U                  | 5.0 U              | 20 U               | 5.0 U             | --                 | 5.0 U              | 5.0 U              | 5.0 U                | 5.0 U          | 5.0 U                | 20 U           |                |
| MW-149WT          | 7 - 17               | 03/10/97        | --                | --                      | --                    | --                   | --                  | --                                                          | --                     | --                     | --                 | --                 | --                | --                 | --                 | --                 | --                   | --             | --                   | --             |                |
| MW-149WT          | 7 - 17               | 09/29/16        | --                | --                      | --                    | --                   | --                  | --                                                          | --                     | --                     | --                 | --                 | --                | --                 | --                 | --                 | --                   | --             | --                   | --             |                |
| MW-185WT          | 3 - 8                | 06/03/04        | --                | --                      | --                    | --                   | --                  | --                                                          | --                     | --                     | --                 | --                 | --                | --                 | --                 | --                 | --                   | --             | --                   | --             |                |
| MW-185WT          | 3 - 8                | 08/25/05        | --                | --                      | --                    | --                   | --                  | --                                                          | --                     | --                     | --                 | --                 | --                | --                 | --                 | --                 | --                   | --             | --                   | --             |                |
| MW-185WT          | 3 - 8                | 11/28/07        | --                | --                      | --                    | --                   | --                  | --                                                          | --                     | --                     | --                 | --                 | --                | --                 | --                 | --                 | --                   | --             | --                   | --             |                |
| MW-185WT          | 3 - 8                | 09/18/12        | --                | --                      | --                    | --                   | --                  | --                                                          | --                     | --                     | --                 | --                 | --                | --                 | --                 | --                 | --                   | --             | --                   | --             |                |
| MW-185WT          | 3 - 8                | 09/25/13        | --                | --                      | --                    | --                   | --                  | --                                                          | --                     | --                     | --                 | --                 | --                | --                 | --                 | --                 | --                   | --             | --                   | --             |                |
| MW-185WT          | 3 - 8                | 09/24/14        | --                | --                      | --                    | --                   | --                  | --                                                          | --                     | --                     | --                 | --                 | --                | --                 | --                 | --                 | --                   | --             | --                   | --             |                |
| MW-185WT          | 3 - 8                | 10/01/15        | --                | --                      | --                    | --                   | --                  | --                                                          | --                     | --                     | --                 | --                 | --                | --                 | --                 | --                 | --                   | --             | --                   | --             |                |
| MW-185WT          | 3 - 8                | 09/30/16        | --                | --                      | --                    | --                   | --                  | --                                                          | --                     | --                     | --                 | --                 | --                | --                 | --                 | --                 | --                   | --             | --                   | --             |                |
| MW-186WT          | 8-18                 | 09/30/10        | --                | --                      | --                    | --                   | --                  | --                                                          | --                     | --                     | --                 | --                 | --                | --                 | --                 | --                 | --                   | --             | --                   | --             |                |
| MW-186WT          | 8-18                 | 09/23/11        | --                | --                      | --                    | --                   | --                  | --                                                          | --                     | --                     | --                 | --                 | --                | --                 | --                 | --                 | --                   | --             | --                   | --             |                |
| MW-186WT          | 8-18                 | 09/18/12        | --                | --                      | --                    | --                   | --                  | --                                                          | --                     | --                     | --                 | --                 | --                | --                 | --                 | --                 | --                   | --             | --                   | --             |                |
| MW-186WT          | 8-18                 | 09/25/13        | --                | --                      | --                    | --                   | --                  | --                                                          | --                     | --                     | --                 | --                 | --                | --                 | --                 | --                 | --                   | --             | --                   | --             |                |
| MW-186WT          | 8-18                 | 09/24/14        | --                | --                      | --                    | --                   | --                  | --                                                          | --                     | --                     | --                 | --                 | --                | --                 | --                 | --                 | --                   | --             | --                   | --             |                |
| MW-186WT          | 8-18                 | 10/02/15        | --                | --                      | --                    | --                   | --                  | --                                                          | --                     | --                     | --                 | --                 | --                | --                 | --                 | --                 | --                   | --             | --                   | --             |                |
| MW-186WT          | 8-18                 | 09/30/16        | --                | --                      | --                    | --                   | --                  | --                                                          | --                     | --                     | --                 | --                 | --                | --                 | --                 | --                 | --                   | --             | --                   | --             |                |

Table 2  
Analytical Data Summary Table - SMI Organics  
Saginaw, MI  
RACER Trust



| Sample ID:        | Sample Depth (feet): | Date Collected: | Semivolatile Organics |                  |                   |                |                            |                           |                         |                 |                            |                |                |               |              |                |              |            |          |              |                    |                |                      |                      |
|-------------------|----------------------|-----------------|-----------------------|------------------|-------------------|----------------|----------------------------|---------------------------|-------------------------|-----------------|----------------------------|----------------|----------------|---------------|--------------|----------------|--------------|------------|----------|--------------|--------------------|----------------|----------------------|----------------------|
|                   |                      |                 | 2-Nitrophenol         | 3&4-Methylphenol | Dichlorobenzidine | 3-Nitroaniline | 4,6-Dinitro-2-methylphenol | 4-Bromophenyl-phenylether | 4-Chloro-3-Methylphenol | 4-Chloroaniline | 4-Chlorophenyl-phenylether | 4-Methylphenol | 4-Nitroaniline | 4-Nitrophenol | Acenaphthene | Acenaphthylene | Acetophenone | Anthracene | Atrazine | Benzaldehyde | Benzo(a)anthracene | Benzo(a)pyrene | Benzo(b)fluoranthene | Benzo(g,h,i)perylene |
| MDEQ GSI Criteria |                      |                 | --                    | --               | --                | --             | --                         | 7.4                       | --                      | --              | --                         | --             | --             | 38            | ID           | ID             | ID           | 7.3        | --       | ID           | ID                 | ID             | ID                   |                      |
| MW-107S1          | 12.5 - 17.5          | 07/12/95        | 5.0 U                 | --               | 20 U              | 20 U           | 20 U                       | 5.0 U                     | 5.0 U                   | 20 U            | 5.0 U                      | 5.0 U          | 20 U           | 20 U          | 5.0 U        | 5.0 U          | --           | 5.0 U      | --       | --           | 5.0 U              | 5.0 U          | 5.0 U                | 5.0 U                |
| MW-107S1          | 12.5 - 17.5          | 06/07/96        | 5.0 U                 | --               | 20 U              | 20 U           | 20 U                       | 5.0 U                     | 5.0 U                   | 20 U            | 5.0 U                      | 5.0 U          | 20 U           | 20 U          | 5.0 U        | 5.0 U          | --           | 5.0 U      | --       | --           | 5.0 U              | 5.0 U          | 5.0 U                | 5.0 U                |
| MW-107S1          | 12.5 - 17.5          | 09/29/16        | --                    | --               | --                | --             | --                         | --                        | --                      | --              | --                         | --             | --             | --            | --           | --             | --           | --         | --       | --           | --                 | --             | --                   | --                   |
| MW-107WT          | 4 - 9                | 07/12/95        | 5.0 U                 | --               | 20 U              | 20 U           | 20 U                       | 5.0 U                     | 5.0 U                   | 20 U            | 5.0 U                      | 5.0 U          | 20 U           | 20 U          | 5.0 U        | 5.0 U          | --           | 5.0 U      | --       | --           | 5.0 U              | 5.0 U          | 5.0 U                | 5.0 U                |
| MW-107WT          | 4 - 9                | 06/07/96        | 5.0 U                 | --               | 20 U              | 20 U           | 20 U                       | 5.0 U                     | 5.0 U                   | 20 U            | 5.0 U                      | 5.0 U          | 20 U           | 20 U          | 5.0 U        | 5.0 U          | --           | 5.0 U      | --       | --           | 5.0 U              | 5.0 U          | 5.0 U                | 5.0 U                |
| MW-107WT          | 4 - 9                | 03/10/97        | --                    | --               | --                | --             | --                         | --                        | --                      | --              | --                         | --             | --             | --            | --           | --             | --           | --         | --       | --           | --                 | --             | --                   | --                   |
| MW-107WT          | 4 - 9                | 09/29/16        | --                    | --               | --                | --             | --                         | --                        | --                      | --              | --                         | --             | --             | --            | --           | --             | --           | --         | --       | --           | --                 | --             | --                   | --                   |
| MW-108S2          | 22 - 27              | 07/13/95        | 5.0 U                 | --               | 20 U              | 20 U           | 20 U                       | 5.0 U                     | 5.0 U                   | 20 U            | 5.0 U                      | 5.0 U          | 20 U           | 20 U          | 5.0 U        | 5.0 U          | --           | 5.0 U      | --       | --           | 5.0 U              | 5.0 U          | 5.0 U                | 5.0 U                |
| MW-108S2          | 22 - 27              | 06/08/96        | 5.0 U                 | --               | 20 U              | 20 U           | 20 U                       | 5.0 U                     | 5.0 U                   | 20 U            | 5.0 U                      | 5.0 U          | 20 U           | 20 U          | 5.0 U        | 5.0 U          | --           | 5.0 U      | --       | --           | 5.0 U              | 5.0 U          | 5.0 U                | 5.0 U                |
| MW-108S2          | 22 - 27              | 09/29/16        | --                    | --               | --                | --             | --                         | --                        | --                      | --              | --                         | --             | --             | --            | --           | --             | --           | --         | --       | --           | --                 | --             | --                   | --                   |
| MW-108WT          | 2.5 - 7.5            | 07/13/95        | 5.0 U                 | --               | 20 U              | 20 U           | 20 U                       | 5.0 U                     | 5.0 U                   | 20 U            | 5.0 U                      | 5.0 U          | 20 U           | 20 U          | 5.0 U        | 5.0 U          | --           | 5.0 U      | --       | --           | 5.0 U              | 5.0 U          | 5.0 U                | 5.0 U                |
| MW-108WT          | 2.5 - 7.5            | 06/08/96        | 5.0 U                 | --               | 20 U              | 20 U           | 20 U                       | 5.0 U                     | 5.0 U                   | 20 U            | 5.0 U                      | 5.0 U          | 20 U           | 20 U          | 5.0 U        | 5.0 U          | --           | 5.0 U      | --       | --           | 5.0 U              | 5.0 U          | 5.0 U                | 5.0 U                |
| MW-108WT          | 2.5 - 7.5            | 03/10/97        | --                    | --               | --                | --             | --                         | --                        | --                      | --              | --                         | --             | --             | --            | --           | --             | --           | --         | --       | --           | --                 | --             | --                   | --                   |
| MW-108WT          | 2.5 - 7.5            | 09/29/16        | 1.9 U                 | --               | 3.8 U             | 1.9 U          | 4.8 U                      | 1.9 U                     | 1.9 U                   | 1.9 U           | 1.9 U                      | 1.9 U          | 1.9 U          | 4.8 U         | 0.19 U       | 0.19 U         | 0.95 U       | 0.19 U     | 0.95 U   | 0.95 U       | 0.19 U             | 0.19 U         | 0.19 U               | 0.19 U               |
| MW-108WT          | 2.5 - 7.5            | 10/13/16        | --                    | --               | --                | --             | --                         | --                        | --                      | --              | --                         | --             | --             | --            | --           | --             | --           | --         | --       | --           | --                 | --             | --                   | --                   |
| MW-110WT          | UNKNOWN              | 06/12/96        | 5.0 U                 | --               | 20 U              | 20 U           | 20 U                       | 5.0 U                     | 5.0 U                   | 20 U            | 5.0 U                      | 5.0 U          | 20 U           | 20 U          | 5.0 U        | 5.0 U          | --           | 5.0 U      | --       | --           | 5.0 U              | 5.0 U          | 5.0 U                | 5.0 U                |
| MW-110WT          | UNKNOWN              | 03/06/97        | --                    | --               | --                | --             | --                         | --                        | --                      | --              | --                         | --             | --             | --            | --           | --             | --           | --         | --       | --           | --                 | --             | --                   | --                   |
| MW-110WT          | UNKNOWN              | 12/10/97        | 5.0 U                 | --               | 20 U              | 20 U           | 20 U                       | 5.0 U                     | 5.0 U                   | 20 U            | 5.0 U                      | 5.0 U          | 20 U           | 20 U          | 5.0 U        | 5.0 U          | --           | 5.0 U      | --       | --           | 5.0 U              | 5.0 U          | 5.0 U                | 5.0 U                |
| MW-110WT          | UNKNOWN              | 05/22/00        | --                    | --               | --                | --             | --                         | --                        | --                      | --              | --                         | --             | --             | --            | --           | --             | --           | --         | --       | --           | --                 | --             | --                   | --                   |
| MW-110WTR         | 10 - 15              | 06/02/04        | --                    | --               | --                | --             | --                         | --                        | --                      | --              | --                         | --             | --             | --            | --           | --             | --           | --         | --       | --           | --                 | --             | --                   | --                   |
| MW-110WTR         | 10 - 15              | 08/24/05        | --                    | --               | --                | --             | --                         | --                        | --                      | --              | --                         | --             | --             | --            | --           | --             | --           | --         | --       | --           | --                 | --             | --                   | --                   |
| MW-110WTR         | 10 - 15              | 04/02/08        | --                    | --               | --                | --             | --                         | --                        | --                      | --              | --                         | --             | --             | --            | --           | --             | --           | --         | --       | --           | --                 | --             | --                   | --                   |
| MW-110WTR         | 10 - 15              | 09/24/14        | --                    | --               | --                | --             | --                         | --                        | --                      | --              | --                         | --             | --             | --            | --           | --             | --           | --         | --       | --           | --                 | --             | --                   | --                   |
| MW-110WTR         | 10 - 15              | 10/01/15        | 1.9 U                 | 1.9 U            | 3.8 U             | 1.9 U          | 4.8 U                      | 1.9 U                     | 1.9 U                   | 1.9 U, F1       | 1.9 U                      | --             | 1.9 U          | 4.8 U         | 0.19 U       | 0.19 U         | 0.95 U       | 0.19 U     | 0.95 U   | 0.95 U       | 0.19 U             | 0.19 U         | 0.19 U               | 0.19 U               |
| MW-110WTR         | 10 - 15              | 09/29/16        | --                    | --               | --                | --             | --                         | --                        | --                      | --              | --                         | --             | --             | --            | --           | --             | --           | --         | --       | --           | --                 | --             | --                   | --                   |
| MW-110WTR         | 10 - 15              | 10/13/16        | --                    | --               | --                | --             | --                         | --                        | --                      | --              | --                         | --             | --             | --            | --           | --             | --           | --         | --       | --           | --                 | --             | --                   | --                   |
| MW-111WT          | 5.5 - 10.5           | 07/14/95        | 5.0 U                 | --               | 20 U              | 20 U           | 20 U                       | 5.0 U                     | 5.0 U                   | 20 U            | 5.0 U                      | 5.0 U          | 20 U           | 20 U          | 5.0 U        | 5.0 U          | --           | 5.0 U      | --       | --           | 5.0 U              | 5.0 U          | 5.0 U                | 5.0 U                |
| MW-111WT          | 5.5 - 10.5           | 06/12/96        | 5.0 U                 | --               | 20 U              | 20 U           | 20 U                       | 5.0 U                     | 5.0 U                   | 20 U            | 5.0 U                      | 5.0 U          | 20 U           | 20 U          | 5.0 U        | 5.0 U          | --           | 5.0 U      | --       | --           | 5.0 U              | 5.0 U          | 5.0 U                | 5.0 U                |
| MW-111WT          | 5.5 - 10.5           | 03/07/97        | --                    | --               | --                | --             | --                         | --                        | --                      | --              | --                         | --             | --             | --            | --           | --             | --           | --         | --       | --           | --                 | --             | --                   | --                   |
| MW-111WT          | 5.5 - 10.5           | 06/30/99        | --                    | --               | --                | --             | --                         | --                        | --                      | --              | --                         | --             | --             | --            | --           | --             | --           | --         | --       | --           | --                 | --             | --                   | --                   |
| MW-111WT          | 5.5 - 10.5           | 05/19/00        | 5.0 U                 | --               | 20 U              | 20 U           | 20 U                       | 5.0 U                     | 5.0 U                   | 10 U            | 5.0 U                      | 5.0 U          | 20 U           | 20 U          | 5.0 U        | 5.0 U          | --           | 5.0 U      | --       | --           | 5.0 U              | 5.0 U          | 5.0 U                | 5.0 U                |
| MW-111WT          | 5.5 - 10.5           | 04/05/01        | --                    | --               | --                | --             | --                         | --                        | --                      | --              | --                         | --             | --             | --            | --           | --             | --           | --         | --       | --           | --                 | --             | --                   | --                   |
| MW-111WT          | 5.5 - 10.5           | 06/02/04        | --                    | --               | --                | --             | --                         | --                        | --                      | --              | --                         | --             | --             | --            | --           | --             | --           | --         | --       | --           | --                 | --             | --                   | --                   |
| MW-111WT          | 5.5 - 10.5           | 08/26/05        | --                    | --               | --                | --             | --                         | --                        | --                      | --              | --                         | --             | --             | --            | --           | --             | --           | --         | --       | --           | --                 | --             | --                   | --                   |
| MW-111WT          | 5.5 - 10.5           | 04/02/08        | --                    | --               | --                | --             | --                         | --                        | --                      | --              | --                         | --             | --             | --            | --           | --             | --           | --         | --       | --           | --                 | --             | --                   | --                   |
| MW-111WT          | 5.5-10.5             | 09/18/12        | --                    | --               | --                | --             | --                         | --                        | --                      | --              | --                         | --             | --             | --            | --           | --             | --           | --         | --       | --           | --                 | --             | --                   | --                   |
| MW-111WT          | 5.5-10.5             | 09/26/13        | --                    | --               | --                | --             | --                         | --                        | --                      | --              | --                         | --             | --             | --            | --           | --             | --           | --         | --       | --           | --                 | --             | --                   | --                   |
| MW-111WT          | 5.5-10.5             | 09/23/14        | --                    | --               | --                | --             | --                         | --                        | --                      | --              | --                         | --             | --             | --            | --           | --             | --           | --         | --       | --           | --                 | --             | --                   | --                   |

Table 2  
Analytical Data Summary Table - SMI Organics  
Saginaw, MI  
RACER Trust



| Sample ID:        | Sample Depth (feet): | Semivolatile Organics |               |                  |                        |                |                            |                           |                         |                 |                            |                |                |               |              |                |              |            |          |              |                    |                |                      |                      |
|-------------------|----------------------|-----------------------|---------------|------------------|------------------------|----------------|----------------------------|---------------------------|-------------------------|-----------------|----------------------------|----------------|----------------|---------------|--------------|----------------|--------------|------------|----------|--------------|--------------------|----------------|----------------------|----------------------|
|                   |                      | Date Collected:       | 2-Nitrophenol | 3&4-Methylphenol | 3,3'-Dichlorobenzidine | 3-Nitroaniline | 4,6-Dinitro-2-methylphenol | 4-Bromophenyl-phenylether | 4-Chloro-3-Methylphenol | 4-Chloroaniline | 4-Chlorophenyl-phenylether | 4-Methylphenol | 4-Nitroaniline | 4-Nitrophenol | Acenaphthene | Acenaphthylene | Acetophenone | Anthracene | Atrazine | Benzaldehyde | Benzo(a)anthracene | Benzo(a)pyrene | Benzo(b)fluoranthene | Benzo(g,h,i)perylene |
| MDEQ GSI Criteria |                      |                       | --            | --               | --                     | --             | --                         | 7.4                       | --                      | --              | --                         | --             | --             | 38            | ID           | ID             | ID           | 7.3        | --       | ID           | ID                 | ID             | ID                   |                      |
| MW-111WT          | 5.5-10.5             | 10/01/15              | --            | --               | --                     | --             | --                         | --                        | --                      | --              | --                         | --             | --             | --            | --           | --             | --           | --         | --       | --           | --                 | --             | --                   |                      |
| MW-111WT          | 5.5 - 10.5           | 09/29/16              | --            | --               | --                     | --             | --                         | --                        | --                      | --              | --                         | --             | --             | --            | --           | --             | --           | --         | --       | --           | --                 | --             | --                   |                      |
| MW-114S2          | 22.5 - 27.5          | 07/17/95              | 5.0 U         | --               | 20 U                   | 20 U           | 20 U                       | 5.0 U                     | 5.0 U                   | 20 U            | 5.0 U                      | 5.0 U          | 20 U           | 20 UJ         | 5.0 U        | 5.0 U          | --           | 5.0 U      | --       | --           | 5.0 U              | 5.0 U          | 5.0 U                | 5.0 U                |
| MW-114S2          | 22.5 - 27.5          | 06/07/96              | 5.0 U         | --               | 20 U                   | 20 U           | 20 U                       | 5.0 U                     | 5.0 U                   | 20 U            | 5.0 U                      | 5.0 U          | 20 U           | 20 U          | 5.0 U        | 5.0 U          | --           | 5.0 U      | --       | --           | 5.0 U              | 5.0 U          | 5.0 U                | 5.0 U                |
| MW-114S2          | 22.5 - 27.5          | 09/29/16              | --            | --               | --                     | --             | --                         | --                        | --                      | --              | --                         | --             | --             | --            | --           | --             | --           | --         | --       | --           | --                 | --             | --                   |                      |
| MW-114WT          | 3.5 - 8.5            | 06/08/96              | 5.0 U         | --               | 20 U                   | 20 U           | 20 U                       | 5.0 U                     | 5.0 U                   | 20 U            | 5.0 U                      | 5.0 U          | 20 U           | 20 UJ         | 5.0 U        | 5.0 U          | --           | 5.0 U      | --       | --           | 5.0 U              | 5.0 U          | 5.0 U                | 5.0 U                |
| MW-114WT          | 3.5 - 8.5            | 06/08/96              | 5.0 U         | --               | 20 U                   | 20 U           | 20 U                       | 5.0 U                     | 5.0 U                   | 20 U            | 5.0 U                      | 5.0 U          | 20 U           | 20 UJ         | 5.0 U        | 5.0 U          | --           | 5.0 U      | --       | --           | 5.0 U              | 5.0 U          | 5.0 U                | 5.0 U                |
| MW-114WT          | 3.5 - 8.5            | 03/06/97              | --            | --               | --                     | --             | --                         | --                        | --                      | --              | --                         | --             | --             | --            | --           | --             | --           | --         | --       | --           | --                 | --             | --                   |                      |
| MW-114WT          | 3.5 - 8.5            | 03/06/97              | --            | --               | --                     | --             | --                         | --                        | --                      | --              | --                         | --             | --             | --            | --           | --             | --           | --         | --       | --           | --                 | --             | --                   |                      |
| MW-114WT          | 3.5 - 8.5            | 12/11/97              | 5.0 U         | --               | 20 U                   | 20 U           | 20 U                       | 5.0 U                     | 5.0 U                   | 20 U            | 5.0 U                      | 5.0 U          | 20 U           | 20 U          | 5.0 U        | 5.0 U          | --           | 5.0 U      | --       | --           | 5.0 U              | 5.0 U          | 5.0 U                | 5.0 U                |
| MW-114WT          | 3.5 - 8.5            | 12/11/97              | 5.0 U         | --               | 20 U                   | 20 U           | 20 U                       | 5.0 U                     | 5.0 U                   | 20 U            | 5.0 U                      | 5.0 U          | 20 U           | 20 U          | 5.0 U        | 5.0 U          | --           | 5.0 U      | --       | --           | 5.0 U              | 5.0 U          | 5.0 U                | 5.0 U                |
| MW-114WT          | 3.5 - 8.5            | 05/22/00              | --            | --               | --                     | --             | --                         | --                        | --                      | --              | --                         | --             | --             | --            | --           | --             | --           | --         | --       | --           | --                 | --             | --                   |                      |
| MW-114WT          | 3.5 - 8.5            | 04/05/01              | --            | --               | --                     | --             | --                         | --                        | --                      | --              | --                         | --             | --             | --            | --           | --             | --           | --         | --       | --           | --                 | --             | --                   |                      |
| MW-114WT          | 3.5 - 8.5            | 06/03/04              | --            | --               | --                     | --             | --                         | --                        | --                      | --              | --                         | --             | --             | --            | --           | --             | --           | --         | --       | --           | --                 | --             | --                   |                      |
| MW-114WT          | 3.5 - 8.5            | 08/24/05              | --            | --               | --                     | --             | --                         | --                        | --                      | --              | --                         | --             | --             | --            | --           | --             | --           | --         | --       | --           | --                 | --             | --                   |                      |
| MW-114WT          | 3.5 - 8.5            | 09/26/13              | --            | --               | --                     | --             | --                         | --                        | --                      | --              | --                         | --             | --             | --            | --           | --             | --           | --         | --       | --           | --                 | --             | --                   |                      |
| MW-114WT          | 3.5 - 8.5            | 09/23/14              | --            | --               | --                     | --             | --                         | --                        | --                      | --              | --                         | --             | --             | --            | --           | --             | --           | --         | --       | --           | --                 | --             | --                   |                      |
| MW-114WT          | 3.5 - 8.5            | 10/02/15              | --            | --               | --                     | --             | --                         | --                        | --                      | --              | --                         | --             | --             | --            | --           | --             | --           | --         | --       | --           | --                 | --             | --                   |                      |
| MW-114WT          | 3.5 - 8.5            | 09/29/16              | --            | --               | --                     | --             | --                         | --                        | --                      | --              | --                         | --             | --             | --            | --           | --             | --           | --         | --       | --           | --                 | --             | --                   |                      |
| MW-149WT          | 7 - 17               | 06/12/96              | 5.0 U         | --               | 20 U                   | 20 U           | 20 U                       | 5.0 U                     | 5.0 U                   | 20 U            | 5.0 U                      | 5.0 U          | 20 U           | 20 U          | 5.0 U        | 5.0 U          | --           | 5.0 U      | --       | --           | 5.0 U              | 5.0 U          | 5.0 U                | 5.0 U                |
| MW-149WT          | 7 - 17               | 03/10/97              | --            | --               | --                     | --             | --                         | --                        | --                      | --              | --                         | --             | --             | --            | --           | --             | --           | --         | --       | --           | --                 | --             | --                   |                      |
| MW-149WT          | 7 - 17               | 09/29/16              | --            | --               | --                     | --             | --                         | --                        | --                      | --              | --                         | --             | --             | --            | --           | --             | --           | --         | --       | --           | --                 | --             | --                   |                      |
| MW-185WT          | 3 - 8                | 06/03/04              | --            | --               | --                     | --             | --                         | --                        | --                      | --              | --                         | --             | --             | --            | --           | --             | --           | --         | --       | --           | --                 | --             | --                   |                      |
| MW-185WT          | 3 - 8                | 08/25/05              | --            | --               | --                     | --             | --                         | --                        | --                      | --              | --                         | --             | --             | --            | --           | --             | --           | --         | --       | --           | --                 | --             | --                   |                      |
| MW-185WT          | 3 - 8                | 11/28/07              | --            | --               | --                     | --             | --                         | --                        | --                      | --              | --                         | --             | --             | --            | --           | --             | --           | --         | --       | --           | --                 | --             | --                   |                      |
| MW-185WT          | 3 - 8                | 09/18/12              | --            | --               | --                     | --             | --                         | --                        | --                      | --              | --                         | --             | --             | --            | --           | --             | --           | --         | --       | --           | --                 | --             | --                   |                      |
| MW-185WT          | 3 - 8                | 09/25/13              | --            | --               | --                     | --             | --                         | --                        | --                      | --              | --                         | --             | --             | --            | --           | --             | --           | --         | --       | --           | --                 | --             | --                   |                      |
| MW-185WT          | 3 - 8                | 09/24/14              | --            | --               | --                     | --             | --                         | --                        | --                      | --              | --                         | --             | --             | --            | --           | --             | --           | --         | --       | --           | --                 | --             | --                   |                      |
| MW-185WT          | 3 - 8                | 10/01/15              | --            | --               | --                     | --             | --                         | --                        | --                      | --              | --                         | --             | --             | --            | --           | --             | --           | --         | --       | --           | --                 | --             | --                   |                      |
| MW-185WT          | 3 - 8                | 09/30/16              | --            | --               | --                     | --             | --                         | --                        | --                      | --              | --                         | --             | --             | --            | --           | --             | --           | --         | --       | --           | --                 | --             | --                   |                      |
| MW-186WT          | 8-18                 | 09/30/10              | --            | --               | --                     | --             | --                         | --                        | --                      | --              | --                         | --             | --             | --            | --           | --             | --           | --         | --       | --           | --                 | --             | --                   |                      |
| MW-186WT          | 8-18                 | 09/23/11              | --            | --               | --                     | --             | --                         | --                        | --                      | --              | --                         | --             | --             | --            | --           | --             | --           | --         | --       | --           | --                 | --             | --                   |                      |
| MW-186WT          | 8-18                 | 09/18/12              | --            | --               | --                     | --             | --                         | --                        | --                      | --              | --                         | --             | --             | --            | --           | --             | --           | --         | --       | --           | --                 | --             | --                   |                      |
| MW-186WT          | 8-18                 | 09/25/13              | --            | --               | --                     | --             | --                         | --                        | --                      | --              | --                         | --             | --             | --            | --           | --             | --           | --         | --       | --           | --                 | --             | --                   |                      |
| MW-186WT          | 8-18                 | 09/24/14              | --            | --               | --                     | --             | --                         | --                        | --                      | --              | --                         | --             | --             | --            | --           | --             | --           | --         | --       | --           | --                 | --             | --                   |                      |
| MW-186WT          | 8-18                 | 10/02/15              | --            | --               | --                     | --             | --                         | --                        | --                      | --              | --                         | --             | --             | --            | --           | --             | --           | --         | --       | --           | --                 | --             | --                   |                      |
| MW-186WT          | 8-18                 | 09/30/16              | --            | --               | --                     | --             | --                         | --                        | --                      | --              | --                         | --             | --             | --            | --           | --             | --           | --         | --       | --           | --                 | --             | --                   |                      |

Table 2  
Analytical Data Summary Table - SMI Organics  
Saginaw, MI  
RACER Trust



| Sample ID:        | Sample Depth (feet): | Date Collected: | Semivolatile Organics |          |                             |                          |                             |                      |             |             |          |                         |               |                   |                    |                     |                     |              |          |                    |                      |                             |                   |                        |
|-------------------|----------------------|-----------------|-----------------------|----------|-----------------------------|--------------------------|-----------------------------|----------------------|-------------|-------------|----------|-------------------------|---------------|-------------------|--------------------|---------------------|---------------------|--------------|----------|--------------------|----------------------|-----------------------------|-------------------|------------------------|
|                   |                      |                 | Benzo(k) fluoranthene | Biphenyl | bis(2-Chloroethoxy) methane | bis(2-Chloroethyl) ether | bis(2-Ethylhexyl) phthalate | Butylbenzylphthalate | Caprolactam | Carbazole   | Chrysene | Dibenzo(a,h) anthracene | Dibenzo furan | Diethyl phthalate | Dimethyl phthalate | Di-n-Butylphthalate | Di-n-Octylphthalate | Fluoranthene | Fluorene | Hexachloro benzene | Hexachloro butadiene | Hexa chlorocyclo pentadiene | Hexachloro ethane | Indeno(1,2,3-cd)pyrene |
| MDEQ GSI Criteria |                      |                 | --                    | --       | --                          | 1.0 (M); 0.79            | 25                          | 67 (X)               | --          | 10 (M); 4.0 | ID       | ID                      | 4             | 110               | --                 | --                  | --                  | 1.6          | 12       | 0.2 (M); 0.0003    | 0.053                | ID                          | 6.7 (X)           | ID                     |
| MW-107S1          | 12.5 - 17.5          | 07/12/95        | 5.0 U                 | --       | 5.0 U                       | 5.0 U                    | 9.0                         | 5.0 U                | --          | 10 U        | 5.0 U    | 5.0 U                   | 5.0 U         | 5.0 U             | 5.0 U              | 5.0 U               | 5.0 U               | 5.0 U        | 5.0 U    | 5.0 U              | 5.0 U                | 5.0 U                       | 5.0 U             | 5.0 U                  |
| MW-107S1          | 12.5 - 17.5          | 06/07/96        | 5.0 U                 | --       | 5.0 U                       | 5.0 U                    | 11 U                        | 5.0 U                | --          | 10 U        | 5.0 U    | 5.0 U                   | 5.0 U         | 5.0 U             | 5.0 U              | 5.0 U               | 5.0 U               | 5.0 U        | 5.0 U    | 5.0 U              | 5.0 U                | 5.0 U                       | 2.0 U             | 5.0 U                  |
| MW-107S1          | 12.5 - 17.5          | 09/29/16        | --                    | --       | --                          | --                       | --                          | --                   | --          | --          | --       | --                      | --            | --                | --                 | --                  | --                  | --           | --       | --                 | --                   | --                          | --                | --                     |
| MW-107WT          | 4 - 9                | 07/12/95        | 5.0 U                 | --       | 5.0 U                       | 5.0 U                    | 0.70 J                      | 5.0 U                | --          | 10 U        | 5.0 U    | 5.0 U                   | 5.0 U         | 5.0 U             | 5.0 U              | 5.0 U               | 5.0 U               | 5.0 U        | 5.0 U    | 5.0 U              | 5.0 U                | 5.0 U                       | 5.0 U             | 5.0 U                  |
| MW-107WT          | 4 - 9                | 06/07/96        | 5.0 U                 | --       | 5.0 U                       | 5.0 U                    | 7.7 U                       | 5.0 U                | --          | 10 U        | 5.0 U    | 5.0 U                   | 5.0 U         | 5.0 U             | 5.0 U              | 5.0 U               | 5.0 U               | 5.0 U        | 5.0 U    | 5.0 U              | 5.0 U                | 5.0 U                       | 2.0 U             | 5.0 U                  |
| MW-107WT          | 4 - 9                | 03/10/97        | --                    | --       | --                          | --                       | --                          | --                   | --          | --          | --       | --                      | --            | --                | --                 | --                  | --                  | --           | --       | --                 | --                   | --                          | --                | --                     |
| MW-107WT          | 4 - 9                | 09/29/16        | --                    | --       | --                          | --                       | --                          | --                   | --          | --          | --       | --                      | --            | --                | --                 | --                  | --                  | --           | --       | --                 | --                   | --                          | --                | --                     |
| MW-108S2          | 22 - 27              | 07/13/95        | 5.0 U                 | --       | 5.0 U                       | 5.0 U                    | 5.0 U                       | 5.0 U                | --          | 10 U        | 5.0 U    | 5.0 U                   | 5.0 U         | 5.0 U             | 5.0 U              | 5.0 U               | 5.0 U               | 5.0 U        | 5.0 U    | 5.0 U              | 5.0 U                | 5.0 U                       | 5.0 U             | 5.0 U                  |
| MW-108S2          | 22 - 27              | 06/08/96        | 5.0 U                 | --       | 5.0 U                       | 5.0 U                    | 5.0 U                       | 5.0 U                | --          | 10 U        | 5.0 U    | 5.0 U                   | 5.0 U         | 5.0 U             | 5.0 U              | 5.0 U               | 5.0 U               | 5.0 U        | 5.0 U    | 5.0 U              | 5.0 U                | 5.0 U                       | 2.0 U             | 5.0 U                  |
| MW-108S2          | 22 - 27              | 09/29/16        | --                    | --       | --                          | --                       | --                          | --                   | --          | --          | --       | --                      | --            | --                | --                 | --                  | --                  | --           | --       | --                 | --                   | --                          | --                | --                     |
| MW-108WT          | 2.5 - 7.5            | 07/13/95        | 5.0 U                 | --       | 5.0 U                       | 5.0 U                    | 5.0 U                       | 5.0 U                | --          | 10 U        | 5.0 U    | 5.0 U                   | 5.0 U         | 5.0 U             | 5.0 U              | 5.0 U               | 5.0 U               | 5.0 U        | 5.0 U    | 5.0 U              | 5.0 U                | 5.0 U                       | 5.0 U             | 5.0 U                  |
| MW-108WT          | 2.5 - 7.5            | 06/08/96        | 5.0 U                 | --       | 5.0 U                       | 5.0 U                    | 5.0 UJ                      | 5.0 U                | --          | 10 U        | 5.0 U    | 5.0 U                   | 5.0 U         | 5.0 U             | 5.0 U              | 5.0 U               | 5.0 U               | 5.0 U        | 5.0 U    | 5.0 U              | 5.0 U                | 5.0 U                       | 2.0 U             | 5.0 U                  |
| MW-108WT          | 2.5 - 7.5            | 03/10/97        | --                    | --       | --                          | --                       | --                          | --                   | --          | --          | --       | --                      | --            | --                | --                 | --                  | --                  | --           | --       | --                 | --                   | --                          | --                | --                     |
| MW-108WT          | 2.5 - 7.5            | 09/29/16        | 0.19 U                | 0.95 U   | 0.95 U                      | 0.95 U                   | 1.9 U                       | 0.95 U               | 4.8 U       | 0.95 U      | 0.19 U   | 0.19 U                  | 0.95 U        | 0.95 U            | 0.95 U             | 0.95 U              | 0.95 U              | 0.19 U       | 0.19 U   | 0.19 U             | 0.95 U               | 4.8 U                       | 0.95 U            | 0.19 U                 |
| MW-108WT          | 2.5 - 7.5            | 10/13/16        | --                    | --       | --                          | --                       | --                          | --                   | --          | --          | --       | --                      | --            | --                | --                 | --                  | --                  | --           | --       | --                 | --                   | --                          | --                | --                     |
| MW-110WT          | UNKNOWN              | 06/12/96        | 5.0 U                 | --       | 5.0 U                       | 5.0 U                    | 5.0 U                       | 5.0 U                | --          | 10 U        | 5.0 U    | 5.0 U                   | 5.0 U         | 5.0 U             | 5.0 U              | 5.0 U               | 5.0 U               | 5.0 U        | 5.0 U    | 5.0 U              | 5.0 U                | 5.0 U                       | 2.0 U             | 5.0 U                  |
| MW-110WT          | UNKNOWN              | 03/06/97        | --                    | --       | --                          | --                       | --                          | --                   | --          | --          | --       | --                      | --            | --                | --                 | --                  | --                  | --           | --       | --                 | --                   | --                          | --                | --                     |
| MW-110WT          | UNKNOWN              | 12/10/97        | 5.0 U                 | --       | 5.0 U                       | 5.0 U                    | 5.0 U                       | 5.0 U                | --          | 5.0 U       | 5.0 U    | 5.0 U                   | 5.0 U         | 5.0 U             | 5.0 U              | 5.0 U               | 5.0 U               | 5.0 U        | 5.0 U    | 5.0 U              | 5.0 U                | 5.0 U                       | 5.0 U             | 5.0 U                  |
| MW-110WT          | UNKNOWN              | 05/22/00        | --                    | --       | --                          | --                       | --                          | --                   | --          | --          | --       | --                      | --            | --                | --                 | --                  | --                  | --           | --       | --                 | --                   | --                          | --                | --                     |
| MW-110WTR         | 10 - 15              | 06/02/04        | --                    | --       | --                          | --                       | --                          | --                   | --          | --          | --       | --                      | --            | --                | --                 | --                  | --                  | --           | --       | --                 | --                   | --                          | --                | --                     |
| MW-110WTR         | 10 - 15              | 08/24/05        | --                    | --       | --                          | --                       | --                          | --                   | --          | --          | --       | --                      | --            | --                | --                 | --                  | --                  | --           | --       | --                 | --                   | --                          | --                | --                     |
| MW-110WTR         | 10 - 15              | 04/02/08        | --                    | --       | --                          | --                       | --                          | --                   | --          | --          | --       | --                      | --            | --                | --                 | --                  | --                  | --           | --       | --                 | --                   | --                          | --                | --                     |
| MW-110WTR         | 10 - 15              | 09/24/14        | --                    | --       | --                          | --                       | --                          | --                   | --          | --          | --       | --                      | --            | --                | --                 | --                  | --                  | --           | --       | --                 | --                   | --                          | --                | --                     |
| MW-110WTR         | 10 - 15              | 10/01/15        | 0.19 U                | 0.95 U   | 0.95 U                      | 0.95 U                   | 1.9 U                       | 0.95 U               | 0.38 J      | 0.95 U      | 0.19 U   | 0.19 U                  | --            | 0.95 U            | 0.95 U             | 0.95 U              | 0.95 U              | 0.19 U       | 0.19 U   | 0.19 U             | 0.95 U               | 4.8 U                       | 0.95 U            | 0.19 U                 |
| MW-110WTR         | 10 - 15              | 09/29/16        | --                    | --       | --                          | --                       | --                          | --                   | --          | --          | --       | --                      | --            | --                | --                 | --                  | --                  | --           | --       | --                 | --                   | --                          | --                | --                     |
| MW-110WTR         | 10 - 15              | 10/13/16        | --                    | --       | --                          | --                       | --                          | --                   | --          | --          | --       | --                      | --            | --                | --                 | --                  | --                  | --           | --       | --                 | --                   | --                          | --                | --                     |
| MW-111WT          | 5.5 - 10.5           | 07/14/95        | 5.0 U                 | --       | 5.0 U                       | 5.0 U                    | 54                          | 5.0 U                | --          | 10 U        | 5.0 U    | 5.0 U                   | 5.0 U         | 5.0 U             | 5.0 U              | 5.0 U               | 5.0 U               | 5.0 U        | 5.0 U    | 5.0 U              | 5.0 U                | 5.0 U                       | 5.0 U             | 5.0 U                  |
| MW-111WT          | 5.5 - 10.5           | 06/12/96        | 5.0 U                 | --       | 5.0 U                       | 5.0 U                    | 5.0 U                       | 5.0 U                | --          | 10 U        | 5.0 U    | 5.0 U                   | 5.0 U         | 5.0 U             | 5.0 U              | 5.0 U               | 5.0 U               | 5.0 U        | 5.0 U    | 5.0 U              | 5.0 U                | 5.0 U                       | 2.0 U             | 5.0 U                  |
| MW-111WT          | 5.5 - 10.5           | 03/07/97        | --                    | --       | --                          | --                       | --                          | --                   | --          | --          | --       | --                      | --            | --                | --                 | --                  | --                  | --           | --       | --                 | --                   | --                          | --                | --                     |
| MW-111WT          | 5.5 - 10.5           | 06/30/99        | --                    | --       | --                          | --                       | --                          | --                   | --          | --          | --       | --                      | --            | --                | --                 | --                  | --                  | --           | --       | --                 | --                   | --                          | --                | --                     |
| MW-111WT          | 5.5 - 10.5           | 05/19/00        | 5.0 U                 | --       | 5.0 U                       | 5.0 U                    | 5.0 U                       | 5.0 U                | --          | 10 U        | 5.0 U    | 5.0 U                   | 5.0 U         | 5.0 U             | 5.0 U              | 5.0 U               | 5.0 U               | 5.0 U        | 5.0 U    | 5.0 U              | 5.0 U                | 5.0 U                       | 5.0 U             | 5.0 U                  |
| MW-111WT          | 5.5 - 10.5           | 04/05/01        | --                    | --       | --                          | --                       | --                          | --                   | --          | --          | --       | --                      | --            | --                | --                 | --                  | --                  | --           | --       | --                 | --                   | --                          | --                | --                     |
| MW-111WT          | 5.5 - 10.5           | 06/02/04        | --                    | --       | --                          | --                       | --                          | --                   | --          | --          | --       | --                      | --            | --                | --                 | --                  | --                  | --           | --       | --                 | --                   | --                          | --                | --                     |
| MW-111WT          | 5.5 - 10.5           | 08/26/05        | --                    | --       | --                          | --                       | --                          | --                   | --          | --          | --       | --                      | --            | --                | --                 | --                  | --                  | --           | --       | --                 | --                   | --                          | --                | --                     |
| MW-111WT          | 5.5 - 10.5           | 04/02/08        | --                    | --       | --                          | --                       | --                          | --                   | --          | --          | --       | --                      | --            | --                | --                 | --                  | --                  | --           | --       | --                 | --                   | --                          | --                | --                     |
| MW-111WT          | 5.5-10.5             | 09/18/12        | --                    | --       | --                          | --                       | --                          | --                   | --          | --          | --       | --                      | --            | --                | --                 | --                  | --                  | --           | --       | --                 | --                   | --                          | --                | --                     |
| MW-111WT          | 5.5-10.5             | 09/26/13        | --                    | --       | --                          | --                       | --                          | --                   | --          | --          | --       | --                      | --            | --                | --                 | --                  | --                  | --           | --       | --                 | --                   | --                          | --                | --                     |
| MW-111WT          | 5.5-10.5             | 09/23/14        | --                    | --       | --                          | --                       | --                          | --                   | --          | --          | --       | --                      | --            | --                | --                 | --                  | --                  | --           | --       | --                 | --                   | --                          | --                | --                     |



Table 2  
Analytical Data Summary Table - SMI Organics  
Saginaw, MI  
RACER Trust



| Sample ID:        | Sample Depth (feet): | Semivolatile Organics |                          |          |                                    |                                 |                                    |                          |             |             |          |                            |                  |                      |                       |                         |                         |              |          |                       |                         |                                   |                      |                            |
|-------------------|----------------------|-----------------------|--------------------------|----------|------------------------------------|---------------------------------|------------------------------------|--------------------------|-------------|-------------|----------|----------------------------|------------------|----------------------|-----------------------|-------------------------|-------------------------|--------------|----------|-----------------------|-------------------------|-----------------------------------|----------------------|----------------------------|
|                   |                      | Date Collected:       | Benzo(k)<br>fluoranthene | Biphenyl | bis(2-<br>Chloroethoxy)<br>methane | bis(2-<br>Chloroethyl)<br>ether | bis(2-<br>Ethylhexyl)<br>phthalate | Butylbenzylph<br>thalate | Caprolactam | Carbazole   | Chrysene | Dibenzo(a,h)<br>anthracene | Dibenzo<br>furan | Diethyl<br>phthalate | Dimethyl<br>phthalate | Di-n-<br>Butylphthalate | Di-n-<br>Octylphthalate | Fluoranthene | Fluorene | Hexachloro<br>benzene | Hexachloro<br>butadiene | Hexa<br>chlorocyclo<br>pentadiene | Hexachloro<br>ethane | Indeno(1,2,3-<br>cd)pyrene |
| MDEQ GSI Criteria |                      |                       | --                       | --       | --                                 | 1.0 (M); 0.79                   | 25                                 | 67 (X)                   | --          | 10 (M); 4.0 | ID       | ID                         | 4                | 110                  | --                    | --                      | --                      | 1.6          | 12       | 0.2 (M); 0.0003       | 0.053                   | ID                                | 6.7 (X)              | ID                         |
| MW-111WT          | 5.5-10.5             | 10/01/15              | --                       | --       | --                                 | --                              | --                                 | --                       | --          | --          | --       | --                         | --               | --                   | --                    | --                      | --                      | --           | --       | --                    | --                      | --                                | --                   | --                         |
| MW-111WT          | 5.5 - 10.5           | 09/29/16              | --                       | --       | --                                 | --                              | --                                 | --                       | --          | --          | --       | --                         | --               | --                   | --                    | --                      | --                      | --           | --       | --                    | --                      | --                                | --                   | --                         |
| MW-114S2          | 22.5 - 27.5          | 07/17/95              | 5.0 U                    | --       | 5.0 U                              | 5.0 U                           | 0.63 J                             | 5.0 U                    | --          | 10 U        | 5.0 U    | 5.0 U                      | 5.0 U            | 5.0 U                | 5.0 U                 | 5.0 U                   | 5.0 U                   | 5.0 U        | 5.0 U    | 5.0 U                 | 5.0 U                   | 5.0 U                             | 5.0 U                | 5.0 U                      |
| MW-114S2          | 22.5 - 27.5          | 06/07/96              | 5.0 U                    | --       | 5.0 U                              | 5.0 U                           | 5.0 U                              | 5.0 U                    | --          | 10 U        | 5.0 U    | 5.0 U                      | 5.0 U            | 5.0 U                | 5.0 U                 | 5.0 U                   | 5.0 U                   | 5.0 U        | 5.0 U    | 5.0 U                 | 5.0 U                   | 5.0 U                             | 2.0 U                | 5.0 U                      |
| MW-114S2          | 22.5 - 27.5          | 09/29/16              | --                       | --       | --                                 | --                              | --                                 | --                       | --          | --          | --       | --                         | --               | --                   | --                    | --                      | --                      | --           | --       | --                    | --                      | --                                | --                   | --                         |
| MW-114WT          | 3.5 - 8.5            | 06/08/96              | 5.0 U                    | --       | 5.0 U                              | 5.0 U                           | 5.0 UJ                             | 5.0 U                    | --          | 10 U        | 5.0 U    | 5.0 U                      | 5.0 U            | 5.0 U                | 5.0 U                 | 5.0 U                   | 5.0 U                   | 5.0 U        | 5.0 U    | 5.0 U                 | 5.0 U                   | 5.0 U                             | 2.0 U                | 5.0 U                      |
| MW-114WT          | 3.5 - 8.5            | 06/08/96              | 5.0 U                    | --       | 5.0 U                              | 5.0 U                           | 5.0 UJ                             | 5.0 U                    | --          | 10 U        | 5.0 U    | 5.0 U                      | 5.0 U            | 5.0 U                | 5.0 U                 | 5.0 U                   | 5.0 U                   | 5.0 U        | 5.0 U    | 5.0 U                 | 5.0 U                   | 5.0 U                             | 2.0 U                | 5.0 U                      |
| MW-114WT          | 3.5 - 8.5            | 03/06/97              | --                       | --       | --                                 | --                              | --                                 | --                       | --          | --          | --       | --                         | --               | --                   | --                    | --                      | --                      | --           | --       | --                    | --                      | --                                | --                   | --                         |
| MW-114WT          | 3.5 - 8.5            | 03/06/97              | --                       | --       | --                                 | --                              | --                                 | --                       | --          | --          | --       | --                         | --               | --                   | --                    | --                      | --                      | --           | --       | --                    | --                      | --                                | --                   | --                         |
| MW-114WT          | 3.5 - 8.5            | 12/11/97              | 5.0 U                    | --       | 5.0 U                              | 5.0 U                           | 5.0 U                              | 5.0 U                    | --          | 5.0 U       | 5.0 U    | 5.0 U                      | 5.0 U            | 5.0 U                | 5.0 U                 | 5.0 U                   | 5.0 U                   | 5.0 U        | 5.0 U    | 5.0 U                 | 5.0 U                   | 5.0 U                             | 5.0 U                | 5.0 U                      |
| MW-114WT          | 3.5 - 8.5            | 12/11/97              | 5.0 U                    | --       | 5.0 U                              | 5.0 U                           | 5.0 U                              | 5.0 U                    | --          | 5.0 U       | 5.0 U    | 5.0 U                      | 5.0 U            | 5.0 U                | 5.0 U                 | 5.0 U                   | 5.0 U                   | 5.0 U        | 5.0 U    | 5.0 U                 | 5.0 U                   | 5.0 U                             | 5.0 U                | 5.0 U                      |
| MW-114WT          | 3.5 - 8.5            | 05/22/00              | --                       | --       | --                                 | --                              | --                                 | --                       | --          | --          | --       | --                         | --               | --                   | --                    | --                      | --                      | --           | --       | --                    | --                      | --                                | --                   | --                         |
| MW-114WT          | 3.5 - 8.5            | 04/05/01              | --                       | --       | --                                 | --                              | --                                 | --                       | --          | --          | --       | --                         | --               | --                   | --                    | --                      | --                      | --           | --       | --                    | --                      | --                                | --                   | --                         |
| MW-114WT          | 3.5 - 8.5            | 06/03/04              | --                       | --       | --                                 | --                              | --                                 | --                       | --          | --          | --       | --                         | --               | --                   | --                    | --                      | --                      | --           | --       | --                    | --                      | --                                | --                   | --                         |
| MW-114WT          | 3.5 - 8.5            | 08/24/05              | --                       | --       | --                                 | --                              | --                                 | --                       | --          | --          | --       | --                         | --               | --                   | --                    | --                      | --                      | --           | --       | --                    | --                      | --                                | --                   | --                         |
| MW-114WT          | 3.5 - 8.5            | 09/26/13              | --                       | --       | --                                 | --                              | --                                 | --                       | --          | --          | --       | --                         | --               | --                   | --                    | --                      | --                      | --           | --       | --                    | --                      | --                                | --                   | --                         |
| MW-114WT          | 3.5 - 8.5            | 09/23/14              | --                       | --       | --                                 | --                              | --                                 | --                       | --          | --          | --       | --                         | --               | --                   | --                    | --                      | --                      | --           | --       | --                    | --                      | --                                | --                   | --                         |
| MW-114WT          | 3.5 - 8.5            | 10/02/15              | --                       | --       | --                                 | --                              | --                                 | --                       | --          | --          | --       | --                         | --               | --                   | --                    | --                      | --                      | --           | --       | --                    | --                      | --                                | --                   | --                         |
| MW-114WT          | 3.5 - 8.5            | 09/29/16              | --                       | --       | --                                 | --                              | --                                 | --                       | --          | --          | --       | --                         | --               | --                   | --                    | --                      | --                      | --           | --       | --                    | --                      | --                                | --                   | --                         |
| MW-149WT          | 7 - 17               | 06/12/96              | 5.0 U                    | --       | 5.0 U                              | 5.0 U                           | 5.0 U                              | 5.0 U                    | --          | 10 U        | 5.0 U    | 5.0 U                      | 5.0 U            | 5.0 U                | 5.0 U                 | 5.0 U                   | 5.0 U                   | 5.0 U        | 5.0 U    | 5.0 U                 | 5.0 U                   | 5.0 U                             | 2.0 U                | 5.0 U                      |
| MW-149WT          | 7 - 17               | 03/10/97              | --                       | --       | --                                 | --                              | --                                 | --                       | --          | --          | --       | --                         | --               | --                   | --                    | --                      | --                      | --           | --       | --                    | --                      | --                                | --                   | --                         |
| MW-149WT          | 7 - 17               | 09/29/16              | --                       | --       | --                                 | --                              | --                                 | --                       | --          | --          | --       | --                         | --               | --                   | --                    | --                      | --                      | --           | --       | --                    | --                      | --                                | --                   | --                         |
| MW-185WT          | 3 - 8                | 06/03/04              | --                       | --       | --                                 | --                              | --                                 | --                       | --          | --          | --       | --                         | --               | --                   | --                    | --                      | --                      | --           | --       | --                    | --                      | --                                | --                   | --                         |
| MW-185WT          | 3 - 8                | 08/25/05              | --                       | --       | --                                 | --                              | --                                 | --                       | --          | --          | --       | --                         | --               | --                   | --                    | --                      | --                      | --           | --       | --                    | --                      | --                                | --                   | --                         |
| MW-185WT          | 3 - 8                | 11/28/07              | --                       | --       | --                                 | --                              | --                                 | --                       | --          | --          | --       | --                         | --               | --                   | --                    | --                      | --                      | --           | --       | --                    | --                      | --                                | --                   | --                         |
| MW-185WT          | 3 - 8                | 09/18/12              | --                       | --       | --                                 | --                              | --                                 | --                       | --          | --          | --       | --                         | --               | --                   | --                    | --                      | --                      | --           | --       | --                    | --                      | --                                | --                   | --                         |
| MW-185WT          | 3 - 8                | 09/25/13              | --                       | --       | --                                 | --                              | --                                 | --                       | --          | --          | --       | --                         | --               | --                   | --                    | --                      | --                      | --           | --       | --                    | --                      | --                                | --                   | --                         |
| MW-185WT          | 3 - 8                | 09/24/14              | --                       | --       | --                                 | --                              | --                                 | --                       | --          | --          | --       | --                         | --               | --                   | --                    | --                      | --                      | --           | --       | --                    | --                      | --                                | --                   | --                         |
| MW-185WT          | 3 - 8                | 10/01/15              | --                       | --       | --                                 | --                              | --                                 | --                       | --          | --          | --       | --                         | --               | --                   | --                    | --                      | --                      | --           | --       | --                    | --                      | --                                | --                   | --                         |
| MW-185WT          | 3 - 8                | 09/30/16              | --                       | --       | --                                 | --                              | --                                 | --                       | --          | --          | --       | --                         | --               | --                   | --                    | --                      | --                      | --           | --       | --                    | --                      | --                                | --                   | --                         |
| MW-186WT          | 8-18                 | 09/30/10              | --                       | --       | --                                 | --                              | --                                 | --                       | --          | --          | --       | --                         | --               | --                   | --                    | --                      | --                      | --           | --       | --                    | --                      | --                                | --                   | --                         |
| MW-186WT          | 8-18                 | 09/23/11              | --                       | --       | --                                 | --                              | --                                 | --                       | --          | --          | --       | --                         | --               | --                   | --                    | --                      | --                      | --           | --       | --                    | --                      | --                                | --                   | --                         |
| MW-186WT          | 8-18                 | 09/18/12              | --                       | --       | --                                 | --                              | --                                 | --                       | --          | --          | --       | --                         | --               | --                   | --                    | --                      | --                      | --           | --       | --                    | --                      | --                                | --                   | --                         |
| MW-186WT          | 8-18                 | 09/25/13              | --                       | --       | --                                 | --                              | --                                 | --                       | --          | --          | --       | --                         | --               | --                   | --                    | --                      | --                      | --           | --       | --                    | --                      | --                                | --                   | --                         |
| MW-186WT          | 8-18                 | 09/24/14              | --                       | --       | --                                 | --                              | --                                 | --                       | --          | --          | --       | --                         | --               | --                   | --                    | --                      | --                      | --           | --       | --                    | --                      | --                                | --                   | --                         |
| MW-186WT          | 8-18                 | 10/02/15              | --                       | --       | --                                 | --                              | --                                 | --                       | --          | --          | --       | --                         | --               | --                   | --                    | --                      | --                      | --           | --       | --                    | --                      | --                                | --                   | --                         |
| MW-186WT          | 8-18                 | 09/30/16              | --                       | --       | --                                 | --                              | --                                 | --                       | --          | --          | --       | --                         | --               | --                   | --                    | --                      | --                      | --           | --       | --                    | --                      | --                                | --                   | --                         |

Table 2  
Analytical Data Summary Table - SMI Organics  
Saginaw, MI  
RACER Trust



| Sample ID:        | Sample Depth (feet): | Semivolatile Organics |            |             |              |                           |                            |                                |                            |                       |              |        |           |        |          |         |                        | PCBs            |                 |                 |                 |                 |
|-------------------|----------------------|-----------------------|------------|-------------|--------------|---------------------------|----------------------------|--------------------------------|----------------------------|-----------------------|--------------|--------|-----------|--------|----------|---------|------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|                   |                      | Date Collected:       | Isophorone | Naphthalene | Nitrobenzene | N-Nitro<br>sodiethylamine | N-Nitro<br>sodimethylamine | N-Nitroso-di-n-<br>propylamine | N-Nitro<br>sodiphenylamine | Penta<br>chlorophenol | Phenanthrene | Phenol | Pronamide | Pyrene | Pyridine | Safrole | Total<br>Methylphenols | Aroclor-1016    | Aroclor-1221    | Aroclor-1232    | Aroclor-1242    | Aroclor-1248    |
| MDEQ GSI Criteria |                      |                       | 1,300 (X)  | 11          | 180 (X)      | --                        | --                         | NA                             | NA                         | (G,X)                 | 2.0 (M); 1.4 | 450    | --        | ID     | --       | --      | 30 (M); 25             | --              | --              | --              | --              | --              |
| MW-107S1          | 12.5 - 17.5          | 07/12/95              | 5.0 U      | 5.0 U       | 5.0 U        | --                        | --                         | 5.0 U                          | 5.0 U                      | 20 U                  | 5.0 U        | 5.0 U  | --        | 5.0 U  | --       | --      | 5.0 U                  | --              | --              | --              | --              | --              |
| MW-107S1          | 12.5 - 17.5          | 06/07/96              | 5.0 U      | 5.0 U       | 5.0 U        | --                        | --                         | 5.0 U                          | 5.0 U                      | 25 U                  | 5.0 U        | 5.0 U  | --        | 5.0 U  | --       | --      | 5.0 U                  | --              | --              | --              | --              | --              |
| MW-107S1          | 12.5 - 17.5          | 09/29/16              | --         | --          | --           | --                        | --                         | --                             | --                         | --                    | --           | --     | --        | --     | --       | --      | --                     | --              | --              | --              | --              | --              |
| MW-107WT          | 4 - 9                | 07/12/95              | 5.0 U      | 5.0 U       | 5.0 U        | --                        | --                         | 5.0 U                          | 5.0 U                      | 20 U                  | 5.0 U        | 5.0 U  | --        | 5.0 U  | --       | --      | 5.0 U                  | --              | --              | --              | --              | --              |
| MW-107WT          | 4 - 9                | 06/07/96              | 5.0 U      | 5.0 U       | 5.0 U        | --                        | --                         | 5.0 U                          | 5.0 U                      | 25 U                  | 5.0 U        | 5.0 U  | --        | 5.0 U  | --       | --      | 5.0 U                  | --              | --              | --              | --              | --              |
| MW-107WT          | 4 - 9                | 03/10/97              | --         | --          | --           | --                        | --                         | --                             | --                         | --                    | --           | --     | --        | --     | --       | --      | --                     | --              | --              | --              | --              | --              |
| MW-107WT          | 4 - 9                | 09/29/16              | --         | --          | --           | --                        | --                         | --                             | --                         | --                    | --           | --     | --        | --     | --       | --      | --                     | --              | --              | --              | --              | --              |
| MW-108S2          | 22 - 27              | 07/13/95              | 5.0 U      | 5.0 U       | 5.0 U        | --                        | --                         | 5.0 U                          | 5.0 U                      | 25 UJ                 | 5.0 U        | 5.0 U  | --        | 5.0 UJ | --       | --      | 5.0 U                  | --              | --              | --              | --              | --              |
| MW-108S2          | 22 - 27              | 06/08/96              | 5.0 U      | 5.0 U       | 5.0 U        | --                        | --                         | 5.0 U                          | 5.0 U                      | 25 U                  | 5.0 U        | 5.0 U  | --        | 5.0 U  | --       | --      | 5.0 U                  | --              | --              | --              | --              | --              |
| MW-108S2          | 22 - 27              | 09/29/16              | --         | --          | --           | --                        | --                         | --                             | --                         | --                    | --           | --     | --        | --     | --       | --      | --                     | --              | --              | --              | --              | --              |
| MW-108WT          | 2.5 - 7.5            | 07/13/95              | 5.0 U      | 5.0 U       | 5.0 U        | --                        | --                         | 5.0 U                          | 5.0 U                      | 20 U                  | 5.0 U        | 5.0 U  | --        | 5.0 U  | --       | --      | 5.0 U                  | --              | --              | --              | --              | --              |
| MW-108WT          | 2.5 - 7.5            | 06/08/96              | 5.0 U      | 5.0 U       | 5.0 U        | --                        | --                         | 5.0 U                          | 5.0 U                      | 25 U                  | 5.0 U        | 5.0 U  | --        | 5.0 U  | --       | --      | 5.0 U                  | --              | --              | --              | --              | --              |
| MW-108WT          | 2.5 - 7.5            | 03/10/97              | --         | --          | --           | --                        | --                         | --                             | --                         | --                    | --           | --     | --        | --     | --       | --      | --                     | --              | --              | --              | --              | --              |
| MW-108WT          | 2.5 - 7.5            | 09/29/16              | 0.95 U     | 0.19 U      | 0.95 U       | 0.95 U                    | 0.95 U                     | --                             | --                         | 4.8 U                 | 0.19 U       | 0.95 U | --        | 0.19 U | --       | --      | --                     | --              | --              | --              | --              | --              |
| MW-108WT          | 2.5 - 7.5            | 10/13/16              | --         | --          | --           | --                        | --                         | --                             | --                         | --                    | --           | --     | --        | --     | --       | --      | --                     | --              | --              | --              | --              | --              |
| MW-110WT          | UNKNOWN              | 06/12/96              | 5.0 U      | 5.0 U       | 5.0 U        | --                        | --                         | 5.0 U                          | 5.0 U                      | 25 U                  | 5.0 U        | 5.0 U  | --        | 5.0 U  | --       | --      | 5.0 U                  | --              | --              | --              | --              | --              |
| MW-110WT          | UNKNOWN              | 03/06/97              | --         | --          | --           | --                        | --                         | --                             | --                         | --                    | --           | --     | --        | --     | --       | --      | --                     | --              | --              | --              | --              | --              |
| MW-110WT          | UNKNOWN              | 12/10/97              | 5.0 U      | 5.0 U       | 5.0 U        | --                        | --                         | 5.0 U                          | 5.0 U                      | 20 U                  | 5.0 U        | 5.0 U  | --        | 5.0 U  | --       | --      | 5.0 U                  | --              | --              | --              | --              | --              |
| MW-110WT          | UNKNOWN              | 05/22/00              | --         | --          | --           | --                        | --                         | --                             | --                         | --                    | --           | --     | --        | --     | --       | --      | --                     | 0.20 U          | 0.20 U          | 0.40 U          | 0.20 U          | 0.20 U          |
| MW-110WTR         | 10 - 15              | 06/02/04              | --         | --          | --           | --                        | --                         | --                             | --                         | --                    | --           | --     | --        | --     | --       | --      | --                     | --              | --              | --              | --              | --              |
| MW-110WTR         | 10 - 15              | 08/24/05              | --         | --          | --           | --                        | --                         | --                             | --                         | --                    | --           | --     | --        | --     | --       | --      | --                     | 0.20 U [0.20 U] | 0.20 U [0.20 U] | 0.20 U [0.20 U] | 0.20 U [0.20 U] | 0.20 U [0.20 U] |
| MW-110WTR         | 10 - 15              | 04/02/08              | --         | --          | --           | --                        | --                         | --                             | --                         | --                    | --           | --     | --        | --     | --       | --      | --                     | 0.20 U          | 0.20 U          | 0.20 U          | 0.20 U          | 0.20 U          |
| MW-110WTR         | 10 - 15              | 09/24/14              | --         | --          | --           | --                        | --                         | --                             | --                         | --                    | --           | --     | --        | --     | --       | --      | --                     | 0.095 U         | 0.095 U         | 0.095 U         | 0.095 U         | 0.095 U         |
| MW-110WTR         | 10 - 15              | 10/01/15              | 0.95 U     | 0.19 U      | 0.95 U       | --                        | --                         | 0.95 U                         | 0.95 U                     | 4.8 U                 | --           | 0.19 U | --        | 0.19 U | --       | --      | --                     | --              | --              | --              | --              | --              |
| MW-110WTR         | 10 - 15              | 09/29/16              | --         | --          | --           | --                        | --                         | --                             | --                         | --                    | --           | --     | --        | --     | --       | --      | --                     | 0.095 U         | 0.095 U         | 0.095 U         | 0.095 U         | 0.095 U         |
| MW-110WTR         | 10 - 15              | 10/13/16              | --         | --          | --           | --                        | --                         | --                             | --                         | --                    | --           | --     | --        | --     | --       | --      | --                     | --              | --              | --              | --              | --              |
| MW-111WT          | 5.5 - 10.5           | 07/14/95              | 5.0 U      | 5.0 U       | 5.0 U        | --                        | --                         | 5.0 U                          | 5.0 U                      | 20 U                  | 5.0 U        | 5.0 U  | --        | 5.0 U  | --       | --      | 5.0 U                  | --              | --              | --              | --              | --              |
| MW-111WT          | 5.5 - 10.5           | 06/12/96              | 5.0 U      | 5.0 U       | 5.0 U        | --                        | --                         | 5.0 U                          | 5.0 U                      | 25 U                  | 5.0 U        | 5.0 U  | --        | 5.0 U  | --       | --      | 5.0 U                  | --              | --              | --              | --              | --              |
| MW-111WT          | 5.5 - 10.5           | 03/07/97              | --         | --          | --           | --                        | --                         | --                             | --                         | --                    | --           | --     | --        | --     | --       | --      | --                     | --              | --              | --              | --              | --              |
| MW-111WT          | 5.5 - 10.5           | 06/30/99              | --         | --          | --           | --                        | --                         | --                             | --                         | --                    | --           | --     | --        | --     | --       | --      | --                     | --              | --              | --              | --              | --              |
| MW-111WT          | 5.5 - 10.5           | 05/19/00              | 5.0 U      | 5.0 U       | 5.0 U        | --                        | --                         | 5.0 U                          | 5.0 U                      | 1.0 U                 | 5.0 U        | 5.0 U  | --        | 5.0 U  | --       | --      | 5.0 U                  | 0.10 U          | 0.10 U          | 0.10 U          | 0.10 U          | 0.11            |
| MW-111WT          | 5.5 - 10.5           | 04/05/01              | --         | --          | --           | --                        | --                         | --                             | --                         | --                    | --           | --     | --        | --     | --       | --      | --                     | 0.20 U          | 0.20 U          | 0.40 U          | 0.20 U          | 0.20 U          |
| MW-111WT          | 5.5 - 10.5           | 06/02/04              | --         | --          | --           | --                        | --                         | --                             | --                         | --                    | --           | --     | --        | --     | --       | --      | --                     | 0.20 U          | 0.20 U          | 0.40 U          | 0.20 U          | 0.20 U          |
| MW-111WT          | 5.5 - 10.5           | 08/26/05              | --         | --          | --           | --                        | --                         | --                             | --                         | --                    | --           | --     | --        | --     | --       | --      | --                     | --              | --              | --              | --              | --              |
| MW-111WT          | 5.5 - 10.5           | 04/02/08              | --         | --          | --           | --                        | --                         | --                             | --                         | --                    | --           | --     | --        | --     | --       | --      | --                     | 0.20 U          | 0.20 U          | 0.20 U          | 0.20 U          | 0.20 U          |
| MW-111WT          | 5.5-10.5             | 09/18/12              | --         | --          | --           | --                        | --                         | --                             | --                         | --                    | --           | --     | --        | --     | --       | --      | --                     | 0.20 U [0.20 U] | 0.20 U [0.20 U] | 0.20 U [0.20 U] | 0.20 U [0.20 U] | 0.20 U [0.20 U] |
| MW-111WT          | 5.5-10.5             | 09/26/13              | --         | --          | --           | --                        | --                         | --                             | --                         | --                    | --           | --     | --        | --     | --       | --      | --                     | 0.098 U         | 0.098 U         | 0.098 U         | 0.098 U         | 0.098 U         |
| MW-111WT          | 5.5-10.5             | 09/23/14              | --         | --          | --           | --                        | --                         | --                             | --                         | --                    | --           | --     | --        | --     | --       | --      | --                     | 0.095 U         | 0.095 U         | 0.095 U         | 0.095 U         | 0.450           |
| MW-111WT          | 5.5-10.5             |                       | --         | --          | --           | --                        | --                         | --                             | --                         | --                    | --           | --     | --        | --     | --       | --      | --                     | 0.095 U         | 0.095 U         | 0.095 U         | 0.095 U         | 0.095 U         |



Table 2  
Analytical Data Summary Table - SMI Organics  
Saginaw, MI  
RACER Trust



| Sample ID:        | Sample Depth (feet): | Semivolatile Organics |            |             |              |                           |                            |                                |                            |                       |              |        |           |        |          |         | PCBs                   |                   |                   |                   |                   |                   |
|-------------------|----------------------|-----------------------|------------|-------------|--------------|---------------------------|----------------------------|--------------------------------|----------------------------|-----------------------|--------------|--------|-----------|--------|----------|---------|------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|                   |                      | Date Collected:       | Isophorone | Naphthalene | Nitrobenzene | N-Nitro<br>sodiethylamine | N-Nitro<br>sodimethylamine | N-Nitroso-di-n-<br>propylamine | N-Nitro<br>sodiphenylamine | Penta<br>chlorophenol | Phenanthrene | Phenol | Pronamide | Pyrene | Pyridine | Safrole | Total<br>Methylphenols | Aroclor-1016      | Aroclor-1221      | Aroclor-1232      | Aroclor-1242      | Aroclor-1248      |
| MDEQ GSI Criteria |                      |                       | 1,300 (X)  | 11          | 180 (X)      | --                        | --                         | NA                             | NA                         | (G,X)                 | 2.0 (M); 1.4 | 450    | --        | ID     | --       | --      | 30 (M); 25             | --                | --                | --                | --                | --                |
| MW-111WT          | 5.5-10.5             | 10/01/15              | --         | --          | --           | --                        | --                         | --                             | --                         | --                    | --           | --     | --        | --     | --       | --      | --                     | 0.095 U           | 0.095 U           | 0.095 U           | 0.095 U           | 0.095 U           |
| MW-111WT          | 5.5 - 10.5           | 09/29/16              | --         | --          | --           | --                        | --                         | --                             | --                         | --                    | --           | --     | --        | --     | --       | --      | --                     | 0.19 U            | 0.19 U            | 0.19 U            | 0.19 U            | 0.21              |
| MW-114S2          | 22.5 - 27.5          | 07/17/95              | 5.0 U      | 5.0 U       | 5.0 U        | --                        | --                         | 5.0 U                          | 5.0 U                      | 25 U                  | 5.0 U        | 5.0 U  | --        | 5.0 U  | --       | --      | 5.0 U                  | --                | --                | --                | --                | --                |
| MW-114S2          | 22.5 - 27.5          | 06/07/96              | 5.0 U      | 5.0 U       | 5.0 U        | --                        | --                         | 5.0 U                          | 5.0 U                      | 25 U                  | 5.0 U        | 5.0 U  | --        | 5.0 U  | --       | --      | 5.0 U                  | --                | --                | --                | --                | --                |
| MW-114S2          | 22.5 - 27.5          | 09/29/16              | --         | --          | --           | --                        | --                         | --                             | --                         | --                    | --           | --     | --        | --     | --       | --      | --                     | --                | --                | --                | --                | --                |
| MW-114WT          | 3.5 - 8.5            | 06/08/96              | 5.0 U      | 5.0 U       | 5.0 U        | --                        | --                         | 5.0 U                          | 5.0 U                      | 25 U                  | 5.0 U        | 5.0 U  | --        | 5.0 U  | --       | --      | 5.0 U                  | --                | --                | --                | --                | --                |
| MW-114WT          | 3.5 - 8.5            | 06/08/96              | 5.0 U      | 5.0 U       | 5.0 U        | --                        | --                         | 5.0 U                          | 5.0 U                      | 25 U                  | 5.0 U        | 5.0 U  | --        | 5.0 U  | --       | --      | 5.0 U                  | --                | --                | --                | --                | --                |
| MW-114WT          | 3.5 - 8.5            | 03/06/97              | --         | --          | --           | --                        | --                         | --                             | --                         | --                    | --           | --     | --        | --     | --       | --      | --                     | --                | --                | --                | --                | --                |
| MW-114WT          | 3.5 - 8.5            | 03/06/97              | --         | --          | --           | --                        | --                         | --                             | --                         | --                    | --           | --     | --        | --     | --       | --      | --                     | --                | --                | --                | --                | --                |
| MW-114WT          | 3.5 - 8.5            | 12/11/97              | 5.0 U      | 5.0 U       | 5.0 U        | --                        | --                         | 5.0 U                          | 5.0 U                      | 20 U                  | 5.0 U        | 5.0 U  | --        | 5.0 U  | --       | --      | 5.0 U                  | --                | --                | --                | --                | --                |
| MW-114WT          | 3.5 - 8.5            | 12/11/97              | 5.0 U      | 5.0 U       | 5.0 U        | --                        | --                         | 5.0 U                          | 5.0 U                      | 20 U                  | 5.0 U        | 5.0 U  | --        | 5.0 U  | --       | --      | 5.0 U                  | --                | --                | --                | --                | --                |
| MW-114WT          | 3.5 - 8.5            | 05/22/00              | --         | --          | --           | --                        | --                         | --                             | --                         | --                    | --           | --     | --        | --     | --       | --      | --                     | 0.20 U            | 0.20 U            | 0.40 U            | 0.20 U            | 0.20 U            |
| MW-114WT          | 3.5 - 8.5            | 04/05/01              | --         | --          | --           | --                        | --                         | --                             | --                         | --                    | --           | --     | --        | --     | --       | --      | --                     | 0.20 U            | 0.20 U            | 0.40 U            | 0.20 U            | 0.20 U            |
| MW-114WT          | 3.5 - 8.5            | 06/03/04              | --         | --          | --           | --                        | --                         | --                             | --                         | --                    | --           | --     | --        | --     | --       | --      | --                     | --                | --                | --                | --                | --                |
| MW-114WT          | 3.5 - 8.5            | 08/24/05              | --         | --          | --           | --                        | --                         | --                             | --                         | --                    | --           | --     | --        | --     | --       | --      | --                     | 0.20 U            | 0.20 U            | 0.20 U            | 0.20 U            | 0.20 U            |
| MW-114WT          | 3.5 - 8.5            | 09/26/13              | --         | --          | --           | --                        | --                         | --                             | --                         | --                    | --           | --     | --        | --     | --       | --      | --                     | 0.095 U           | 0.095 U           | 0.095 U           | 0.095 U           | 0.095 U           |
| MW-114WT          | 3.5 - 8.5            | 09/23/14              | --         | --          | --           | --                        | --                         | --                             | --                         | --                    | --           | --     | --        | --     | --       | --      | --                     | 0.095 U           | 0.095 U           | 0.095 U           | 0.095 U           | 0.095 U           |
| MW-114WT          | 3.5 - 8.5            | 10/02/15              | --         | --          | --           | --                        | --                         | --                             | --                         | --                    | --           | --     | --        | --     | --       | --      | --                     | 0.095 U           | 0.095 U           | 0.095 U           | 0.095 U           | 0.095 U           |
| MW-114WT          | 3.5 - 8.5            | 09/29/16              | --         | --          | --           | --                        | --                         | --                             | --                         | --                    | --           | --     | --        | --     | --       | --      | --                     | 0.095 U           | 0.095 U           | 0.095 U           | 0.095 U           | 0.095 U           |
| MW-149WT          | 7 - 17               | 06/12/96              | 5.0 U      | 5.0 U       | 5.0 U        | --                        | --                         | 5.0 U                          | 5.0 U                      | 25 U                  | 5.0 U        | 5.0 U  | --        | 5.0 U  | --       | --      | 5.0 U                  | --                | --                | --                | --                | --                |
| MW-149WT          | 7 - 17               | 03/10/97              | --         | --          | --           | --                        | --                         | --                             | --                         | --                    | --           | --     | --        | --     | --       | --      | --                     | --                | --                | --                | --                | --                |
| MW-149WT          | 7 - 17               | 09/29/16              | --         | --          | --           | --                        | --                         | --                             | --                         | --                    | --           | --     | --        | --     | --       | --      | --                     | --                | --                | --                | --                | --                |
| MW-185WT          | 3 - 8                | 06/03/04              | --         | --          | --           | --                        | --                         | --                             | --                         | --                    | --           | --     | --        | --     | --       | --      | --                     | --                | --                | --                | --                | --                |
| MW-185WT          | 3 - 8                | 08/25/05              | --         | --          | --           | --                        | --                         | --                             | --                         | --                    | --           | --     | --        | --     | --       | --      | --                     | 0.20 U            | 0.20 U            | 0.20 U            | 0.20 U            | 0.20 U            |
| MW-185WT          | 3 - 8                | 11/28/07              | --         | --          | --           | --                        | --                         | --                             | --                         | --                    | --           | --     | --        | --     | --       | --      | --                     | 0.20 U [0.20 U]   | 0.20 U [0.20 U]   | 0.20 U [0.20 U]   | 0.20 U [0.20 U]   | 0.17 J [0.20 U]   |
| MW-185WT          | 3 - 8                | 09/18/12              | --         | --          | --           | --                        | --                         | --                             | --                         | --                    | --           | --     | --        | --     | --       | --      | --                     | 0.096 U           | 0.096 U           | 0.096 U           | 0.096 U           | 0.096 U           |
| MW-185WT          | 3 - 8                | 09/25/13              | --         | --          | --           | --                        | --                         | --                             | --                         | --                    | --           | --     | --        | --     | --       | --      | --                     | 0.095 U           | 0.095 U           | 0.095 U           | 0.095 U           | 0.095 U           |
| MW-185WT          | 3 - 8                | 09/24/14              | --         | --          | --           | --                        | --                         | --                             | --                         | --                    | --           | --     | --        | --     | --       | --      | --                     | 0.095 U           | 0.095 U           | 0.095 U           | 0.095 U           | 0.095 U           |
| MW-185WT          | 3 - 8                | 10/01/15              | --         | --          | --           | --                        | --                         | --                             | --                         | --                    | --           | --     | --        | --     | --       | --      | --                     | 0.095 U           | 0.095 U           | 0.095 U           | 0.095 U           | 0.095 U           |
| MW-185WT          | 3 - 8                | 09/30/16              | --         | --          | --           | --                        | --                         | --                             | --                         | --                    | --           | --     | --        | --     | --       | --      | --                     | 0.095 U           | 0.095 U           | 0.095 U           | 0.095 U           | 0.095 U           |
| MW-186WT          | 8-18                 | 09/30/10              | --         | --          | --           | --                        | --                         | --                             | --                         | --                    | --           | --     | --        | --     | --       | --      | --                     | 0.10 U            | 0.10 U            | 0.10 U            | 0.10 U            | 0.10 U            |
| MW-186WT          | 8-18                 | 09/23/11              | --         | --          | --           | --                        | --                         | --                             | --                         | --                    | --           | --     | --        | --     | --       | --      | --                     | 0.095 U           | 0.095 U           | 0.095 U           | 0.095 U           | 0.095 U           |
| MW-186WT          | 8-18                 | 09/18/12              | --         | --          | --           | --                        | --                         | --                             | --                         | --                    | --           | --     | --        | --     | --       | --      | --                     | 0.095 U [0.095 U] | 0.095 U [0.095 U] | 0.095 U [0.095 U] | 0.095 U [0.095 U] | 0.095 U [0.095 U] |
| MW-186WT          | 8-18                 | 09/25/13              | --         | --          | --           | --                        | --                         | --                             | --                         | --                    | --           | --     | --        | --     | --       | --      | --                     | 0.095 U [0.095 U] | 0.095 U [0.095 U] | 0.095 U [0.095 U] | 0.095 U [0.095 U] | 0.095 U [0.095 U] |
| MW-186WT          | 8-18                 | 09/24/14              | --         | --          | --           | --                        | --                         | --                             | --                         | --                    | --           | --     | --        | --     | --       | --      | --                     | 0.10 U [0.097 U]  | 0.10 U [0.097 U]  | 0.10 U [0.097 U]  | 0.10 U [0.097 U]  | 0.10 U [0.097 U]  |
| MW-186WT          | 8-18                 | 10/02/15              | --         | --          | --           | --                        | --                         | --                             | --                         | --                    | --           | --     | --        | --     | --       | --      | --                     | 0.095 U [0.095 U] | 0.095 U [0.095 U] | 0.095 U [0.095 U] | 0.095 U [0.095 U] | 0.095 U [0.095 U] |
| MW-186WT          | 8-18                 | 09/30/16              | --         | --          | --           | --                        | --                         | --                             | --                         | --                    | --           | --     | --        | --     | --       | --      | --                     | 0.095 U [0.095 U] | 0.095 U [0.095 U] | 0.095 U [0.095 U] | 0.095 U [0.095 U] | 0.095 U [0.095 U] |

Table 2  
Analytical Data Summary Table - SMI Organics  
Saginaw, MI  
RACER Trust



| Sample ID:        | Sample Depth (feet): | Date Collected: | PCBs            |                 |              |                         |                 |                          |                          |                          |                          |                          |                          |                          |                          |                          |                        | Organochlorine Pesticides |              |              |
|-------------------|----------------------|-----------------|-----------------|-----------------|--------------|-------------------------|-----------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------------------------|---------------------------|--------------|--------------|
|                   |                      |                 | Aroclor-1254    | Aroclor-1260    | Aroclor-1262 | Aroclor-1268 (PCB-1268) | Total PCBs      | Aroclor-1016 (Dissolved) | Aroclor-1221 (Dissolved) | Aroclor-1232 (Dissolved) | Aroclor-1242 (Dissolved) | Aroclor-1248 (Dissolved) | Aroclor-1254 (Dissolved) | Aroclor-1260 (Dissolved) | Aroclor-1262 (Dissolved) | Aroclor-1268 (Dissolved) | Total PCBs (Dissolved) | Aroclor-1016              | Aroclor-1221 | Aroclor-1232 |
| MDEQ GSI Criteria |                      |                 | --              | --              | --           | --                      | 0.2 (M)         | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                       | 0.2 (M)                | --                        | --           | --           |
| MW-107S1          | 12.5 - 17.5          | 07/12/95        | --              | --              | --           | --                      | --              | 0.2 U                    | 0.2 U                    | 0.4 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | --                       | 0.4 U                  | 0.2 U                     | 0.2 U        | 0.4 U        |
| MW-107S1          | 12.5 - 17.5          | 06/07/96        | --              | --              | --           | --                      | --              | 0.2 U                    | 0.2 U                    | 0.4 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | --                       | 0.4 U                  | 0.2 U                     | 0.2 U        | 0.4 U        |
| MW-107S1          | 12.5 - 17.5          | 09/29/16        | --              | --              | --           | --                      | --              | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     | --                        | --           | --           |
| MW-107WT          | 4 - 9                | 07/12/95        | --              | --              | --           | --                      | --              | 0.2 U                    | 0.2 U                    | 0.4 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | --                       | 0.4 U                  | 0.2 U                     | 0.2 U        | 0.4 U        |
| MW-107WT          | 4 - 9                | 06/07/96        | --              | --              | --           | --                      | --              | 0.2 U                    | 0.2 U                    | 0.4 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | --                       | 0.4 U                  | 0.2 U                     | 0.2 U        | 0.4 U        |
| MW-107WT          | 4 - 9                | 03/10/97        | --              | --              | --           | --                      | --              | 0.2 U                    | 0.2 U                    | 0.4 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | --                       | 0.4 U                  | 0.2 U                     | 0.2 U        | 0.4 U        |
| MW-107WT          | 4 - 9                | 09/29/16        | --              | --              | --           | --                      | --              | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     | --                        | --           | --           |
| MW-108S2          | 22 - 27              | 07/13/95        | --              | --              | --           | --                      | --              | R                        | R                        | R                        | R                        | R                        | R                        | R                        | R                        | --                       | R                      | R                         | R            | R            |
| MW-108S2          | 22 - 27              | 06/08/96        | --              | --              | --           | --                      | --              | 0.2 U                    | 0.2 U                    | 0.4 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | --                       | 0.4 U                  | 0.2 U                     | 0.2 U        | 0.4 U        |
| MW-108S2          | 22 - 27              | 09/29/16        | --              | --              | --           | --                      | --              | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     | --                        | --           | --           |
| MW-108WT          | 2.5 - 7.5            | 07/13/95        | --              | --              | --           | --                      | --              | R                        | R                        | R                        | R                        | R                        | R                        | R                        | R                        | --                       | R                      | R                         | R            | R            |
| MW-108WT          | 2.5 - 7.5            | 06/08/96        | --              | --              | --           | --                      | --              | 0.2 U                    | 0.2 U                    | 0.4 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | --                       | 0.4 U                  | 0.2 U                     | 0.2 U        | 0.4 U        |
| MW-108WT          | 2.5 - 7.5            | 03/10/97        | --              | --              | --           | --                      | --              | 0.2 U                    | 0.2 U                    | 0.4 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | --                       | 0.4 U                  | 0.2 U                     | 0.2 U        | 0.4 U        |
| MW-108WT          | 2.5 - 7.5            | 09/29/16        | --              | --              | --           | --                      | --              | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     | --                        | --           | --           |
| MW-108WT          | 2.5 - 7.5            | 10/13/16        | --              | --              | --           | --                      | --              | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     | --                        | --           | --           |
| MW-110WT          | UNKNOWN              | 06/12/96        | --              | --              | --           | --                      | --              | 0.2 U                    | 0.2 U                    | 0.4 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | --                       | 0.4 U                  | 0.2 U                     | 0.2 U        | 0.4 U        |
| MW-110WT          | UNKNOWN              | 03/06/97        | --              | --              | --           | --                      | --              | 0.2 U                    | 0.2 U                    | 0.4 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | --                       | 0.4 U                  | 0.2 U                     | 0.2 U        | 0.4 U        |
| MW-110WT          | UNKNOWN              | 12/10/97        | --              | --              | --           | --                      | --              | 0.2 U                    | 0.2 U                    | 0.4 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | --                       | 0.4 U                  | 0.2 U                     | 0.2 U        | 0.4 U        |
| MW-110WT          | UNKNOWN              | 05/22/00        | 0.20 U          | 0.20 U          | --           | --                      | 0.40 U          | 0.2 U                    | 0.2 U                    | 0.4 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | --                       | 0.4 U                  | --                        | --           | --           |
| MW-110WTR         | 10 - 15              | 06/02/04        | --              | --              | --           | --                      | --              | 0.2 U                    | 0.2 U                    | 0.4 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | --                       | 0.4 U                  | --                        | --           | --           |
| MW-110WTR         | 10 - 15              | 08/24/05        | 0.20 U [0.20 U] | 0.20 U [0.20 U] | --           | --                      | 0.20 U [0.20 U] | 0.2 U [0.2 U]            | 0.2 U [0.2 U]            | 0.2 U [0.2 U]            | 0.2 U [0.2 U]            | 0.2 U [0.2 U]            | 0.2 U [0.2 U]            | 0.2 U [0.2 U]            | 0.2 U [0.2 U]            | --                       | 0.2 U [0.2 U]          | --                        | --           | --           |
| MW-110WTR         | 10 - 15              | 04/02/08        | 0.20 U          | 0.20 U          | --           | --                      | 0.20 U          | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | --                       | 0.2 U                  | --                        | --           | --           |
| MW-110WTR         | 10 - 15              | 09/24/14        | 0.095 U         | 0.095 U         | --           | --                      | 0.095 U         | 0.098 U                  | 0.098 U                  | 0.098 U                  | 0.098 U                  | 0.098 U                  | 0.098 U                  | 0.098 U                  | 0.098 U                  | --                       | 0.098 U                | --                        | --           | --           |
| MW-110WTR         | 10 - 15              | 10/01/15        | --              | --              | --           | --                      | --              | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | --                       | 0.095 U                | --                        | --           | --           |
| MW-110WTR         | 10 - 15              | 09/29/16        | 0.095 U         | 0.095 U         | --           | --                      | 0.095 U         | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | --                       | 0.095 U                | --                        | --           | --           |
| MW-110WTR         | 10 - 15              | 10/13/16        | --              | --              | --           | --                      | --              | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     | --                        | --           | --           |
| MW-111WT          | 5.5 - 10.5           | 07/14/95        | --              | --              | --           | --                      | --              | 0.21 U                   | 0.21 U                   | 0.42 U                   | 0.21 U                   | 0.21 U                   | 0.21 U                   | 0.21 U                   | 0.21 U                   | --                       | 0.42 U                 | 0.21 U                    | 0.21 U       | 0.42 U       |
| MW-111WT          | 5.5 - 10.5           | 06/12/96        | --              | --              | --           | --                      | --              | 0.2 U                    | 0.2 U                    | 0.4 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | --                       | 0.4 U                  | 0.2 U                     | 0.2 U        | 0.4 U        |
| MW-111WT          | 5.5 - 10.5           | 03/07/97        | --              | --              | --           | --                      | --              | 0.2 U                    | 0.2 U                    | 0.4 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | --                       | 0.4 U                  | 0.2 U                     | 0.2 U        | 0.4 U        |
| MW-111WT          | 5.5 - 10.5           | 06/30/99        | 0.10 U          | 0.10 U          | 0.10 U       | 0.10 U                  | 0.11            | 0.1 U                    | 0.1 U                    | 0.1 U                    | 0.1 U                    | 0.1 U                    | 0.1 U                    | 0.1 U                    | 0.1 U                    | 0.1 U                    | 0.1 U                  | --                        | --           | --           |
| MW-111WT          | 5.5 - 10.5           | 05/19/00        | 0.20 U          | 0.20 U          | --           | --                      | 0.40 U          | 0.2 U                    | 0.2 U                    | 0.4 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | --                       | 0.4 U                  | --                        | --           | --           |
| MW-111WT          | 5.5 - 10.5           | 04/05/01        | 0.20 U          | 0.20 U          | --           | --                      | 0.40 U          | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     | --                        | --           | --           |
| MW-111WT          | 5.5 - 10.5           | 06/02/04        | --              | --              | --           | --                      | --              | 0.2 U [0.2 U]            | 0.2 U [0.2 U]            | 0.4 U [0.4 U]            | 0.2 U [0.2 U]            | 0.2 U [0.2 U]            | 0.2 U [0.2 U]            | 0.2 U [0.2 U]            | 0.2 U [0.2 U]            | --                       | 0.4 U [0.4 U]          | --                        | --           | --           |
| MW-111WT          | 5.5 - 10.5           | 08/26/05        | 0.20 U          | 0.20 U          | --           | --                      | 0.20 U          | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | --                       | 0.2 U                  | --                        | --           | --           |
| MW-111WT          | 5.5 - 10.5           | 04/02/08        | 0.20 U [0.20 U] | 0.20 U [0.20 U] | --           | --                      | 0.20 U [0.20 U] | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | --                       | 0.2 U                  | --                        | --           | --           |
| MW-111WT          | 5.5-10.5             | 09/18/12        | 0.098 U         | 0.098 U         | --           | --                      | 0.098 U         | 0.096 U                  | 0.096 U                  | 0.096 U                  | 0.096 U                  | 0.082 J                  | 0.096 U                  | 0.096 U                  | 0.096 U                  | --                       | 0.082 J                | --                        | --           | --           |
| MW-111WT          | 5.5-10.5             | 09/26/13        | 0.095 U         | 0.095 U         | --           | --                      | .450            | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | --                       | 0.095 U                | --                        | --           | --           |
| MW-111WT          | 5.5-10.5             | 09/23/14        | 0.095 U         | 0.095 U         | --           | --                      | 0.095 U         | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | --                       | 0.095 U                | --                        | --           | --           |

Table 2  
Analytical Data Summary Table - SMI Organics  
Saginaw, MI  
RACER Trust



| Sample ID:        | Sample Depth (feet): | Date Collected: | PCBs              |                   |              |                         |                   |                          |                          |                          |                          |                          |                          |                          |                          |                          |                        | Organochlorine Pesticides |              |              |        |
|-------------------|----------------------|-----------------|-------------------|-------------------|--------------|-------------------------|-------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------------------------|---------------------------|--------------|--------------|--------|
|                   |                      |                 | Aroclor-1254      | Aroclor-1260      | Aroclor-1262 | Aroclor-1268 (PCB-1268) | Total PCBs        | Aroclor-1016 (Dissolved) | Aroclor-1221 (Dissolved) | Aroclor-1232 (Dissolved) | Aroclor-1242 (Dissolved) | Aroclor-1248 (Dissolved) | Aroclor-1254 (Dissolved) | Aroclor-1260 (Dissolved) | Aroclor-1262 (Dissolved) | Aroclor-1268 (Dissolved) | Total PCBs (Dissolved) | Aroclor-1016              | Aroclor-1221 | Aroclor-1232 |        |
| MDEQ GSI Criteria |                      |                 | --                | --                | --           | --                      | 0.2 (M)           | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                       | 0.2 (M)                | --                        | --           | --           |        |
| MW-111WT          | 5.5-10.5             | 10/01/15        | 0.095 U           | 0.095 U           | --           | --                      | 0.095 U           | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | --                       | --                     | 0.095 U                   | --           | --           | --     |
| MW-111WT          | 5.5 - 10.5           | 09/29/16        | 0.19 U            | 0.19 U            | --           | --                      | 0.21              | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | --                       | --                     | 0.095 U                   | --           | --           | --     |
| MW-114S2          | 22.5 - 27.5          | 07/17/95        | --                | --                | --           | --                      | --                | 0.2 U                    | 0.2 U                    | 0.41 U                   | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | --                       | --                     | 0.41 U                    | 0.21 U       | 0.21 U       | 0.41 U |
| MW-114S2          | 22.5 - 27.5          | 06/07/96        | --                | --                | --           | --                      | --                | 0.2 U                    | 0.2 U                    | 0.4 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | --                       | --                     | 0.4 U                     | 0.2 U        | 0.2 U        | 0.4 U  |
| MW-114S2          | 22.5 - 27.5          | 09/29/16        | --                | --                | --           | --                      | --                | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     | --                        | --           | --           | --     |
| MW-114WT          | 3.5 - 8.5            | 06/08/96        | --                | --                | --           | --                      | --                | 0.2 U                    | 0.2 U                    | 0.4 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | --                       | --                     | 0.4 U                     | 0.2 U        | 0.2 U        | 0.4 U  |
| MW-114WT          | 3.5 - 8.5            | 06/08/96        | --                | --                | --           | --                      | --                | 0.2 U                    | 0.2 U                    | 0.4 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | --                       | --                     | 0.4 U                     | 0.2 U        | 0.2 U        | 0.4 U  |
| MW-114WT          | 3.5 - 8.5            | 03/06/97        | --                | --                | --           | --                      | --                | 0.2 U                    | 0.2 U                    | 0.4 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | --                       | --                     | 0.4 U                     | 0.2 U        | 0.2 U        | 0.4 U  |
| MW-114WT          | 3.5 - 8.5            | 03/06/97        | --                | --                | --           | --                      | --                | 0.2 U                    | 0.2 U                    | 0.4 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | --                       | --                     | 0.4 U                     | 0.2 U        | 0.2 U        | 0.4 U  |
| MW-114WT          | 3.5 - 8.5            | 12/11/97        | --                | --                | --           | --                      | --                | 0.2 U                    | 0.2 UJ                   | 0.4 U                    | 0.2 U                    | 0.2 UJ                   | 0.2 UJ                   | 0.2 UJ                   | 0.2 U                    | --                       | --                     | 0.4 U                     | 0.2 U        | 0.2 UJ       | 0.4 U  |
| MW-114WT          | 3.5 - 8.5            | 12/11/97        | --                | --                | --           | --                      | --                | 0.2 U                    | 0.2 UJ                   | 0.4 U                    | 0.2 U                    | 0.2 UJ                   | 0.2 UJ                   | 0.2 UJ                   | 0.2 U                    | --                       | --                     | 0.4 U                     | 0.2 U        | 0.2 UJ       | 0.4 U  |
| MW-114WT          | 3.5 - 8.5            | 05/22/00        | 0.20 U            | 0.20 U            | --           | --                      | 0.40 U            | 0.2 U                    | 0.2 U                    | 0.4 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | --                       | --                     | 0.4 U                     | --           | --           | --     |
| MW-114WT          | 3.5 - 8.5            | 04/05/01        | 0.20 U            | 0.20 U            | --           | --                      | 0.40 U            | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     | --                        | --           | --           | --     |
| MW-114WT          | 3.5 - 8.5            | 06/03/04        | --                | --                | --           | --                      | --                | 0.2 U                    | 0.2 U                    | 0.4 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | --                       | --                     | 0.4 U                     | --           | --           | --     |
| MW-114WT          | 3.5 - 8.5            | 08/24/05        | 0.20 U            | 0.20 U            | --           | --                      | 0.20 U            | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | --                       | --                     | 0.2 U                     | --           | --           | --     |
| MW-114WT          | 3.5 - 8.5            | 09/26/13        | 0.095 U           | 0.095 U           | --           | --                      | 0.095 U           | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | --                       | --                     | 0.095 U                   | --           | --           | --     |
| MW-114WT          | 3.5 - 8.5            | 09/23/14        | 0.095 U           | 0.095 U           | --           | --                      | 0.095 U           | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | --                       | --                     | 0.095 U                   | --           | --           | --     |
| MW-114WT          | 3.5 - 8.5            | 10/02/15        | 0.095 U           | 0.095 U           | --           | --                      | 0.095 U           | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | --                       | --                     | 0.095 U                   | --           | --           | --     |
| MW-114WT          | 3.5 - 8.5            | 09/29/16        | 0.095 U           | 0.095 U           | --           | --                      | 0.095 U           | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | --                       | --                     | 0.095 U                   | --           | --           | --     |
| MW-149WT          | 7 - 17               | 06/12/96        | --                | --                | --           | --                      | --                | 0.2 U                    | 0.2 U                    | 0.4 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | --                       | --                     | 0.4 U                     | 0.2 U        | 0.2 U        | 0.4 U  |
| MW-149WT          | 7 - 17               | 03/10/97        | --                | --                | --           | --                      | --                | 0.2 U                    | 0.2 U                    | 0.4 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | --                       | --                     | 0.4 U                     | 0.2 U        | 0.2 U        | 0.4 U  |
| MW-149WT          | 7 - 17               | 09/29/16        | --                | --                | --           | --                      | --                | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                       | --                     | --                        | --           | --           | --     |
| MW-185WT          | 3 - 8                | 06/03/04        | --                | --                | --           | --                      | --                | 0.2 U                    | 0.2 U                    | 0.4 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | --                       | --                     | 0.4 U                     | --           | --           | --     |
| MW-185WT          | 3 - 8                | 08/25/05        | 0.20 U            | 0.20 U            | --           | --                      | 0.20 U            | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | --                       | --                     | 0.2 U                     | --           | --           | --     |
| MW-185WT          | 3 - 8                | 11/28/07        | 0.20 U [0.20 U]   | 0.20 U [0.20 U]   | --           | --                      | 0.17 J [0.20 U]   | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.2 U                    | 0.06 J                   | --                       | --                     | 0.06 J                    | --           | --           | --     |
| MW-185WT          | 3 - 8                | 09/18/12        | 0.096 U           | 0.096 U           | --           | --                      | 0.096 U           | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.041 J*                 | --                       | --                     | 0.041 J                   | --           | --           | --     |
| MW-185WT          | 3 - 8                | 09/25/13        | 0.095 U           | 0.095 U           | --           | --                      | 0.095 U           | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | --                       | --                     | 0.095 U                   | --           | --           | --     |
| MW-185WT          | 3 - 8                | 09/24/14        | 0.095 U           | 0.095 U           | --           | --                      | 0.095 U           | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | --                       | --                     | 0.095 U                   | --           | --           | --     |
| MW-185WT          | 3 - 8                | 10/01/15        | 0.095 U           | 0.095 U           | --           | --                      | 0.095 U           | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | --                       | --                     | 0.095 U                   | --           | --           | --     |
| MW-185WT          | 3 - 8                | 09/30/16        | 0.095 U           | 0.095 U           | --           | --                      | 0.095 U           | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | --                       | --                     | 0.095 U                   | --           | --           | --     |
| MW-186WT          | 8-18                 | 09/30/10        | 0.10 U            | 0.10 U            | --           | --                      | 0.10 U            | 0.10 U                   | 0.10 U                   | 0.10 U                   | 0.10 U                   | 0.10 U                   | 0.10 U                   | 0.10 U                   | 0.10 U                   | --                       | --                     | 0.10 U                    | --           | --           | --     |
| MW-186WT          | 8-18                 | 09/23/11        | 0.095 U           | 0.095 U           | --           | --                      | 0.095 U           | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | --                       | --                     | 0.095 U                   | --           | --           | --     |
| MW-186WT          | 8-18                 | 09/18/12        | 0.095 U [0.095 U] | 0.095 U [0.095 U] | --           | --                      | 0.095 U [0.095 U] | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | --                       | --                     | 0.095 U                   | --           | --           | --     |
| MW-186WT          | 8-18                 | 09/25/13        | 0.095 U [0.095 U] | 0.095 U [0.095 U] | --           | --                      | 0.095 U [0.095 U] | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | --                       | --                     | 0.095 U                   | --           | --           | --     |
| MW-186WT          | 8-18                 | 09/24/14        | 0.10 U [0.097 U]  | 0.10 U [0.097 U]  | --           | --                      | 0.10 U [0.097 U]  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | --                       | --                     | 0.095 U                   | --           | --           | --     |
| MW-186WT          | 8-18                 | 10/02/15        | 0.095 U [0.095 U] | 0.095 U [0.095 U] | --           | --                      | 0.095 U [0.095 U] | 0.095 U [0.095 U]        | 0.095 U [0.095 U]        | 0.095 U [0.095 U]        | 0.095 U [0.095 U]        | 0.095 U [0.095 U]        | 0.095 U [0.095 U]        | 0.095 U [0.095 U]        | 0.095 U [0.095 U]        | --                       | --                     | 0.095 U [0.095 U]         | --           | --           | --     |
| MW-186WT          | 8-18                 | 09/30/16        | 0.095 U [0.095 U] | 0.095 U [0.095 U] | --           | --                      | 0.095 U [0.095 U] | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | 0.095 U                  | --                       | --                     | 0.095 U                   | --           | --           | --     |

|            |                      |                 | Organochlorine Pesticides |              |              |              |
|------------|----------------------|-----------------|---------------------------|--------------|--------------|--------------|
| Sample ID: | Sample Depth (feet): | Date Collected: | Aroclor-1242              | Aroclor-1248 | Aroclor-1254 | Aroclor-1260 |
|            |                      |                 | MDEQ GSI Criteria         |              |              |              |
|            |                      |                 | --                        | --           | --           | --           |
| MW-107S1   | 12.5 - 17.5          | 07/12/95        | 0.2 U                     | 0.2 U        | 0.2 U        | 0.2 U        |
| MW-107S1   | 12.5 - 17.5          | 06/07/96        | 0.2 U                     | 0.2 U        | 0.2 U        | 0.2 U        |
| MW-107S1   | 12.5 - 17.5          | 09/29/16        | --                        | --           | --           | --           |
| MW-107WT   | 4 - 9                | 07/12/95        | 0.2 U                     | 0.2 U        | 0.2 U        | 0.2 U        |
| MW-107WT   | 4 - 9                | 06/07/96        | 0.2 U                     | 0.2 U        | 0.2 U        | 0.2 U        |
| MW-107WT   | 4 - 9                | 03/10/97        | 0.2 U                     | 0.2 U        | 0.2 U        | 0.2 U        |
| MW-107WT   | 4 - 9                | 09/29/16        | --                        | --           | --           | --           |
| MW-108S2   | 22 - 27              | 07/13/95        | R                         | R            | R            | R            |
| MW-108S2   | 22 - 27              | 06/08/96        | 0.2 U                     | 0.2 U        | 0.2 U        | 0.2 U        |
| MW-108S2   | 22 - 27              | 09/29/16        | --                        | --           | --           | --           |
| MW-108WT   | 2.5 - 7.5            | 07/13/95        | R                         | R            | R            | R            |
| MW-108WT   | 2.5 - 7.5            | 06/08/96        | 0.2 U                     | 0.2 U        | 0.2 U        | 0.2 U        |
| MW-108WT   | 2.5 - 7.5            | 03/10/97        | 0.2 U                     | 0.2 U        | 0.2 U        | 0.2 U        |
| MW-108WT   | 2.5 - 7.5            | 09/29/16        | --                        | --           | --           | --           |
| MW-108WT   | 2.5 - 7.5            | 10/13/16        | --                        | --           | --           | --           |
| MW-110WT   | UNKNOWN              | 06/12/96        | 0.2 U                     | 0.2 U        | 0.2 U        | 0.2 U        |
| MW-110WT   | UNKNOWN              | 03/06/97        | 0.2 U                     | 0.23         | 0.2 U        | 0.2 U        |
| MW-110WT   | UNKNOWN              | 12/10/97        | 0.2 U                     | 0.2 U        | 0.2 U        | 0.2 U        |
| MW-110WT   | UNKNOWN              | 05/22/00        | --                        | --           | --           | --           |
| MW-110WTR  | 10 - 15              | 06/02/04        | --                        | --           | --           | --           |
| MW-110WTR  | 10 - 15              | 08/24/05        | --                        | --           | --           | --           |
| MW-110WTR  | 10 - 15              | 04/02/08        | --                        | --           | --           | --           |
| MW-110WTR  | 10 - 15              | 09/24/14        | --                        | --           | --           | --           |
| MW-110WTR  | 10 - 15              | 10/01/15        | --                        | --           | --           | --           |
| MW-110WTR  | 10 - 15              | 09/29/16        | --                        | --           | --           | --           |
| MW-110WTR  | 10 - 15              | 10/13/16        | --                        | --           | --           | --           |
| MW-111WT   | 5.5 - 10.5           | 07/14/95        | 0.21 U                    | 0.41         | 0.21 U       | 0.21 U       |
| MW-111WT   | 5.5 - 10.5           | 06/12/96        | 0.2 U                     | 0.2 U        | 0.2 U        | 0.2 U        |
| MW-111WT   | 5.5 - 10.5           | 03/07/97        | 0.2 U                     | 0.28         | 0.2 U        | 0.2 U        |
| MW-111WT   | 5.5 - 10.5           | 06/30/99        | --                        | --           | --           | --           |
| MW-111WT   | 5.5 - 10.5           | 05/19/00        | --                        | --           | --           | --           |
| MW-111WT   | 5.5 - 10.5           | 04/05/01        | --                        | --           | --           | --           |
| MW-111WT   | 5.5 - 10.5           | 06/02/04        | --                        | --           | --           | --           |
| MW-111WT   | 5.5 - 10.5           | 08/26/05        | --                        | --           | --           | --           |
| MW-111WT   | 5.5 - 10.5           | 04/02/08        | --                        | --           | --           | --           |
| MW-111WT   | 5.5-10.5             | 09/18/12        | --                        | --           | --           | --           |
| MW-111WT   | 5.5-10.5             | 09/26/13        | --                        | --           | --           | --           |
| MW-111WT   | 5.5-10.5             | 09/23/14        | --                        | --           | --           | --           |

| Sample ID:        | Sample Depth (feet): | Date Collected: | Organochlorine Pesticides |              |              |              |
|-------------------|----------------------|-----------------|---------------------------|--------------|--------------|--------------|
|                   |                      |                 | Aroclor-1242              | Aroclor-1248 | Aroclor-1254 | Aroclor-1260 |
| MDEQ GSI Criteria |                      |                 | --                        | --           | --           | --           |
| MW-111WT          | 5.5-10.5             | 10/01/15        | --                        | --           | --           | --           |
| MW-111WT          | 5.5 - 10.5           | 09/29/16        | --                        | --           | --           | --           |
| MW-114S2          | 22.5 - 27.5          | 07/17/95        | 0.21 U                    | 0.21 U       | 0.21 U       | 0.21 U       |
| MW-114S2          | 22.5 - 27.5          | 06/07/96        | 0.2 U                     | 0.2 U        | 0.2 U        | 0.2 U        |
| MW-114S2          | 22.5 - 27.5          | 09/29/16        | --                        | --           | --           | --           |
| MW-114WT          | 3.5 - 8.5            | 06/08/96        | 0.2 U                     | 0.2 U        | 0.2 U        | 0.2 U        |
| MW-114WT          | 3.5 - 8.5            | 06/08/96        | 0.2 U                     | 0.2 U        | 0.2 U        | 0.2 U        |
| MW-114WT          | 3.5 - 8.5            | 03/06/97        | 0.2 U                     | 0.2 U        | 0.2 U        | 0.41         |
| MW-114WT          | 3.5 - 8.5            | 03/06/97        | 0.2 U                     | 0.2 U        | 0.2 U        | 0.41         |
| MW-114WT          | 3.5 - 8.5            | 12/11/97        | 0.2 U                     | 0.2 UJ       | 0.2 UJ       | 0.2 U        |
| MW-114WT          | 3.5 - 8.5            | 12/11/97        | 0.2 U                     | 0.2 UJ       | 0.2 UJ       | 0.2 U        |
| MW-114WT          | 3.5 - 8.5            | 05/22/00        | --                        | --           | --           | --           |
| MW-114WT          | 3.5 - 8.5            | 04/05/01        | --                        | --           | --           | --           |
| MW-114WT          | 3.5 - 8.5            | 06/03/04        | --                        | --           | --           | --           |
| MW-114WT          | 3.5 - 8.5            | 08/24/05        | --                        | --           | --           | --           |
| MW-114WT          | 3.5 - 8.5            | 09/26/13        | --                        | --           | --           | --           |
| MW-114WT          | 3.5 - 8.5            | 09/23/14        | --                        | --           | --           | --           |
| MW-114WT          | 3.5 - 8.5            | 10/02/15        | --                        | --           | --           | --           |
| MW-114WT          | 3.5 - 8.5            | 09/29/16        | --                        | --           | --           | --           |
| MW-149WT          | 7 - 17               | 06/12/96        | 0.2 U                     | 0.2 U        | 0.2 U        | 0.2 U        |
| MW-149WT          | 7 - 17               | 03/10/97        | 0.2 U                     | 0.2 U        | 0.2 U        | 0.2 U        |
| MW-149WT          | 7 - 17               | 09/29/16        | --                        | --           | --           | --           |
| MW-185WT          | 3 - 8                | 06/03/04        | --                        | --           | --           | --           |
| MW-185WT          | 3 - 8                | 08/25/05        | --                        | --           | --           | --           |
| MW-185WT          | 3 - 8                | 11/28/07        | --                        | --           | --           | --           |
| MW-185WT          | 3 - 8                | 09/18/12        | --                        | --           | --           | --           |
| MW-185WT          | 3 - 8                | 09/25/13        | --                        | --           | --           | --           |
| MW-185WT          | 3 - 8                | 09/24/14        | --                        | --           | --           | --           |
| MW-185WT          | 3 - 8                | 10/01/15        | --                        | --           | --           | --           |
| MW-185WT          | 3 - 8                | 09/30/16        | --                        | --           | --           | --           |
| MW-186WT          | 8-18                 | 09/30/10        | --                        | --           | --           | --           |
| MW-186WT          | 8-18                 | 09/23/11        | --                        | --           | --           | --           |
| MW-186WT          | 8-18                 | 09/18/12        | --                        | --           | --           | --           |
| MW-186WT          | 8-18                 | 09/25/13        | --                        | --           | --           | --           |
| MW-186WT          | 8-18                 | 09/24/14        | --                        | --           | --           | --           |
| MW-186WT          | 8-18                 | 10/02/15        | --                        | --           | --           | --           |
| MW-186WT          | 8-18                 | 09/30/16        | --                        | --           | --           | --           |

| Sample ID:        | Sample Depth (feet): | Date Collected: |
|-------------------|----------------------|-----------------|
| MDEQ GSI Criteria |                      |                 |
| MW-107S1          | 12.5 - 17.5          | 07/12/95        |
| MW-107S1          | 12.5 - 17.5          | 06/07/96        |
| MW-107S1          | 12.5 - 17.5          | 09/29/16        |
| MW-107WT          | 4 - 9                | 07/12/95        |
| MW-107WT          | 4 - 9                | 06/07/96        |
| MW-107WT          | 4 - 9                | 03/10/97        |
| MW-107WT          | 4 - 9                | 09/29/16        |
| MW-108S2          | 22 - 27              | 07/13/95        |
| MW-108S2          | 22 - 27              | 06/08/96        |
| MW-108S2          | 22 - 27              | 09/29/16        |
| MW-108WT          | 2.5 - 7.5            | 07/13/95        |
| MW-108WT          | 2.5 - 7.5            | 06/08/96        |
| MW-108WT          | 2.5 - 7.5            | 03/10/97        |
| MW-108WT          | 2.5 - 7.5            | 09/29/16        |
| MW-108WT          | 2.5 - 7.5            | 10/13/16        |
| MW-110WT          | UNKNOWN              | 06/12/96        |
| MW-110WT          | UNKNOWN              | 03/06/97        |
| MW-110WT          | UNKNOWN              | 12/10/97        |
| MW-110WT          | UNKNOWN              | 05/22/00        |
| MW-110WTR         | 10 - 15              | 06/02/04        |
| MW-110WTR         | 10 - 15              | 08/24/05        |
| MW-110WTR         | 10 - 15              | 04/02/08        |
| MW-110WTR         | 10 - 15              | 09/24/14        |
| MW-110WTR         | 10 - 15              | 10/01/15        |
| MW-110WTR         | 10 - 15              | 09/29/16        |
| MW-110WTR         | 10 - 15              | 10/13/16        |
| MW-111WT          | 5.5 - 10.5           | 07/14/95        |
| MW-111WT          | 5.5 - 10.5           | 06/12/96        |
| MW-111WT          | 5.5 - 10.5           | 03/07/97        |
| MW-111WT          | 5.5 - 10.5           | 06/30/99        |
| MW-111WT          | 5.5 - 10.5           | 05/19/00        |
| MW-111WT          | 5.5 - 10.5           | 04/05/01        |
| MW-111WT          | 5.5 - 10.5           | 06/02/04        |
| MW-111WT          | 5.5 - 10.5           | 08/26/05        |
| MW-111WT          | 5.5 - 10.5           | 04/02/08        |
| MW-111WT          | 5.5-10.5             | 09/18/12        |
| MW-111WT          | 5.5-10.5             | 09/26/13        |
| MW-111WT          | 5.5-10.5             | 09/23/14        |



| Sample ID:        | Sample Depth (feet): | Date Collected: |
|-------------------|----------------------|-----------------|
| MDEQ GSI Criteria |                      |                 |
| MW-111WT          | 5.5-10.5             | 10/01/15        |
| MW-111WT          | 5.5 - 10.5           | 09/29/16        |
| MW-114S2          | 22.5 - 27.5          | 07/17/95        |
| MW-114S2          | 22.5 - 27.5          | 06/07/96        |
| MW-114S2          | 22.5 - 27.5          | 09/29/16        |
| MW-114WT          | 3.5 - 8.5            | 06/08/96        |
| MW-114WT          | 3.5 - 8.5            | 06/08/96        |
| MW-114WT          | 3.5 - 8.5            | 03/06/97        |
| MW-114WT          | 3.5 - 8.5            | 03/06/97        |
| MW-114WT          | 3.5 - 8.5            | 12/11/97        |
| MW-114WT          | 3.5 - 8.5            | 12/11/97        |
| MW-114WT          | 3.5 - 8.5            | 05/22/00        |
| MW-114WT          | 3.5 - 8.5            | 04/05/01        |
| MW-114WT          | 3.5 - 8.5            | 06/03/04        |
| MW-114WT          | 3.5 - 8.5            | 08/24/05        |
| MW-114WT          | 3.5 - 8.5            | 09/26/13        |
| MW-114WT          | 3.5 - 8.5            | 09/23/14        |
| MW-114WT          | 3.5 - 8.5            | 10/02/15        |
| MW-114WT          | 3.5 - 8.5            | 09/29/16        |
| MW-149WT          | 7 - 17               | 06/12/96        |
| MW-149WT          | 7 - 17               | 03/10/97        |
| MW-149WT          | 7 - 17               | 09/29/16        |
| MW-185WT          | 3 - 8                | 06/03/04        |
| MW-185WT          | 3 - 8                | 08/25/05        |
| MW-185WT          | 3 - 8                | 11/28/07        |
| MW-185WT          | 3 - 8                | 09/18/12        |
| MW-185WT          | 3 - 8                | 09/25/13        |
| MW-185WT          | 3 - 8                | 09/24/14        |
| MW-185WT          | 3 - 8                | 10/01/15        |
| MW-185WT          | 3 - 8                | 09/30/16        |
| MW-186WT          | 8-18                 | 09/30/10        |
| MW-186WT          | 8-18                 | 09/23/11        |
| MW-186WT          | 8-18                 | 09/18/12        |
| MW-186WT          | 8-18                 | 09/25/13        |
| MW-186WT          | 8-18                 | 09/24/14        |
| MW-186WT          | 8-18                 | 10/02/15        |
| MW-186WT          | 8-18                 | 09/30/16        |

Table 2  
Analytical Data Summary Table - GPL Inorganics  
Saginaw, MI  
RACER Trust

| Sample ID:        | Sample Depth (feet): | Date Collected: | Inorganics |          |         |            |           |           |         |                |        |          |                 |       |            |           |
|-------------------|----------------------|-----------------|------------|----------|---------|------------|-----------|-----------|---------|----------------|--------|----------|-----------------|-------|------------|-----------|
|                   |                      |                 | Aluminum   | Antimony | Arsenic | Barium     | Beryllium | Cadmium   | Calcium | Chromium Total | Cobalt | Copper   | Cyanide (total) | Iron  | Lead       | Magnesium |
| MDEQ GSI Criteria |                      |                 | NA         | 130 (X)  | 680*    | 1758.8 (G) | 65.36 (G) | 5.9 (G,X) | --      | 216 (G,X)      | 100    | 27.4 (G) | 5.2             | --    | 57.4 (G,X) | --        |
| MW-117S1          | 24.2 - 29.2          | 06/20/95        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | 5.00 U          | --    | --         | --        |
| MW-117S1          | 24.2 - 29.2          | 07/14/95        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --    | --         | --        |
| MW-117S1          | 24.2 - 29.2          | 06/11/96        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --    | --         | --        |
| MW-117S1          | 24.2 - 29.2          | 05/19/00        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --    | --         | --        |
| MW-117S1          | 24.2 - 29.2          | 06/19/01        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --    | --         | --        |
| MW-117S1          | 24.2 - 29.2          | 06/26/02        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --    | --         | --        |
| MW-117S1          | 24.2 - 29.2          | 06/19/03        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --    | --         | --        |
| MW-117S1          | 24.2 - 29.2          | 05/27/04        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --    | --         | --        |
| MW-117S1          | 24.2 - 29.2          | 06/23/05        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --    | --         | --        |
| MW-117S1          | 24.2 - 29.2          | 12/13/06        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --    | --         | --        |
| MW-117S1          | 24.2 - 29.2          | 12/07/07        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --    | --         | --        |
| MW-117S1          | 24.2 - 29.2          | 03/14/08        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --    | --         | --        |
| MW-117S1          | 24.2 - 29.2          | 10/01/10        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --    | --         | --        |
| MW-117S1          | 24.2 - 29.2          | 09/27/11        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --    | --         | --        |
| MW-117S1          | 24.2 - 29.2          | 09/13/12        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --    | --         | --        |
| MW-117S1          | 24.2 - 29.2          | 09/24/13        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --    | --         | --        |
| MW-117S1          | 24.2 - 29.2          | 09/22/14        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --    | --         | --        |
| MW-117S1          | 24.2 - 29.2          | 09/30/15        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | 10 U            | --    | --         | --        |
| MW-117S1          | 24.2 - 29.2          | 09/27/16        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | < 0.010 U       | --    | --         | --        |
| MW-117WT          | 3 - 13               | 06/20/95        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | 5.00 U          | --    | --         | --        |
| MW-117WT          | 3 - 13               | 07/14/95        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --    | --         | --        |
| MW-117WT          | 3 - 13               | 06/11/96        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --    | --         | --        |
| MW-117WT          | 3 - 13               | 05/19/00        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --    | --         | --        |
| MW-117WT          | 3 - 13               | 06/18/01        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --    | --         | --        |
| MW-117WT          | 3 - 13               | 06/26/02        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --    | --         | --        |
| MW-117WT          | 3 - 13               | 06/19/03        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --    | --         | --        |
| MW-117WT          | 3 - 13               | 12/09/04        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --    | --         | --        |
| MW-117WT          | 3 - 13               | 06/23/05        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --    | --         | --        |
| MW-117WT          | 3 - 13               | 12/13/06        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --    | --         | --        |
| MW-117WT          | 3 - 13               | 12/07/07        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --    | --         | --        |
| MW-117WT          | 3 - 13               | 03/14/08        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --    | --         | --        |
| MW-117WT          | 3 - 13               | 10/01/10        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --    | --         | --        |
| MW-117WT          | 3 - 13               | 09/27/11        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --    | --         | --        |
| MW-117WT          | 3 - 13               | 09/13/12        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --    | --         | --        |
| MW-117WT          | 3 - 13               | 09/24/13        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --    | --         | --        |
| MW-117WT          | 3 - 13               | 09/23/14        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --    | --         | --        |
| MW-117WT          | 3 - 13               | 09/30/15        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | 10 U            | --    | --         | --        |
| MW-117WT          | 3 - 13               | 09/27/16        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | < 0.010 U       | --    | --         | --        |
| MW-117WT          | 3 - 13               | 10/13/16        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --    | --         | --        |
| MW-118S1          | 23.5 - 28.5          | 06/20/95        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | 5.00 U          | --    | --         | --        |
| MW-118S1          | 23.5 - 28.5          | 07/14/95        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --    | --         | --        |
| MW-118S1          | 23.5 - 28.5          | 06/11/96        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | 4,970 | --         | --        |
| MW-118S1          | 23.5 - 28.5          | 05/17/00        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --    | --         | --        |
| MW-118S1          | 23.5 - 28.5          | 06/19/01        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --    | --         | --        |
| MW-118S1          | 23.5 - 28.5          | 06/27/02        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --    | --         | --        |
| MW-118S1          | 23.5 - 28.5          | 06/19/03        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --    | --         | --        |
| MW-118S1          | 23.5 - 28.5          | 12/09/04        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --    | --         | --        |
| MW-118S1          | 23.5 - 28.5          | 06/23/05        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --    | --         | --        |
| MW-118S1          | 23.5 - 28.5          | 12/14/06        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --    | --         | --        |
| MW-118S1          | 23.5 - 28.5          | 12/07/07        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --    | --         | --        |
| MW-118S1          | 23.5 - 28.5          | 04/01/08        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --    | --         | --        |
| MW-118S1          | 23.5 - 28.5          | 10/01/10        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --    | --         | --        |
| MW-118S1          | 23.5 - 28.5          | 09/27/11        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --    | --         | --        |
| MW-118S1          | 23.5 - 28.5          | 09/13/12        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --    | --         | --        |
| MW-118S1          | 23.5 - 28.5          | 09/24/13        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --    | --         | --        |
| MW-118S1          | 23.5 - 28.5          | 09/22/14        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --    | --         | --        |
| MW-118S1          | 23.5 - 28.5          | 09/30/15        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | 10 U            | --    | --         | --        |
| MW-118S1          | 23.5 - 28.5          | 09/27/16        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | < 0.010 U       | --    | --         | --        |



Table 2  
Analytical Data Summary Table - GPL Inorganics  
Saginaw, MI  
RACER Trust

| Sample ID:        |             | Sample Depth (feet): | Date Collected: | Inorganics      |                   |                   |                 |                 |                 |                 |                 |                 |                   |                   |                 |                 |           |
|-------------------|-------------|----------------------|-----------------|-----------------|-------------------|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|-------------------|-----------------|-----------------|-----------|
|                   |             |                      |                 | Aluminum        | Antimony          | Arsenic           | Barium          | Beryllium       | Cadmium         | Calcium         | Chromium Total  | Cobalt          | Copper            | Cyanide (total)   | Iron            | Lead            | Magnesium |
| MDEQ GSI Criteria |             |                      |                 | NA              | 130 (X)           | 680*              | 1758.8 (G)      | 65.36 (G)       | 5.9 (G,X)       | --              | 216 (G,X)       | 100             | 27.4 (G)          | 5.2               | --              | 57.4 (G,X)      | --        |
| MW-118WT          | 1.6 - 11.6  | 06/20/95             | --              | --              | --                | --                | --              | --              | --              | --              | --              | --              | --                | 5.00 U            | --              | --              | --        |
| MW-118WT          | 1.6 - 11.6  | 07/14/95             | --              | --              | --                | --                | --              | --              | --              | --              | --              | --              | --                | --                | --              | --              | --        |
| MW-118WT          | 1.6 - 11.6  | 06/11/96             | --              | --              | --                | --                | --              | --              | --              | --              | --              | --              | --                | --                | 81,900          | --              | --        |
| MW-118WT          | 1.6 - 11.6  | 05/17/00             | --              | --              | --                | --                | --              | --              | --              | --              | --              | --              | --                | --                |                 | --              | --        |
| MW-118WT          | 1.6 - 11.6  | 06/19/01             | --              | --              | --                | --                | --              | --              | --              | --              | --              | --              | --                | --                |                 | --              | --        |
| MW-118WT          | 1.6 - 11.6  | 06/27/02             | --              | --              | --                | --                | --              | --              | --              | --              | --              | --              | --                | --                |                 | --              | --        |
| MW-118WT          | 1.6 - 11.6  | 06/19/03             | --              | --              | --                | --                | --              | --              | --              | --              | --              | --              | --                | --                |                 | --              | --        |
| MW-118WT          | 1.6 - 11.6  | 05/27/04             | --              | --              | --                | --                | --              | --              | --              | --              | --              | --              | --                | --                |                 | --              | --        |
| MW-118WT          | 1.6 - 11.6  | 06/23/05             | --              | --              | --                | --                | --              | --              | --              | --              | --              | --              | --                | --                |                 | --              | --        |
| MW-118WT          | 1.6 - 11.6  | 12/14/06             | --              | --              | --                | --                | --              | --              | --              | --              | --              | --              | --                | --                |                 | --              | --        |
| MW-118WT          | 1.6 - 11.6  | 12/07/07             | --              | --              | --                | --                | --              | --              | --              | --              | --              | --              | --                | --                |                 | --              | --        |
| MW-118WT          | 1.6 - 11.6  | 04/01/08             | --              | --              | --                | --                | --              | --              | --              | --              | --              | --              | --                | --                |                 | --              | --        |
| MW-118WT          | 1.6 - 11.6  | 09/30/10             | --              | --              | --                | --                | --              | --              | --              | --              | --              | --              | --                | --                |                 | --              | --        |
| MW-118WT          | 1.6 - 11.6  | 09/27/11             | --              | --              | --                | --                | --              | --              | --              | --              | --              | --              | --                | --                |                 | --              | --        |
| MW-118WT          | 1.6 - 11.6  | 09/13/12             | --              | --              | --                | --                | --              | --              | --              | --              | --              | --              | --                | --                |                 | --              | --        |
| MW-118WT          | 1.6 - 11.6  | 09/24/13             | --              | --              | --                | --                | --              | --              | --              | --              | --              | --              | --                | --                |                 | --              | --        |
| MW-118WT          | 1.6 - 11.6  | 09/22/14             | --              | --              | --                | --                | --              | --              | --              | --              | --              | --              | --                | --                |                 | --              | --        |
| MW-118WT          | 1.6 - 11.6  | 09/30/15             | --              | --              | --                | --                | --              | --              | --              | --              | --              | --              | --                | --                | --              | --              |           |
| MW-118WT          | 1.6 - 11.6  | 09/27/16             | --              | --              | --                | --                | --              | --              | --              | --              | --              | --              | 10 U<br>< 0.010 U | --                | --              | --              |           |
| MW-183WT          | 6 - 16      | 12/06/07             | --              | --              | --                | --                | --              | --              | --              | --              | --              | --              | --                | --                | --              | --              | --        |
| MW-183WT          | 6 - 16      | 01/09/08             | 200 U [200 U]   | 2.00 U [2.00 U] | 5.00 U [5.00 U]   | 44.1 J [44.3 J]   | 1.00 U [1.00 U] | 1.00 U [1.00 U] | 71,500 [73,100] | 5.00 U [5.00 U] | 7.00 U [7.00 U] | 2.00 U [2.00 U] | --                | 1,200 J [669 J]   | 3.00 U [3.00 U] | 13,400 [13,700] |           |
| MW-183WT          | 6 - 16      | 03/12/08             | 200 U           | 2.00 U          | 5.00 U            | 52.6 J            | 1.00 U          | 1.00 U          | 79,400          | 5.00 U          | 7.00 U          | 2.00 U          | --                | 659               | 3.00 U          | 14,500          |           |
| MW-183WT          | 6 - 16      | 09/28/10             | --              | --              | 5.0 U [6.90]      | 38.2 BJ [37.7 BJ] | --              | --              | --              | --              | --              | --              | --                | 3,850 [3,630]     | --              | --              |           |
| MW-183WT          | 6 - 16      | 09/28/11             | --              | --              | 1.90 [2.0]        | 36.0 [38.0]       | --              | --              | --              | --              | --              | --              | --                | 2,600 [2,600]     | --              | --              |           |
| MW-183WT          | 6 - 16      | 09/14/12             | --              | --              | 1.0 [0.73 J]      | 79 B [85 B]       | --              | --              | --              | --              | --              | --              | --                | 2,200 [2,100]     | --              | --              |           |
| MW-183WT          | 6 - 16      | 09/24/13             | --              | --              | 3.9 B [3.3 B]     | 85 B [83 B]       | --              | --              | --              | --              | --              | --              | --                | 4,500 B [3,800 B] | --              | --              |           |
| MW-183WT          | 6 - 16      | 09/23/14             | --              | --              | 1.8 J,B [1.9 J,B] | 43 B [45 B]       | --              | --              | --              | --              | --              | --              | --                | 2,300 B [2,600 B] | --              | --              |           |
| MW-183WT          | 6 - 16      | 10/01/15             | --              | --              | 1.5 J [1.3 J]     | 46 [45]           | --              | --              | --              | --              | --              | --              | --                | 2,500 [2,400]     | --              | --              |           |
| MW-183WT          | 6 - 16      | 09/28/16             | --              | --              | 6.0               | 41 B              | --              | --              | --              | --              | --              | --              | 0.010 U           | 5,000 B           | --              | --              |           |
| TWW-1             | 1.5 - 6.5   | 01/25/97             | --              | --              | --                | --                | --              | --              | --              | --              | --              | --              | --                | --                | --              | --              | --        |
| TWW-1             | 1.5 - 6.5   | 05/21/00             | 100 U           | 5.00 U          | 10.0 U            | 146               | 4.00 U          | 1.00 U          | 249,000         | 5.00 U          | 10.0 U          | 25.0 U          | --                | 100 U             | 3.00 U          | 84,400          |           |
| TWW-1             | 1.5 - 6.5   | 05/29/08             | --              | --              | --                | --                | --              | --              | --              | --              | --              | --              | --                | --                | --              | --              | --        |
| TWW-1             | 1.5 - 6.5   | 09/27/16             | --              | --              | --                | --                | --              | --              | --              | --              | --              | --              | --                | --                | --              | --              | --        |
| TWW-1             | 1.5 - 6.5   | 09/27/16             | --              | --              | --                | --                | --              | --              | --              | --              | --              | --              | --                | --                | --              | --              | --        |
| X-10BR            | 26.3 - 31.3 | 07/24/95             | --              | --              | --                | --                | --              | --              | --              | --              | --              | --              | 5.00 U            | --                | --              | --              | --        |
| X-10BR            | 26.3 - 31.3 | 12/15/06             | --              | --              | --                | --                | --              | --              | --              | --              | --              | --              | --                | --                | --              | --              | --        |
| X-10BR            | 26.3 - 31.3 | 12/04/07             | --              | --              | --                | --                | --              | --              | --              | --              | --              | --              | --                | --                | --              | --              | --        |
| X-10BR            | 26.3 - 31.3 | 03/12/08             | --              | --              | --                | --                | --              | --              | --              | --              | --              | --              | --                | --                | --              | --              | --        |
| X-10BR            | 26.3 - 31.3 | 09/29/10             | --              | --              | --                | --                | --              | --              | --              | --              | --              | --              | --                | --                | --              | --              | --        |
| X-10BR            | 26.3 - 31.3 | 09/22/11             | --              | --              | --                | --                | --              | --              | --              | --              | --              | --              | --                | --                | --              | --              | --        |
| X-10BR            | 26.3 - 31.3 | 09/14/12             | --              | --              | --                | --                | --              | --              | --              | --              | --              | --              | --                | --                | --              | --              | --        |
| X-10BR            | 26.3 - 31.3 | 09/24/13             | --              | --              | --                | --                | --              | --              | --              | --              | --              | --              | --                | --                | --              | --              | --        |
| X-4AR             | 3.3 - 8.3   | 07/24/95             | 42,600          | 5.00 U          | 12.7              | 431               | 5.00 U          | 2.00 J          | 481,000         | 70.0            | 50.0 U          | 60.0            | 5.00 U            | 72,400            | 27.4            | 141,000         |           |
| X-4AR             | 3.3 - 8.3   | 06/09/96             | 315 U           | 5.00 U          | 5.00 U            | 200 U             | 5.00 U          | 0.500 U         | 173,000         | 50.0 U          | 50.0 U          | 25.0 U          | 5.00 U            | 399               | 3.00 U          | 32,100          |           |
| X-4AR             | 3.3 - 8.3   | 05/21/00             | 134             | 5.00 U          | 10.0 U            | 73.3 B            | 4.00 U          | 1.00 U          | 159,000         | 5.00 U          | 10.0 U          | 25.0 U          | --                | 193 U             | 3.00 U          | 29,000          |           |
| X-4AR             | 3.3 - 8.3   | 06/03/04             | --              | --              | --                | --                | --              | --              | --              | --              | --              | --              | --                | --                | --              | --              | --        |
| X-4CAUG           | 18 - 23     | 07/24/95             | --              | --              | --                | --                | --              | --              | --              | --              | --              | --              | 5.00 U            | --                | --              | --              | --        |
| X-4CAUG           | 18 - 23     | 06/08/96             | --              | --              | --                | --                | --              | --              | --              | --              | --              | --              | --                | --                | --              | --              | --        |
| X-4CAUGR          | 14 - 19     | 01/09/08             | 200 U           | 2.00 U          | 5.00 U            | 114               | 1.00 U          | 1.00 U          | 93,300          | 5.00 U          | 7.00 U          | 2.00 U          | --                | 4,600             | 3.00 U          | 26,000          |           |
| X-4CAUGR          | 14 - 19     | 03/12/08             | 200 U           | 2.00 U          | 5.00 U            | 129               | 1.00 U          | 1.00 U          | 116,000         | 5.00 U          | 7.00 U          | 2.00 U          | --                | 5,060             | 3.00 U          | 31,300          |           |
| X-4CAUGR          | 14 - 19     | 09/28/10             | --              | --              | 5.00 U            | 132 J             | --              | --              | --              | --              | --              | --              | --                | 4,930             | --              | --              | --        |
| X-4CAUGR          | 14 - 19     | 09/26/11             | --              | --              | 0.740             | 140               | --              | --              | --              | --              | --              | --              | --                | 5,400             | --              | --              | --        |
| X-4CAUGR          | 14 - 19     | 09/14/12             | --              | --              | 0.42 J            | 120 B             | --              | --              | --              | --              | --              | --              | --                | 4,500             | --              | --              | --        |
| X-4CAUGR          | 14 - 19     | 09/24/13             | --              | --              | 1.9 B             | 89                | --              | --              | --              | --              | --              | --              | --                | 6,700             | --              | --              | --        |
| X-4CAUGR          | 14 - 19     | 09/23/14             | --              | --              | 2.3 B             | 130 B             | --              | --              | --              | --              | --              | --              | --                | 9,100 B           | --              | --              | --        |
| X-4CAUGR          | 14 - 19     | 09/30/15             | --              | --              | 2.0               | 120               | --              | --              | --              | --              | --              | --              | 10 U              | 6,500             | --              | --              | --        |
| X-4CAUGR          | 14 - 19     | 09/28/16             | --              | --              | 1.3 J             | 100 B             | --              | --              | --              | --              | --              | --              | 0.010 U           | 4,900 B           | --              | --              | --        |

Table 2  
Analytical Data Summary Table - GPL Inorganics  
Saginaw, MI  
RACER Trust

| Sample ID:        | Sample Depth (feet): | Date Collected: | Inorganics    |                 |                 |            |                 |                 |                   |                 |                 |                  |                 |               |                 |                 |
|-------------------|----------------------|-----------------|---------------|-----------------|-----------------|------------|-----------------|-----------------|-------------------|-----------------|-----------------|------------------|-----------------|---------------|-----------------|-----------------|
|                   |                      |                 | Aluminum      | Antimony        | Arsenic         | Barium     | Beryllium       | Cadmium         | Calcium           | Chromium Total  | Cobalt          | Copper           | Cyanide (total) | Iron          | Lead            | Magnesium       |
| MDEQ GSI Criteria |                      |                 | NA            | 130 (X)         | 680*            | 1758.8 (G) | 65.36 (G)       | 5.9 (G,X)       | --                | 216 (G,X)       | 100             | 27.4 (G)         | 5.2             | --            | 57.4 (G,X)      | --              |
| X-4D              | 40 - 45              | 01/09/08        | 200 U         | 2.00 U          | 5.00 U          | 125        | 1.00 U          | 1.00 U          | 172,000           | 5.00 U          | 7.00 U          | 2.00 U           | --              | 2,250         | 3.00 U          | 75,000          |
| X-4D              | 40 - 45              | 04/01/08        | --            | --              | --              | --         | --              | --              | --                | --              | --              | --               | --              | --            | --              | --              |
| X-4D              | 40 - 45              | 04/03/08        | 200 U         | 2.00 U          | 5.00 U          | 110        | 1.00 U          | 1.00 U          | 168,000           | 5.00 U          | 7.00 U          | 2.00 U           | --              | 1,640         | 3.00 U          | 69,300          |
| X-4D              | 40 - 45              | 06/05/08        | --            | --              | --              | --         | --              | --              | --                | --              | --              | --               | --              | --            | --              | --              |
| X-4D              | 40 - 45              | 09/28/10        | --            | --              | 5.0 U           | 99.7 BJ    | --              | --              | --                | --              | --              | --               | --              | 1,030         | --              | --              |
| X-4D              | 40 - 45              | 09/26/11        | --            | --              | 1.10            | 100        | --              | --              | --                | --              | --              | --               | --              | 1,400         | --              | --              |
| X-4D              | 40 - 45              | 09/14/12        | --            | --              | 1.1             | 86 B       | --              | --              | --                | --              | --              | --               | --              | 980           | --              | --              |
| X-4D              | 40 - 45              | 09/24/13        | --            | --              | 0.91 J,B        | 92         | --              | --              | --                | --              | --              | --               | --              | 1,300         | --              | --              |
| X-4D              | 40 - 45              | 09/23/14        | --            | --              | 0.49 J,B        | 58 B       | --              | --              | --                | --              | --              | --               | --              | 290 J,B       | --              | --              |
| X-4D              | 40 - 45              | 09/30/15        | --            | --              | 1.2 J           | 87         | --              | --              | --                | --              | --              | --               | 10 U            | 1,000         | --              | --              |
| X-4D              | 40 - 45              | 09/28/16        | --            | --              | 0.85 J          | 93 B       | --              | --              | --                | --              | --              | --               | 0.010 U         | 1,200 B       | --              | --              |
| X-9AR             | 3 - 13               | 07/24/95        | 797           | 5.00 U          | 1.60            | 200 U      | 5.00 U          | 0.200 UJ        | 164,000           | 50.0 U          | 50.0 U          | 25.0 U           | 5.00 U          | 11,100        | 3.00 U          | 42,600          |
| X-9AR             | 3 - 13               | 06/09/96        | 430 U         | 5.00 U          | 5.00 U          | 200 U      | 5.00 U          | 0.500 UJ        | 146,000           | 50.0 U          | 50.0 U          | 25.0 U           | 5.00 U          | 2,900         | 3.00 U          | 37,200          |
| X-9AR             | 3 - 13               | 12/15/06        | 200 U         | 2.00 U          | 5.00 U          | 94.0 J     | 1.00 U          | 1.00 U          | 168,000           | 5.00 U          | 7.00 U          | 1.80 J           | --              | 1,090         | 3.00 U          | 43,400          |
| X-9AR             | 3 - 13               | 01/10/08        | 200 U         | 2.00 U          | 5.00 U          | 108        | 1.00 U          | 1.00 U          | 164,000           | 5.00 U          | 7.00 U          | 2.00 U           | --              | 5,510         | 3.00 U          | 45,300          |
| X-9AR             | 3 - 13               | 03/11/08        | 200 U         | 2.00 U          | 5.00 U          | 51.8 J     | 1.00 U          | 1.00 U          | 139,000           | 5.00 U          | 7.00 U          | 2.00 U           | --              | 100 U         | 3.00 U          | 36,800          |
| X-9AR             | 3 - 13               | 06/05/08        | --            | --              | --              | --         | --              | --              | --                | --              | --              | --               | --              | --            | --              | --              |
| X-9AR             | 3 - 13               | 09/29/10        | --            | --              | 5.00 U          | 113 J      | --              | --              | --                | --              | --              | --               | --              | 6,320         | --              | --              |
| X-9AR             | 3 - 13               | 09/23/11        | --            | --              | 0.40            | 200        | --              | --              | --                | --              | --              | --               | --              | 6,600         | --              | --              |
| X-9AR             | 3 - 13               | 09/12/12        | --            | --              | 0.43 J          | 190        | --              | --              | --                | --              | --              | --               | --              | 5,400         | --              | --              |
| X-9AR             | 3 - 13               | 09/25/13        | --            | --              | 6               | 220 B      | --              | --              | --                | --              | --              | --               | --              | 10,000 B      | --              | --              |
| X-9AR             | 3 - 13               | 09/22/14        | --            | --              | 1.2 J           | 160 B      | --              | --              | --                | --              | --              | --               | --              | 8,800         | --              | --              |
| X-9AR             | 3 - 13               | 10/01/15        | --            | --              | 0.63 J          | 91         | --              | --              | --                | --              | --              | --               | 10 U            | 5,000         | --              | --              |
| X-9AR             | 3 - 13               | 09/28/16        | --            | --              | 0.50 *J         | 100        | --              | --              | --                | --              | --              | --               | < 0.010 U       | 5,600         | --              | --              |
| X-9BR             | 26 - 31              | 07/24/95        | --            | --              | --              | --         | --              | --              | --                | --              | --              | --               | 5.00 U          | --            | --              | --              |
| X-9BR             | 26 - 31              | 06/08/96        | --            | --              | --              | --         | --              | --              | --                | --              | --              | --               | --              | --            | --              | --              |
| X-9BR             | 26 - 31              | 12/15/06        | 200 U [200 U] | 2.00 U [2.00 U] | 5.00 U [5.00 U] | 143 [148]  | 1.00 U [1.00 U] | 1.00 U [1.00 U] | 117,000 [121,000] | 5.00 U [5.00 U] | 7.00 U [7.00 U] | 2.00 U [0.580 J] | --              | 3,070 [3,120] | 3.00 U [3.00 U] | 36,400 [37,600] |
| X-9BR             | 26 - 31              | 01/08/08        | 200 U         | 2.00 U          | 5.00 U          | 155        | 1.00 U          | 1.00 U          | 121,000           | 5.00 U          | 7.00 U          | 2.00 U           | --              | 4,160         | 3.00 U          | 37,600          |
| X-9BR             | 26 - 31              | 03/11/08        | 200 U         | 2.00 U          | 5.00 U          | 147        | 1.00 U          | 1.00 U          | 134,000           | 5.00 U          | 7.00 U          | 2.00 U           | --              | 2,590         | 3.00 U          | 41,500          |
| X-9BR             | 26 - 31              | 09/28/10        | --            | --              | 5.00 U          | 175 J      | --              | --              | --                | --              | --              | --               | --              | 3,970         | --              | --              |
| X-9BR             | 26 - 31              | 09/23/11        | --            | --              | 0.650           | 180        | --              | --              | --                | --              | --              | --               | --              | 3,700         | --              | --              |
| X-9BR             | 26 - 31              | 09/12/12        | --            | --              | 0.940 J         | 170        | --              | --              | --                | --              | --              | --               | --              | 5,100         | --              | --              |
| X-9BR             | 26 - 31              | 09/25/13        | --            | --              | 6.2             | 130 B      | --              | --              | --                | --              | --              | --               | --              | 9,200 B       | --              | --              |
| X-9BR             | 26 - 31              | 09/22/14        | --            | --              | 2.0             | 170 B      | --              | --              | --                | --              | --              | --               | --              | 10,000        | --              | --              |
| X-9BR             | 26 - 31              | 10/01/15        | --            | --              | 1.6 J           | 160        | --              | --              | --                | --              | --              | --               | 10 U            | 8,700         | --              | --              |
| X-9BR             | 26 - 31              | 09/28/16        | --            | --              | 1.7 *J          | 150        | --              | --              | --                | --              | --              | --               | < 0.010 U       | 7,500         | --              | --              |
| X-9CAUG           | 20 - 25              | 07/24/95        | --            | --              | --              | --         | --              | --              | --                | --              | --              | --               | 5.00 U          | --            | --              | --              |
| X-9CAUG           | 20 - 25              | 06/08/96        | --            | --              | --              | --         | --              | --              | --                | --              | --              | --               | --              | --            | --              | --              |
| X-9CAUG           | 20 - 25              | 12/15/06        | 200 U         | 2.00 U          | 5.00 U          | 176        | 1.00 U          | 1.00 U          | 126,000           | 5.00 U          | 7.00 U          | 2.00 U           | --              | 6,920         | 3.00 U          | 38,700          |
| X-9CAUG           | 20 - 25              | 01/08/08        | 200 U         | 2.00 U          | 5.00 U          | 381        | 1.00 U          | 1.00 U          | 120,000           | 5.00 U          | 7.00 U          | 2.00 U           | --              | 2,980         | 3.00 U          | 40,400          |
| X-9CAUG           | 20 - 25              | 03/11/08        | 200 U         | 2.00 U          | 5.00 U          | 167        | 1.00 U          | 1.00 U          | 127,000           | 5.00 U          | 7.00 U          | 2.00 U           | --              | 6,410         | 3.00 U          | 38,600          |
| X-9CAUG           | 20 - 25              | 09/28/10        | --            | --              | 5.00 U          | 193 J      | --              | --              | --                | --              | --              | --               | --              | 5,420         | --              | --              |
| X-9CAUG           | 20 - 25              | 09/23/11        | --            | --              | 1.50            | 110        | --              | --              | --                | --              | --              | --               | --              | 6,000         | --              | --              |
| X-9CAUG           | 20 - 25              | 09/12/12        | --            | --              | 1.9 J           | 110 B      | --              | --              | --                | --              | --              | --               | --              | 4,700         | --              | --              |
| X-9CAUG           | 20 - 25              | 09/25/13        | --            | --              | 1.8 J           | 89 B       | --              | --              | --                | --              | --              | --               | --              | 4,500 B       | --              | --              |
| X-9CAUG           | 20 - 25              | 09/22/14        | --            | --              | 1.1 J,B         | 84 B       | --              | --              | --                | --              | --              | --               | --              | 5,700 B       | --              | --              |
| X-9CAUG           | 20 - 25              | 09/30/15        | --            | --              | 1.3 J           | 210        | --              | --              | --                | --              | --              | --               | --              | 9,800         | --              | --              |
| X-9CAUG           | 20 - 25              | 09/28/16        | --            | --              | 0.97 *J         | 260        | --              | --              | --                | --              | --              | --               | < 0.010 U       | 8,400         | --              | --              |
| X-9D              | 42.5 - 47.5          | 01/08/08        | 200 U         | 2.00 U          | 5.00 U          | 94.2 J     | 1.00 U          | 1.00 U          | 200,000           | 5.00 U          | 7.00 U          | 2.00 U           | --              | 3,640         | 3.00 U          | 81,100          |
| X-9D              | 42.5 - 47.5          | 03/11/08        | 200 U         | 2.00 U          | 5.00 U          | 80.7 J     | 1.00 U          | 1.00 U          | 181,000           | 5.00 U          | 7.00 U          | 2.00 U           | --              | 3,150         | 3.00 U          | 72,200          |
| X-9D              | 42.5 - 47.5          | 03/12/08        | --            | --              | --              | --         | --              | --              | --                | --              | --              | --               | --              | --            | --              | --              |
| X-9D              | 42.5 - 47.5          | 06/05/08        | --            | --              | --              | --         | --              | --              | --                | --              | --              | --               | --              | --            | --              | --              |
| X-9D              | 42.5 - 47.5          | 09/28/10        | --            | --              | 5.00 U          | 93.0 BJ    | --              | --              | --                | --              | --              | --               | --              | 2,930         | --              | --              |
| X-9D              | 42.5 - 47.5          | 09/23/11        | --            | --              | 0.640           | 100        | --              | --              | --                | --              | --              | --               | --              | 3,100         | --              | --              |
| X-9D              | 42.5 - 47.5          | 09/12/12        | --            | --              | 0.67 J          | 84 B       | --              | --              | --                | --              | --              | --               | --              | 2,500         | --              | --              |
| X-9D              | 42.5 - 47.5          | 09/25/13        | --            | --              | 21              | 140 B      | --              | --              | --                | --              | --              | --               | --              | 3,100 B       | --              | --              |
| X-9D              | 42.5 - 47.5          | 09/22/14        | --            | --              | 15              | 110 B      | --              | --              | --                | --              | --              | --               | --              | 3,000         | --              | --              |
| X-9D              | 42.5 - 47.5          | 09/30/15        | --            | --              | 9.5             | 100        | --              | --              | --                | --              | --              | --               | 10 U            | 2,800         | --              | --              |
| X-9D              | 42.5 - 47.5          | 09/28/16        | --            | --              | 3.8             | 94         | --              | --              | --                | --              | --              | --               | < 0.010 U       | 1,500         | --              | --              |

Table 2  
Analytical Data Summary Table - GPL Inorganics  
Saginaw, MI  
RACER Trust

| Sample ID:        | Sample Depth (feet): | Date Collected: | Inorganics    |          |           |           |          |               |        |          |          |           | Inorganics-Dissolved |                      |                     |
|-------------------|----------------------|-----------------|---------------|----------|-----------|-----------|----------|---------------|--------|----------|----------|-----------|----------------------|----------------------|---------------------|
|                   |                      |                 | Manganese     | Mercury  | Nickel    | Potassium | Selenium | Silver        | Sodium | Thallium | Vanadium | Zinc      | Aluminum (Dissolved) | Antimony (Dissolved) | Arsenic (Dissolved) |
| MDEQ GSI Criteria |                      |                 | 6,203.8 (G,X) | 0.0013   | 157.3 (G) | --        | 5        | 0.2 (M); 0.06 | --     | 3.7 (X)  | 27       | 358.0 (G) | --                   | 130 (X)              | 680*                |
| MW-117S1          | 24.2 - 29.2          | 06/20/95        | --            | --       | --        | --        | --       | --            | --     | --       | --       | --        | 117                  | 5 U                  | 1.2                 |
| MW-117S1          | 24.2 - 29.2          | 07/14/95        | --            | --       | --        | --        | --       | --            | --     | --       | --       | --        | --                   | --                   | --                  |
| MW-117S1          | 24.2 - 29.2          | 06/11/96        | --            | --       | --        | --        | --       | --            | --     | --       | --       | --        | 120                  | 5 U                  | --                  |
| MW-117S1          | 24.2 - 29.2          | 05/19/00        | --            | --       | --        | --        | --       | --            | --     | --       | --       | --        | 100 U                | 5 U                  | 10 U                |
| MW-117S1          | 24.2 - 29.2          | 06/19/01        | --            | 0.200 UJ | --        | --        | --       | --            | --     | --       | --       | --        | 100 U                | 5 U                  | 10 U                |
| MW-117S1          | 24.2 - 29.2          | 06/26/02        | --            | --       | --        | --        | --       | --            | --     | --       | --       | --        | 100 U                | 5 U                  | 10 U                |
| MW-117S1          | 24.2 - 29.2          | 06/19/03        | --            | --       | --        | --        | --       | --            | --     | --       | --       | --        | 100 U                | 5 U                  | 10 U                |
| MW-117S1          | 24.2 - 29.2          | 05/27/04        | --            | --       | --        | --        | --       | --            | --     | --       | --       | --        | 100 U                | 5 U                  | 10 U                |
| MW-117S1          | 24.2 - 29.2          | 06/23/05        | --            | --       | --        | --        | --       | --            | --     | --       | --       | --        | 200 U                | 2 U                  | 2.7                 |
| MW-117S1          | 24.2 - 29.2          | 12/13/06        | --            | --       | --        | --        | --       | --            | --     | --       | --       | --        | 200 U                | 2 U                  | 5 U                 |
| MW-117S1          | 24.2 - 29.2          | 12/07/07        | --            | --       | --        | --        | --       | --            | --     | --       | --       | --        | 200 U                | 2 U                  | 5 U                 |
| MW-117S1          | 24.2 - 29.2          | 03/14/08        | --            | --       | --        | --        | --       | --            | --     | --       | --       | --        | 200 U                | 2 U                  | 3.9 J               |
| MW-117S1          | 24.2 - 29.2          | 10/01/10        | --            | --       | --        | --        | --       | --            | --     | --       | --       | --        | --                   | --                   | 0.005 U             |
| MW-117S1          | 24.2 - 29.2          | 09/27/11        | --            | --       | --        | --        | --       | --            | --     | --       | --       | --        | --                   | --                   | 0.0016              |
| MW-117S1          | 24.2 - 29.2          | 09/13/12        | --            | --       | --        | --        | --       | --            | --     | --       | --       | --        | --                   | --                   | 0.0016 J            |
| MW-117S1          | 24.2 - 29.2          | 09/24/13        | --            | --       | --        | --        | --       | --            | --     | --       | --       | --        | --                   | --                   | 0.0043 B            |
| MW-117S1          | 24.2 - 29.2          | 09/22/14        | --            | --       | --        | --        | --       | --            | --     | --       | --       | --        | --                   | --                   | 0.0046 B            |
| MW-117S1          | 24.2 - 29.2          | 09/30/15        | --            | --       | --        | --        | --       | --            | --     | --       | --       | --        | --                   | --                   |                     |
| MW-117S1          | 24.2 - 29.2          | 09/27/16        | --            | --       | --        | --        | --       | --            | --     | --       | --       | --        | --                   | --                   | 1.9 J               |
| MW-117WT          | 3 - 13               | 06/20/95        | --            | --       | --        | --        | --       | --            | --     | --       | --       | --        | 350                  | 5 U                  | 1.3                 |
| MW-117WT          | 3 - 13               | 07/14/95        | --            | --       | --        | --        | --       | --            | --     | --       | --       | --        | --                   | --                   | --                  |
| MW-117WT          | 3 - 13               | 06/11/96        | --            | --       | --        | --        | --       | --            | --     | --       | --       | --        | 100 U                | 5 U                  | --                  |
| MW-117WT          | 3 - 13               | 05/19/00        | --            | --       | --        | --        | --       | --            | --     | --       | --       | --        | 100 U                | 5 U                  | 10 U                |
| MW-117WT          | 3 - 13               | 06/18/01        | --            | 0.200 UJ | --        | --        | --       | --            | --     | --       | --       | --        | 100 U                | 5 U                  | 10 U                |
| MW-117WT          | 3 - 13               | 06/26/02        | --            | --       | --        | --        | --       | --            | --     | --       | --       | --        | 100 U                | 5 U                  | 2.2 B               |
| MW-117WT          | 3 - 13               | 06/19/03        | --            | --       | --        | --        | --       | --            | --     | --       | --       | --        | 100 U                | 5 U                  | 10 U                |
| MW-117WT          | 3 - 13               | 12/09/04        | --            | --       | --        | --        | --       | --            | --     | --       | --       | --        | --                   | 2 U [2 U]            | 4.1 [4.6 J]         |
| MW-117WT          | 3 - 13               | 06/23/05        | --            | --       | --        | --        | --       | --            | --     | --       | --       | --        | 200 U                | 0.29 B               | 4.5                 |
| MW-117WT          | 3 - 13               | 12/13/06        | --            | --       | --        | --        | --       | --            | --     | --       | --       | --        | 200 U                | 2 U                  | 5 U                 |
| MW-117WT          | 3 - 13               | 12/07/07        | --            | --       | --        | --        | --       | --            | --     | --       | --       | --        | 200 U                | 2 U                  | 5 U                 |
| MW-117WT          | 3 - 13               | 03/14/08        | --            | --       | --        | --        | --       | --            | --     | --       | --       | --        | 200 U                | 2 U                  | 5 U                 |
| MW-117WT          | 3 - 13               | 10/01/10        | --            | --       | --        | --        | --       | --            | --     | --       | --       | --        | --                   | --                   | 5 U                 |
| MW-117WT          | 3 - 13               | 09/27/11        | --            | --       | --        | --        | --       | --            | --     | --       | --       | --        | --                   | --                   | 2.5                 |
| MW-117WT          | 3 - 13               | 09/13/12        | --            | --       | --        | --        | --       | --            | --     | --       | --       | --        | --                   | --                   | 3.7                 |
| MW-117WT          | 3 - 13               | 09/24/13        | --            | --       | --        | --        | --       | --            | --     | --       | --       | --        | --                   | --                   | 4.8 B               |
| MW-117WT          | 3 - 13               | 09/23/14        | --            | --       | --        | --        | --       | --            | --     | --       | --       | --        | --                   | --                   | 1.4 J,B             |
| MW-117WT          | 3 - 13               | 09/30/15        | --            | --       | --        | --        | --       | --            | --     | --       | --       | --        | --                   | --                   | 3.0                 |
| MW-117WT          | 3 - 13               | 09/27/16        | --            | --       | --        | --        | --       | --            | --     | --       | --       | --        | --                   | --                   | 1.6 J               |
| MW-117WT          | 3 - 13               | 10/13/16        | --            | --       | --        | --        | --       | --            | --     | --       | --       | --        | --                   | --                   | --                  |
| MW-118S1          | 23.5 - 28.5          | 06/20/95        | --            | --       | --        | --        | --       | --            | --     | --       | --       | --        | 219                  | 5 U                  | 1.8                 |
| MW-118S1          | 23.5 - 28.5          | 07/14/95        | --            | --       | --        | --        | --       | --            | --     | --       | --       | --        | --                   | --                   | --                  |
| MW-118S1          | 23.5 - 28.5          | 06/11/96        | 372           | --       | --        | --        | --       | --            | --     | --       | --       | --        | 100 U                | 5 U                  | --                  |
| MW-118S1          | 23.5 - 28.5          | 05/17/00        | --            | --       | --        | --        | --       | --            | --     | --       | --       | --        | 100 U [100 U]        | 5 U [5 U]            | 10 U [10 U]         |
| MW-118S1          | 23.5 - 28.5          | 06/19/01        | --            | 0.200 UJ | --        | --        | --       | --            | --     | --       | --       | --        | 100 U                | 5 U                  | 10 U                |
| MW-118S1          | 23.5 - 28.5          | 06/27/02        | --            | --       | --        | --        | --       | --            | --     | --       | --       | --        | 100 U                | 5 U                  | 10 U                |
| MW-118S1          | 23.5 - 28.5          | 06/19/03        | --            | --       | --        | --        | --       | --            | --     | --       | --       | --        | 100 U                | 5 U                  | 10 U                |
| MW-118S1          | 23.5 - 28.5          | 12/09/04        | --            | --       | --        | --        | --       | --            | --     | --       | --       | --        | --                   | 2 U                  | 2.3 J               |
| MW-118S1          | 23.5 - 28.5          | 06/23/05        | --            | --       | --        | --        | --       | --            | --     | --       | --       | --        | 200 U                | 2 U                  | 1.9 B               |
| MW-118S1          | 23.5 - 28.5          | 12/14/06        | --            | --       | --        | --        | --       | --            | --     | --       | --       | --        | 200 U                | 2 U                  | 5 U                 |
| MW-118S1          | 23.5 - 28.5          | 12/07/07        | --            | --       | --        | --        | --       | --            | --     | --       | --       | --        | 200 U                | 2 U                  | 5 U                 |
| MW-118S1          | 23.5 - 28.5          | 04/01/08        | --            | --       | --        | --        | --       | --            | --     | --       | --       | --        | 200 U                | 2 U                  | 5 U                 |
| MW-118S1          | 23.5 - 28.5          | 10/01/10        | --            | --       | --        | --        | --       | --            | --     | --       | --       | --        | --                   | --                   | 5 U                 |
| MW-118S1          | 23.5 - 28.5          | 09/27/11        | --            | --       | --        | --        | --       | --            | --     | --       | --       | --        | --                   | --                   | 0.58                |
| MW-118S1          | 23.5 - 28.5          | 09/13/12        | --            | --       | --        | --        | --       | --            | --     | --       | --       | --        | --                   | --                   | 0.74                |
| MW-118S1          | 23.5 - 28.5          | 09/24/13        | --            | --       | --        | --        | --       | --            | --     | --       | --       | --        | --                   | --                   | 18 B                |
| MW-118S1          | 23.5 - 28.5          | 09/22/14        | --            | --       | --        | --        | --       | --            | --     | --       | --       | --        | --                   | --                   | 0.86 J              |
| MW-118S1          | 23.5 - 28.5          | 09/30/15        | --            | --       | --        | --        | --       | --            | --     | --       | --       | --        | --                   | --                   | 1.6 J               |
| MW-118S1          | 23.5 - 28.5          | 09/27/16        | --            | --       | --        | --        | --       | --            | --     | --       | --       | --        | --                   | --                   | 1.9 J               |

Table 2  
Analytical Data Summary Table - GPL Inorganics  
Saginaw, MI  
RACER Trust

| Sample ID:        | Sample Depth (feet): | Date Collected: | Inorganics    |                     |                 |               |                     |                   |                 |                 |                 |                 | Inorganics-Dissolved |                      |                     |
|-------------------|----------------------|-----------------|---------------|---------------------|-----------------|---------------|---------------------|-------------------|-----------------|-----------------|-----------------|-----------------|----------------------|----------------------|---------------------|
|                   |                      |                 | Manganese     | Mercury             | Nickel          | Potassium     | Selenium            | Silver            | Sodium          | Thallium        | Vanadium        | Zinc            | Aluminum (Dissolved) | Antimony (Dissolved) | Arsenic (Dissolved) |
| MDEQ GSI Criteria |                      |                 | 6,203.8 (G,X) | 0.0013              | 157.3 (G)       | --            | 5                   | 0.2 (M); 0.06     | --              | 3.7 (X)         | 27              | 358.0 (G)       | --                   | 130 (X)              | 680*                |
| MW-118WT          | 1.6 - 11.6           | 06/20/95        | --            | --                  | --              | --            | --                  | --                | --              | --              | --              | --              | 563                  | 5 U                  | 1                   |
| MW-118WT          | 1.6 - 11.6           | 07/14/95        | --            | --                  | --              | --            | --                  | --                | --              | --              | --              | --              | --                   | --                   | --                  |
| MW-118WT          | 1.6 - 11.6           | 06/11/96        | 4,990         | --                  | --              | --            | --                  | --                | --              | --              | --              | --              | 100 U                | 5 U                  | --                  |
| MW-118WT          | 1.6 - 11.6           | 05/17/00        | --            | --                  | --              | --            | --                  | --                | --              | --              | --              | --              | 100 U                | 5 U                  | 10 U                |
| MW-118WT          | 1.6 - 11.6           | 06/19/01        | --            | 0.200 UJ [0.200 UJ] | --              | --            | --                  | --                | --              | --              | --              | --              | 100 U [100 U]        | 5 U [5 U]            | 5.1 B [7.4 B]       |
| MW-118WT          | 1.6 - 11.6           | 06/27/02        | --            |                     | --              | --            | --                  | --                | --              | --              | --              | --              | 100 U [100 U]        | 5 U [5 U]            | 3.9 B [7.9 B]       |
| MW-118WT          | 1.6 - 11.6           | 06/19/03        | --            |                     | --              | --            | --                  | --                | --              | --              | --              | --              | 100 U [100 U]        | 5 U [5 U]            | 10 U [10 U]         |
| MW-118WT          | 1.6 - 11.6           | 05/27/04        | --            |                     | --              | --            | --                  | --                | --              | --              | --              | --              | 100 U                | 5 U                  | 3.2                 |
| MW-118WT          | 1.6 - 11.6           | 06/23/05        | --            | --                  | --              | --            | --                  | --                | --              | --              | --              | --              | 200 U                | 0.17 B               | 3.4                 |
| MW-118WT          | 1.6 - 11.6           | 12/14/06        | --            | --                  | --              | --            | --                  | --                | --              | --              | --              | --              | 200 U                | 2 U                  | 5 U                 |
| MW-118WT          | 1.6 - 11.6           | 12/07/07        | --            | --                  | --              | --            | --                  | --                | --              | --              | --              | --              | 200 U                | 2 U                  | 5 U                 |
| MW-118WT          | 1.6 - 11.6           | 04/01/08        | --            | --                  | --              | --            | --                  | --                | --              | --              | --              | --              | 200 U                | 2 U                  | 5 U                 |
| MW-118WT          | 1.6 - 11.6           | 09/30/10        | --            | --                  | --              | --            | --                  | --                | --              | --              | --              | --              | --                   | --                   | 5 U                 |
| MW-118WT          | 1.6 - 11.6           | 09/27/11        | --            | --                  | --              | --            | --                  | --                | --              | --              | --              | --              | --                   | --                   | 1.1                 |
| MW-118WT          | 1.6 - 11.6           | 09/13/12        | --            | --                  | --              | --            | --                  | --                | --              | --              | --              | --              | --                   | --                   | 0.80 J              |
| MW-118WT          | 1.6 - 11.6           | 09/24/13        | --            | --                  | --              | --            | --                  | --                | --              | --              | --              | --              | --                   | --                   | 0.72 J,B            |
| MW-118WT          | 1.6 - 11.6           | 09/22/14        | --            | --                  | --              | --            | --                  | --                | --              | --              | --              | --              | --                   | --                   | 0.37 J,B            |
| MW-118WT          | 1.6 - 11.6           | 09/30/15        | --            | --                  | --              | --            | --                  | --                | --              | --              | --              | --              | --                   | --                   | 0.85 J              |
| MW-118WT          | 1.6 - 11.6           | 09/27/16        | --            | --                  | --              | --            | --                  | --                | --              | --              | --              | --              | --                   | --                   | 1.0 J               |
| MW-183WT          | 6 - 16               | 12/06/07        | --            | --                  | --              | --            | --                  | --                | --              | --              | --              | --              | --                   | --                   | --                  |
| MW-183WT          | 6 - 16               | 01/09/08        | 514 [429 J]   | 0.200 U [0.200 U]   | 20.0 U [20.0 U] | 556 J [489 J] | 5.00 U [5.00 U]     | 0.200 U [0.200 U] | 97,200 [99,800] | 1.00 U [1.00 U] | 4.00 U [4.00 U] | 20.0 U [20.0 U] | 200 U [200 U]        | 2 U [2 U]            | 5 U [5 U]           |
| MW-183WT          | 6 - 16               | 03/12/08        | 611           | 0.200 U             | 20.0 U          | 1,000 U       | 5.00 U              | 0.200 U           | 99,000          | 1.00 U          | 4.00 U          | 5.60 J          | 200 U                | 2 U                  | 3.3 J               |
| MW-183WT          | 6 - 16               | 09/28/10        | 252 [248]     | 0.200 U [0.200 U]   | --              | --            | 5.0 U [5.0 U]       | --                | --              | --              | --              | --              | --                   | --                   | 5.0 U [5.0 U)]      |
| MW-183WT          | 6 - 16               | 09/28/11        | 240 [260]     | 0.200 U [0.200 U]   | --              | --            | 5.0 U [5.0 U]       | --                | --              | --              | --              | --              | --                   | --                   | 2.0                 |
| MW-183WT          | 6 - 16               | 09/14/12        | 400 B [440 B] | 0.200 U [0.200 U]   | --              | --            | 5.0 U [5.0 U]       | --                | --              | --              | --              | --              | --                   | --                   | 1.4 J               |
| MW-183WT          | 6 - 16               | 09/24/13        | 500 B [490 B] | 0.200 U [0.200 U]   | --              | --            | 5.0 U [5.0 U]       | --                | --              | --              | --              | --              | --                   | --                   | 3.2 B               |
| MW-183WT          | 6 - 16               | 09/23/14        | 460 [540]     | 0.200 U [0.200 U]   | --              | --            | 0.32 J,B [0.27 J,B] | --                | --              | --              | --              | --              | --                   | --                   | 1.9 J,B [1.9 J,B]   |
| MW-183WT          | 6 - 16               | 10/01/15        | 350 [330]     | --                  | --              | --            | 0.69 J,B [0.55 J,B] | --                | --              | --              | --              | --              | --                   | --                   | 1.7 J               |
| MW-183WT          | 6 - 16               | 09/28/16        | 1,100 B       | --                  | --              | --            | 0.82 J              | --                | 49,000          | --              | --              | --              | --                   | --                   | 4.1                 |
| TWW-1             | 1.5 - 6.5            | 01/25/97        | --            | --                  | --              | --            | --                  | --                | --              | --              | --              | --              | 100 U                | 5 U                  | 5 U                 |
| TWW-1             | 1.5 - 6.5            | 05/21/00        | 1,580         | 0.200 U             | 40.0 U          | 2,020 BJ      | 5.00 U              | 5.00 U            | 839,000         | 7.60 B          | 20.0 U          | 20.0 U          | 100 U                | 2.1 B                | 10 U                |
| TWW-1             | 1.5 - 6.5            | 05/29/08        | --            | --                  | --              | --            | --                  | --                | --              | --              | --              | --              | --                   | --                   | --                  |
| TWW-1             | 1.5 - 6.5            | 09/27/16        | --            | --                  | --              | --            | --                  | --                | --              | --              | --              | --              | --                   | --                   | --                  |
| TWW-1             | 1.5 - 6.5            | 09/27/16        | --            | --                  | --              | --            | --                  | --                | --              | --              | --              | --              | --                   | --                   | --                  |
| X-10BR            | 26.3 - 31.3          | 07/24/95        | --            | --                  | --              | --            | --                  | --                | --              | --              | --              | --              | 103                  | 5 U                  | 32                  |
| X-10BR            | 26.3 - 31.3          | 12/15/06        | --            | --                  | --              | --            | --                  | --                | --              | --              | --              | --              | 200 U                | 2 U                  | 27.6                |
| X-10BR            | 26.3 - 31.3          | 12/04/07        | --            | --                  | --              | --            | --                  | --                | --              | --              | --              | --              | 200 U                | 2 U                  | 29.5                |
| X-10BR            | 26.3 - 31.3          | 03/12/08        | --            | --                  | --              | --            | --                  | --                | --              | --              | --              | --              | 200 U                | 2 U                  | 33                  |
| X-10BR            | 26.3 - 31.3          | 09/29/10        | --            | --                  | --              | --            | --                  | --                | --              | --              | --              | --              | --                   | --                   | 28.5                |
| X-10BR            | 26.3 - 31.3          | 09/22/11        | --            | --                  | --              | --            | --                  | --                | --              | --              | --              | --              | --                   | --                   | 30                  |
| X-10BR            | 26.3 - 31.3          | 09/14/12        | --            | --                  | --              | --            | --                  | --                | --              | --              | --              | --              | --                   | --                   | 27                  |
| X-10BR            | 26.3 - 31.3          | 09/24/13        | --            | --                  | --              | --            | --                  | --                | --              | --              | --              | --              | --                   | --                   | 28 B                |
| X-4AR             | 3.3 - 8.3            | 07/24/95        | 1,500         | 0.200 UJ            | 53.0            | 7,510         | 5.00 U              | 0.500 UJ          | 20,700          | 2.00 UJ         | 83.2            | 4,170           | 113                  | 5 U                  | 1.2                 |
| X-4AR             | 3.3 - 8.3            | 06/09/96        | 41.9          | 0.200 U             | 50.0 U          | 5,000 U       | 5.00 U              | 0.500 U           | 21,900          | 2.00 UJ         | 20.0 U          | 67.7 U          | 151 U                | 5 U                  | 5 U                 |
| X-4AR             | 3.3 - 8.3            | 05/21/00        | 15.0 U        | 0.200 U             | 40.0 U          | 1,800 BJ      | 5.00 U              | 5.00 U            | 20,700          | 7.30 B          | 20.0 U          | 20.0 U          | 100 U                | 5 U                  | 10 U                |
| X-4AR             | 3.3 - 8.3            | 06/03/04        | --            | --                  | --              | --            | --                  | --                | --              | 1.00 U          | --              | --              | --                   | --                   | --                  |
| X-4CAUG           | 18 - 23              | 07/24/95        | --            | --                  | --              | --            | --                  | --                | --              | --              | --              | --              | 103                  | 5 U                  | 1 UJ                |
| X-4CAUG           | 18 - 23              | 06/08/96        | --            | --                  | --              | --            | --                  | --                | --              | --              | --              | --              | 100 U                | 5 U                  | 5 U                 |
| X-4CAUGR          | 14 - 19              | 01/09/08        | 397           | 0.200 U             | 20.0 U          | 552 J         | 5.00 U              | 0.200 U           | 73,900          | 1.00 U          | 4.00 U          | 20.0 U          | 200 U                | 2 U                  | 5 U                 |
| X-4CAUGR          | 14 - 19              | 03/12/08        | 495           | 0.200 U             | 20.0 U          | 1,000 U       | 5.00 U              | 0.200 U           | 55,400          | 1.00 U          | 4.00 U          | 20.0 U          | 200 U                | 2 U                  | 5 U                 |
| X-4CAUGR          | 14 - 19              | 09/28/10        | 559           | 0.200 U             | --              | --            | 5.00 U              | --                | 54,000          | --              | --              | --              | --                   | --                   | 5 U                 |
| X-4CAUGR          | 14 - 19              | 09/26/11        | 620           | 0.200 U             | --              | --            | 5.00 U              | --                | 44,000          | --              | --              | --              | --                   | --                   | 0.45                |
| X-4CAUGR          | 14 - 19              | 09/14/12        | 560 B^        | 0.200 U             | --              | --            | 5.00 U              | --                | 53,000          | --              | --              | --              | --                   | --                   | 0.40 J              |
| X-4CAUGR          | 14 - 19              | 09/24/13        | 730           | 0.200 U, H          | --              | --            | 5.00 U              | --                | 22,000 B        | --              | --              | --              | --                   | --                   | 6.9 B               |
| X-4CAUGR          | 14 - 19              | 09/23/14        | 610           | 0.200 U             | --              | --            | 0.36 J,B            | --                | 59,000 B        | --              | --              | --              | --                   | --                   | 2.2 B               |
| X-4CAUGR          | 14 - 19              | 09/30/15        | 430           | --                  | --              | --            | 0.56 J              | --                | 64,000 B        | --              | --              | --              | --                   | --                   | 2.1                 |
| X-4CAUGR          | 14 - 19              | 09/28/16        | 380 B         | --                  | --              | --            | 0.92 J              | --                | 78,000          | --              | --              | --              | --                   | --                   | 1.1 J               |

Table 2  
Analytical Data Summary Table - GPL Inorganics  
Saginaw, MI  
RACER Trust

| Sample ID:        | Sample Depth (feet): | Date Collected: | Inorganics    |                   |                 |               |                 |                   |                   |                 |                 |                 | Inorganics-Dissolved |                      |                     |
|-------------------|----------------------|-----------------|---------------|-------------------|-----------------|---------------|-----------------|-------------------|-------------------|-----------------|-----------------|-----------------|----------------------|----------------------|---------------------|
|                   |                      |                 | Manganese     | Mercury           | Nickel          | Potassium     | Selenium        | Silver            | Sodium            | Thallium        | Vanadium        | Zinc            | Aluminum (Dissolved) | Antimony (Dissolved) | Arsenic (Dissolved) |
| MDEQ GSI Criteria |                      |                 | 6,203.8 (G,X) | 0.0013            | 157.3 (G)       | --            | 5               | 0.2 (M); 0.06     | --                | 3.7 (X)         | 27              | 358.0 (G)       | --                   | 130 (X)              | 680*                |
| X-4D              | 40 - 45              | 01/09/08        | 327           | 0.200 U           | 20.0 U          | 8,070         | 5.00 U          | 0.200 U           | 733,000           | 1.00 U          | 4.00 U          | 20.0 U          | 200 U                | 2 U                  | 5 U                 |
| X-4D              | 40 - 45              | 04/01/08        | --            | --                | --              | --            | --              | --                | --                | --              | --              | --              | 200 U [200 U]        | 2 U [2 U]            | 5 U [5 U]           |
| X-4D              | 40 - 45              | 04/03/08        | 263           | 0.200 U           | 20.0 U          | 7,710 J       | 5.00 U          | 0.200 U           | 701,000           | 1.00 U          | 4.00 U          | 20.0 U          | --                   | --                   | --                  |
| X-4D              | 40 - 45              | 06/05/08        | --            | --                | --              | --            | --              | --                | --                | --              | --              | --              | --                   | --                   | --                  |
| X-4D              | 40 - 45              | 09/28/10        | 265           | 0.200 U           | --              | --            | 5.00 U          | --                | 699,000           | --              | --              | --              | --                   | --                   | 5 U                 |
| X-4D              | 40 - 45              | 09/26/11        | 190           | 0.200 U           | --              | --            | 5.00 U          | --                | 720,000           | --              | --              | --              | --                   | --                   | .94                 |
| X-4D              | 40 - 45              | 09/14/12        | 180 B         | 0.200 U           | --              | --            | 5.00 U          | --                | 690,000           | --              | --              | --              | --                   | --                   | 0.89 J              |
| X-4D              | 40 - 45              | 09/24/13        | 160           | 0.200 U, H        | --              | --            | 5.00 U          | --                | 690,000           | --              | --              | --              | --                   | --                   | 0.79 J,B            |
| X-4D              | 40 - 45              | 09/23/14        | 340           | 0.200 U           | --              | --            | 0.42 J,B        | --                | 260,000 B         | --              | --              | --              | --                   | --                   | 0.53 J,B            |
| X-4D              | 40 - 45              | 09/30/15        | 160           | --                | --              | --            | 2.0 J,B         | --                | 660,000           | --              | --              | --              | --                   | --                   | 1.1 J               |
| X-4D              | 40 - 45              | 09/28/16        | 200 B         | --                | --              | --            | 5.0 U           | --                | 660,000           | --              | --              | --              | --                   | --                   | 0.97 J              |
| X-9AR             | 3 - 13               | 07/24/95        | 770           | 0.200 UJ          | 50.0 U          | 5,000 U       | 5.00 U          | 0.500 UJ          | 340,000           | 2.00 UJ         | 20.0 U          | 84.0            | 110                  | 5 U                  | 2.1                 |
| X-9AR             | 3 - 13               | 06/09/96        | 348           | 0.200 U           | 50.0 U          | 5,000 U       | 5.00 U          | 0.500 U           | 57,200            | 2.00 UJ         | 20.0 U          | 20.0 U          | 100 U                | 5 U                  | 5 U                 |
| X-9AR             | 3 - 13               | 12/15/06        | 157           | 0.200 U           | 20.0 U          | 1,000 U       | 5.00 U          | 0.200 U           | 55,000            | 1.00 U          | 4.00 U          | 20.0 U          | 200 U                | 2 U                  | 5 U                 |
| X-9AR             | 3 - 13               | 01/10/08        | 318           | 0.200 U           | 20.0 U          | 121 J         | 5.00 U          | 0.200 U           | 58,600            | 1.00 U          | 4.00 U          | 20.0 U          | 200 U                | 2 U                  | 5 U                 |
| X-9AR             | 3 - 13               | 03/11/08        | 6.80 J        | 0.130 J           | 20.0 U          | 1,000 U       | 8.20            | 0.200 U           | 34,300            | 1.00 U          | 4.00 U          | 20.0 U          | 200 U                | 2 U                  | 5 U                 |
| X-9AR             | 3 - 13               | 06/05/08        | --            | 0.200 U [0.200 U] | --              | --            | 4.60 B [5.00 U] | --                | --                | --              | --              | --              | --                   | --                   | --                  |
| X-9AR             | 3 - 13               | 09/29/10        | 380           | 0.200 U           | --              | --            | 5.00 U          | --                | 55,600            | --              | --              | --              | --                   | --                   | 5 U                 |
| X-9AR             | 3 - 13               | 09/23/11        | 770           | 0.150             | --              | --            | 5.00 U          | --                | 95,000            | --              | --              | --              | --                   | --                   | 2 U                 |
| X-9AR             | 3 - 13               | 09/12/12        | 790 B^        | 0.200 U           | --              | --            | 5.00 U          | --                | 120,000           | --              | --              | --              | --                   | --                   | 2 U                 |
| X-9AR             | 3 - 13               | 09/25/13        | 840 B         | 0.200 U           | --              | --            | 5.00 U          | --                | 120,000 B         | --              | --              | --              | --                   | --                   | 5.5                 |
| X-9AR             | 3 - 13               | 09/22/14        | 570           | --                | --              | --            | 5.00 U          | --                | 60,000 B          | --              | --              | --              | --                   | --                   | 1.3 J               |
| X-9AR             | 3 - 13               | 10/01/15        | 310           | --                | --              | --            | 0.55 J,B        | --                | 39,000 B          | --              | --              | --              | --                   | --                   | 2.0 U               |
| X-9AR             | 3 - 13               | 09/28/16        | 360           | --                | --              | --            | 0.62 J          | --                | 39,000            | --              | --              | --              | --                   | --                   | 0.61 *J             |
| X-9BR             | 26 - 31              | 07/24/95        | --            | --                | --              | --            | --              | --                | --                | --              | --              | --              | 100 U                | 5 U                  | 1 UJ                |
| X-9BR             | 26 - 31              | 06/08/96        | --            | --                | --              | --            | --              | --                | --                | --              | --              | --              | 101                  | 5 U                  | 5 U                 |
| X-9BR             | 26 - 31              | 12/15/06        | 777 [801]     | 0.200 U [0.200 U] | 20.0 U [20.0 U] | 1,370 [1,370] | 5.00 U [5.00 U] | 0.200 U [0.200 U] | 102,000 [102,000] | 1.00 U [1.00 U] | 4.00 U [4.00 U] | 20.0 U [20.0 U] | 200 U                | 2 U                  | 5 U                 |
| X-9BR             | 26 - 31              | 01/08/08        | 833           | 0.200 U           | 20.0 U          | 1,550         | 5.00 U          | 0.200 U           | 122,000           | 1.00 U          | 4.00 U          | 20.0 U          | 200 U                | 2 U                  | 5 U                 |
| X-9BR             | 26 - 31              | 03/11/08        | 903           | 0.200 U           | 20.0 U          | 1,310         | 5.00 U          | 0.200 U           | 81,200            | 1.00 U          | 4.00 U          | 20.0 U          | 200 U                | 2 U                  | 5 U                 |
| X-9BR             | 26 - 31              | 09/28/10        | 893           | 0.200 U           | --              | --            | 5.00 U          | --                | 151,000           | --              | --              | --              | --                   | --                   | 5 U                 |
| X-9BR             | 26 - 31              | 09/23/11        | 960           | 0.140             | --              | --            | 5.00 U          | --                | 140,000           | --              | --              | --              | --                   | --                   | 0.63                |
| X-9BR             | 26 - 31              | 09/12/12        | 900 B^        | 0.200 U           | --              | --            | 5.00 U          | --                | 190,000           | --              | --              | --              | --                   | --                   | 0.91 J              |
| X-9BR             | 26 - 31              | 09/25/13        | 620 B         | 0.200 U           | --              | --            | 5.00 U          | --                | 210,000 B         | --              | --              | --              | --                   | --                   | 6.6                 |
| X-9BR             | 26 - 31              | 09/22/14        | 610           | --                | --              | --            | 0.25 J          | --                | 230,000 B         | --              | --              | --              | --                   | --                   | 1.9 J               |
| X-9BR             | 26 - 31              | 10/01/15        | 560           | --                | --              | --            | 0.74 J,B        | --                | 210,000 B         | --              | --              | --              | --                   | --                   | 1.7 J               |
| X-9BR             | 26 - 31              | 09/28/16        | 550           | --                | --              | --            | 0.72 J          | --                | 230,000           | --              | --              | --              | --                   | --                   | 1.8 *J              |
| X-9CAUG           | 20 - 25              | 07/24/95        | --            | --                | --              | --            | --              | --                | --                | --              | --              | --              | 156                  | 5 U                  | 1 UJ                |
| X-9CAUG           | 20 - 25              | 06/08/96        | --            | --                | --              | --            | --              | --                | --                | --              | --              | --              | 100 U                | 5 U                  | 5 U                 |
| X-9CAUG           | 20 - 25              | 12/15/06        | 632           | 0.200 U           | 20.0 U          | 760 J         | 5.00 U          | 0.200 U           | 59,400            | 1.00 U          | 4.00 U          | 20.0 U          | 200 U                | 2 U                  | 5 U                 |
| X-9CAUG           | 20 - 25              | 01/08/08        | 616           | 0.200 U           | 20.0 U          | 39,700        | 5.00 U          | 0.200 U           | 72,800            | 1.00 U          | 4.00 U          | 20.0 U          | 200 U                | 2 U                  | 5 U                 |
| X-9CAUG           | 20 - 25              | 03/11/08        | 679           | 0.200 U           | 20.0 U          | 2,990         | 5.00 U          | 0.200 U           | 59,900            | 1.00 U          | 4.00 U          | 20.0 U          | 200 U                | 2 U                  | 5 U                 |
| X-9CAUG           | 20 - 25              | 09/28/10        | 760           | 0.200 U           | --              | --            | 5.00 U          | --                | 100,000           | --              | --              | --              | --                   | --                   | 5 U                 |
| X-9CAUG           | 20 - 25              | 09/23/11        | 350           | 0.200 U           | --              | --            | 5.00 U          | --                | 54,000            | --              | --              | --              | --                   | --                   | 1.7                 |
| X-9CAUG           | 20 - 25              | 09/12/12        | 340           | 0.200 U           | --              | --            | 0.68 J          | --                | 47,000            | --              | --              | --              | --                   | --                   | 0.12 J              |
| X-9CAUG           | 20 - 25              | 09/25/13        | 290 B         | 0.200 U           | --              | --            | 5.00 U          | --                | 47,000 B          | --              | --              | --              | --                   | --                   | 1.8 J               |
| X-9CAUG           | 20 - 25              | 09/22/14        | 330           | 0.200 U , L       | --              | --            | 0.40 J,B        | --                | 38,000 B          | --              | --              | --              | --                   | --                   | 1.1 J,B             |
| X-9CAUG           | 20 - 25              | 09/30/15        | 640           | --                | --              | --            | 0.32 J          | --                | 88,000 B          | --              | --              | --              | --                   | --                   | 1.1 J,B             |
| X-9CAUG           | 20 - 25              | 09/28/16        | 740           | --                | --              | --            | 0.89 J          | --                | 120,000           | --              | --              | --              | --                   | --                   | 1.0 *J              |
| X-9D              | 42.5 - 47.5          | 01/08/08        | 186           | 0.200 U           | 20.0 U          | 8,070         | 5.00 U          | 0.200 U           | 717,000           | 1.00 U          | 4.00 U          | 8.60 J          | 200 U                | 2 U                  | 5 U                 |
| X-9D              | 42.5 - 47.5          | 03/11/08        | 149           | 0.200 U           | 20.0 U          | 6,730         | 5.00 U          | 0.200 U           | 635,000           | 1.00 U          | 4.00 U          | 20.0 U          | 200 U                | 2 U                  | 5 U                 |
| X-9D              | 42.5 - 47.5          | 03/12/08        | --            | --                | --              | --            | --              | --                | --                | --              | --              | --              | --                   | --                   | --                  |
| X-9D              | 42.5 - 47.5          | 06/05/08        | --            | --                | --              | --            | --              | --                | --                | --              | --              | --              | --                   | --                   | --                  |
| X-9D              | 42.5 - 47.5          | 09/28/10        | 132           | 0.200 U           | --              | --            | 5.00 U          | --                | 685,000           | --              | --              | --              | --                   | --                   | 5 U                 |
| X-9D              | 42.5 - 47.5          | 09/23/11        | 130           | 0.200 U           | --              | --            | 5.00 U          | --                | 690,000           | --              | --              | --              | --                   | --                   | 0.63                |
| X-9D              | 42.5 - 47.5          | 09/12/12        | 110           | 0.200 U           | --              | --            | 5.00 U          | --                | 650,000           | --              | --              | --              | --                   | --                   | 0.83 J              |
| X-9D              | 42.5 - 47.5          | 09/25/13        | 360 B         | 0.200 U           | --              | --            | 5.00 U          | --                | 690,000 B         | --              | --              | --              | --                   | --                   | 22                  |
| X-9D              | 42.5 - 47.5          | 09/22/14        | 170           | --                | --              | --            | 0.58 J          | --                | 680,000 B         | --              | --              | --              | --                   | --                   | 16                  |
| X-9D              | 42.5 - 47.5          | 09/30/15        | 140           | --                | --              | --            | 0.49 J          | --                | 630,000 B         | --              | --              | --              | --                   | --                   | 7.3                 |
| X-9D              | 42.5 - 47.5          | 09/28/16        | 130           | --                | --              | --            | 0.52 J          | --                | 630,000 B         | --              | --              | --              | --                   | --                   | 5.0                 |



Table 2  
Analytical Data Summary Table - GPL Inorganics  
Saginaw, MI  
RACER Trust

| Sample ID:        | Sample Depth (feet): | Date Collected: | Inorganics-Dissolved |                       |                     |                     |                            |                    |                    |                     |                       |                  |                       |                       |                     |
|-------------------|----------------------|-----------------|----------------------|-----------------------|---------------------|---------------------|----------------------------|--------------------|--------------------|---------------------|-----------------------|------------------|-----------------------|-----------------------|---------------------|
|                   |                      |                 | Barium (Dissolved)   | Beryllium (Dissolved) | Cadmium (Dissolved) | Calcium (Dissolved) | Chromium Total (Dissolved) | Cobalt (Dissolved) | Copper (Dissolved) | Cyanide (Dissolved) | Iron (Dissolved)      | Lead (Dissolved) | Magnesium (Dissolved) | Manganese (Dissolved) | Mercury (Dissolved) |
| MDEQ GSI Criteria |                      |                 | 1758.8 (G)           | 65.36 (G)             | 5.9 (G,X)           | --                  | 216 (G,X)                  | 100                | 27.4 (G)           | 5.2                 | --                    | 57.4 (G,X)       | --                    | 6,203.8 (G,X)         | 0.0013              |
| MW-117S1          | 24.2 - 29.2          | 06/20/95        | 1,410                | 5 U                   | 0.2 U               | 133,000 J           | 50 U                       | 50 U               | 25 U               | --                  | 5,780                 | 3 UJ             | 42,500                | 347                   | 0.2 UJ              |
| MW-117S1          | 24.2 - 29.2          | 07/14/95        | --                   | --                    | --                  | --                  | --                         | --                 | --                 | --                  | --                    | --               | --                    | --                    | --                  |
| MW-117S1          | 24.2 - 29.2          | 06/11/96        | 1,670                | --                    | --                  | --                  | --                         | --                 | --                 | --                  | 8,260                 | 3 U              | 50,400                | 330                   | --                  |
| MW-117S1          | 24.2 - 29.2          | 05/19/00        | 1,720                | 4 U                   | 1 U                 | 163,000             | 5 U                        | 40 U               | 25 U               | 5 U                 | 8,730                 | 3 U              | 52,100                | 341                   | 0.2 U               |
| MW-117S1          | 24.2 - 29.2          | 06/19/01        | 1,740                | 4 U                   | 1 U                 | 157,000             | 5 U                        | 40 U               | 25 U               | 5 U                 | 9,120                 | 3 U              | 51,700                | 340                   | --                  |
| MW-117S1          | 24.2 - 29.2          | 06/26/02        | 1,740                | 4 U                   | 1 U                 | 156,000             | 5 U                        | 40 U               | 25 U               | 5 U                 | 8,650                 | 3 U              | 49,400                | 326                   | 0.2 UJ              |
| MW-117S1          | 24.2 - 29.2          | 06/19/03        | 1,800                | 4 U                   | 1 U                 | 171,000             | 5 U                        | 40 U               | 25 U               | 5 U                 | 9,160                 | 3 U              | 52,900                | 354                   | 0.2 UJ              |
| MW-117S1          | 24.2 - 29.2          | 05/27/04        | 1,780                | 4 U                   | 1 U                 | 167,000 J           | 5 U                        | 40 U               | 25 U               | 5 U                 | 10,100                | 3 U              | 51,800 J              | 326 J                 | 0.2 U               |
| MW-117S1          | 24.2 - 29.2          | 06/23/05        | 1,530 J              | 1 U                   | 0.5 U               | 165,000 J           | 2 U                        | 0.75 B             | 0.56 BJ            | 10 U                | 8,150                 | 0.38 B           | 52,600                | 289 J                 | 0.2 U               |
| MW-117S1          | 24.2 - 29.2          | 12/13/06        | 2,010                | 1 U                   | 1 U                 | 152,000             | 5 U                        | 7 U                | 0.84 J             | 10 U                | 8,980                 | 3 U              | 47,600                | 329                   | 0.2 U               |
| MW-117S1          | 24.2 - 29.2          | 12/07/07        | 1,890                | 1 U                   | 1 U                 | 167,000             | 5 U                        | 7 U                | 2 U                | 10 U                | 9,480                 | 3 U              | 54,400                | 332                   | 0.2 U               |
| MW-117S1          | 24.2 - 29.2          | 03/14/08        | 1,810                | 1 U                   | 1 U                 | 152,000             | 5 U                        | 7 U                | 2 U                | 10 U                | 7,350                 | 3 U              | 48,400                | 312                   | 0.2 U               |
| MW-117S1          | 24.2 - 29.2          | 10/01/10        | 1,800 J              | --                    | --                  | --                  | --                         | --                 | --                 | 100 U               | 8,980                 | --               | --                    | 307 J                 | 0.2 U               |
| MW-117S1          | 24.2 - 29.2          | 09/27/11        | 2,000                | --                    | --                  | --                  | --                         | --                 | --                 | --                  | 9,500                 | --               | --                    | 330                   | 0.2 U               |
| MW-117S1          | 24.2 - 29.2          | 09/13/12        | 1,800 B              | --                    | --                  | --                  | --                         | --                 | --                 | 10 U                | 8,600                 | --               | --                    | 300                   | 0.2 U               |
| MW-117S1          | 24.2 - 29.2          | 09/24/13        | 2,000                | --                    | --                  | --                  | --                         | --                 | --                 | 10 U                | 3,900                 | --               | --                    | 510                   | 0.2 U               |
| MW-117S1          | 24.2 - 29.2          | 09/22/14        | 2,100 B              | --                    | --                  | --                  | --                         | --                 | --                 | 10 U                | 12,000 B              | --               | --                    | 290                   | 0.2 U               |
| MW-117S1          | 24.2 - 29.2          | 09/30/15        | --                   | --                    | --                  | --                  | --                         | --                 | --                 | 10 U                | 8,700                 | --               | --                    | 270                   | --                  |
| MW-117S1          | 24.2 - 29.2          | 09/27/16        | 1,500 B              | --                    | --                  | --                  | --                         | --                 | --                 | 10 U                | 9,000 B               | --               | --                    | 270 B                 | --                  |
| MW-117WT          | 3 - 13               | 06/20/95        | 2,210                | 5 U                   | 0.2 U               | 1,340,000 J         | 50 U                       | 50 U               | 25 U               | --                  | 100,000               | 3 UJ             | 485,000               | 5,130                 | 0.2 UJ              |
| MW-117WT          | 3 - 13               | 07/14/95        | --                   | --                    | --                  | --                  | --                         | --                 | --                 | --                  | --                    | --               | --                    | --                    | --                  |
| MW-117WT          | 3 - 13               | 06/11/96        | 2,520                | --                    | --                  | --                  | --                         | --                 | --                 | --                  | 124,000               | 3 U              | 545,000               | 5,190                 | --                  |
| MW-117WT          | 3 - 13               | 05/19/00        | 3,580                | 4 U                   | 1 U                 | 1,200,000           | 5 U                        | 40 U               | 25 U               | 5 U                 | 149,000               | 3 U              | 593,000               | 5,510                 | 0.2 U               |
| MW-117WT          | 3 - 13               | 06/18/01        | 3,170                | 4 U                   | 1.8                 | 1,090,000           | 5 U                        | 40 U               | 25 U               | 5 U                 | 137,000               | 3 U              | 550,000               | 4,900                 | --                  |
| MW-117WT          | 3 - 13               | 06/26/02        | 2,970                | 4 U                   | 1 U                 | 1,110,000           | 5 U                        | 40 U               | 25 U               | 5 U                 | 128,000               | 3 U              | 518,000               | 4,850                 | 0.2 UJ              |
| MW-117WT          | 3 - 13               | 06/19/03        | 3,250                | 4 U                   | 3.8                 | 1,160,000           | 5 U                        | 40 U               | 25 U               | 5 U                 | 139,000               | 3 U              | 584,000               | 5,480                 | 0.2 UJ              |
| MW-117WT          | 3 - 13               | 12/09/04        | 3,110 J [2,880 J]    | 1 U [1 U]             | 0.5 U [0.5 U]       | --                  | 2 U [2 U]                  | 3.6 [2.3]          | 3.1 U [2.7 U]      | 10 U [10 U]         | 143,000 J [125,000 J] | 1 U [1 U]        | --                    | 5,150 J [3,970 J]     | 0.2 U [0.2 U]       |
| MW-117WT          | 3 - 13               | 06/23/05        | 2,360 J              | 1 U                   | 0.5 U               | 896,000 J           | 1.2 B                      | 2.5                | 2.7 J              | 10 U                | 122,000               | 1 U              | 471,000               | 3,810 J               | 0.2 U               |
| MW-117WT          | 3 - 13               | 12/13/06        | 2,710                | 1 U                   | 1 U                 | 788,000             | 5 U                        | 7 U                | 2.4                | 10 U                | 105,000               | 1.9 J            | 387,000               | 4,000                 | 0.11 J              |
| MW-117WT          | 3 - 13               | 12/07/07        | 2,880                | 1 U                   | 1 U                 | 871,000             | 5 U                        | 7 U                | 3.1                | 10 U                | 124,000               | 3 U              | 466,000               | 4,460                 | 0.2 U               |
| MW-117WT          | 3 - 13               | 03/14/08        | 2,670                | 1 U                   | 2.1                 | 829,000             | 5 U                        | 7 U                | 2 U                | 10 U                | 112,000               | 3 U              | 441,000               | 4,160                 | 0.2 U               |
| MW-117WT          | 3 - 13               | 10/01/10        | 2,910 J              | --                    | --                  | --                  | --                         | --                 | --                 | 10 U                | 119,000               | --               | --                    | 4,360 J               | 0.2 U               |
| MW-117WT          | 3 - 13               | 09/27/11        | 3,300                | --                    | --                  | --                  | --                         | --                 | --                 | --                  | 130,000               | --               | --                    | 4,700                 | 0.2 U               |
| MW-117WT          | 3 - 13               | 09/13/12        | 3,000 B              | --                    | --                  | --                  | --                         | --                 | --                 | 10 U                | 110,000               | --               | --                    | 4,100                 | 0.14 J              |
| MW-117WT          | 3 - 13               | 09/24/13        | 3,100                | --                    | --                  | --                  | --                         | --                 | --                 | 10 U                | 130,000               | --               | --                    | 7,000                 | 0.2 U               |
| MW-117WT          | 3 - 13               | 09/23/14        | 2,800 B              | --                    | --                  | --                  | --                         | --                 | --                 | 10 U                | 110,000 B             | --               | --                    | 3,700                 | 0.2 U               |
| MW-117WT          | 3 - 13               | 09/30/15        | 2,100                | --                    | --                  | --                  | --                         | --                 | --                 | 10 U                | 83,000                | --               | --                    | 2,900                 | --                  |
| MW-117WT          | 3 - 13               | 09/27/16        | 1,600 B              | --                    | --                  | --                  | --                         | --                 | --                 | 10 U                | 96,000 B              | --               | --                    | 3,400 B               | --                  |
| MW-117WT          | 3 - 13               | 10/13/16        | --                   | --                    | --                  | --                  | --                         | --                 | --                 | --                  | --                    | --               | --                    | --                    | --                  |
| MW-118S1          | 23.5 - 28.5          | 06/20/95        | 482                  | 5 U                   | 0.2 U               | 120,000 J           | 50 U                       | 50 U               | 25 U               | --                  | 2,500                 | 3 UJ             | 38,100                | 347                   | 0.2 UJ              |
| MW-118S1          | 23.5 - 28.5          | 07/14/95        | --                   | --                    | --                  | --                  | --                         | --                 | --                 | --                  | --                    | --               | --                    | --                    | --                  |
| MW-118S1          | 23.5 - 28.5          | 06/11/96        | 532                  | --                    | --                  | --                  | --                         | --                 | --                 | --                  | 5,390                 | 3 U              | 47,000                | 383                   | --                  |
| MW-118S1          | 23.5 - 28.5          | 05/17/00        | 593 [612]            | 4 U [4 U]             | 1 U [1 U]           | 156,000 [156,000]   | 5 U [5 U]                  | 40 U [40 U]        | 25 U [25 U]        | 5 U [5 U]           | 6,090 [6,150]         | 3 U [3 U]        | 49,300 [49,800]       | 420 [415]             | 0.2 U [0.2 U]       |
| MW-118S1          | 23.5 - 28.5          | 06/19/01        | 645                  | 4 U                   | 1 U                 | 151,000             | 5 U                        | 40 U               | 25 U               | 5 U                 | 7,070                 | 3 U              | 49,400                | 428                   | --                  |
| MW-118S1          | 23.5 - 28.5          | 06/27/02        | 622                  | 4 U                   | 1 U                 | 151,000             | 5 U                        | 40 U               | 25 U               | 5 U                 | 6,070                 | 3 U              | 47,900                | 408                   | 0.2 UJ              |
| MW-118S1          | 23.5 - 28.5          | 06/19/03        | 713                  | 4 U                   | 1 U                 | 172,000             | 5 U                        | 40 U               | 25 U               | 5 U                 | 7,570                 | 3 U              | 53,700                | 476                   | 0.2 UJ              |
| MW-118S1          | 23.5 - 28.5          | 12/09/04        | 718 J                | 1 U                   | 0.5 U               | --                  | 2 U                        | 1 U                | 2 U                | 10 U                | 7,420 J               | 1 U              | --                    | 405 J                 | 0.2 U               |
| MW-118S1          | 23.5 - 28.5          | 06/23/05        | 676 JE               | 1 U                   | 0.5 U               | 160,000 J           | 2 U                        | 0.68 B             | 2 U                | 10 U                | 6,630                 | 1 U              | 50,900                | 370 J                 | 0.2 U               |
| MW-118S1          | 23.5 - 28.5          | 12/14/06        | 727                  | 1 U                   | 1 U                 | 145,000             | 5 U                        | 7 U                | 2 U                | 10 U                | 5,930                 | 3 U              | 46,100                | 401                   | 0.2 U               |
| MW-118S1          | 23.5 - 28.5          | 12/07/07        | 753                  | 1 U                   | 1 U                 | 168,000             | 5 U                        | 7 U                | 2 U                | 10 U                | 6,940                 | 3 U              | 54,900                | 425                   | 0.2 U               |
| MW-118S1          | 23.5 - 28.5          | 04/01/08        | 763                  | 1 U                   | 1 U                 | 156,000             | 5 U                        | 7 U                | 0.7 J              | 10 U                | 6,340                 | 3 U              | 49,400                | 413                   | 0.2 U               |
| MW-118S1          | 23.5 - 28.5          | 10/01/10        | 759 J                | --                    | --                  | --                  | --                         | --                 | --                 | 10 U                | 6,570                 | --               | --                    | 395 J                 | 0.2 U               |
| MW-118S1          | 23.5 - 28.5          | 09/27/11        | 810                  | --                    | --                  | --                  | --                         | --                 | --                 | 10 U                | 6,700                 | --               | --                    | 410                   | 0.2 U               |
| MW-118S1          | 23.5 - 28.5          | 09/13/12        | 710 B                | --                    | --                  | --                  | --                         | --                 | --                 | --                  | 11                    | --               | --                    | 400                   | 0.2 U               |
| MW-118S1          | 23.5 - 28.5          | 09/24/13        | 970 B                | --                    | --                  | --                  | --                         | --                 | --                 | 10 U                | 3,900 B               | --               | --                    | 470 B                 | 0.2 U               |
| MW-118S1          | 23.5 - 28.5          | 09/22/14        | 730 B                | --                    | --                  | --                  | --                         | --                 | --                 | 10 U                | 50 U                  | --               | --                    | 350                   | --                  |
| MW-118S1          | 23.5 - 28.5          | 09/30/15        | 890                  | --                    | --                  | --                  | --                         | --                 | --                 | 10 U                | 7,700                 | --               | --                    | 340                   | --                  |
| MW-118S1          | 23.5 - 28.5          | 09/27/16        | 850 B                | --                    | --                  | --                  | --                         | --                 | --                 | 10 U                | 8,700 B               | --               | --                    | 360 B                 | --                  |

Table 2  
Analytical Data Summary Table - GPL Inorganics  
Saginaw, MI  
RACER Trust



|            |             |          | Inorganics-Dissolved    |                          |                        |                        |                               |                       |                       |                        |                     |                     |                          |                          |                     |
|------------|-------------|----------|-------------------------|--------------------------|------------------------|------------------------|-------------------------------|-----------------------|-----------------------|------------------------|---------------------|---------------------|--------------------------|--------------------------|---------------------|
|            |             |          | Barium<br>(Dissolved)   | Beryllium<br>(Dissolved) | Cadmium<br>(Dissolved) | Calcium<br>(Dissolved) | Chromium Total<br>(Dissolved) | Cobalt<br>(Dissolved) | Copper<br>(Dissolved) | Cyanide<br>(Dissolved) | Iron<br>(Dissolved) | Lead<br>(Dissolved) | Magnesium<br>(Dissolved) | Manganese<br>(Dissolved) | Mercury (Dissolved) |
| Sample ID: |             |          | Sample Depth<br>(feet): |                          |                        | Date Collected:        |                               |                       | MDEQ GSI Criteria     |                        |                     |                     |                          |                          |                     |
|            |             |          | 1758.8 (G)              | 65.36 (G)                | 5.9 (G,X)              | --                     | 216 (G,X)                     | 100                   | 27.4 (G)              | 5.2                    | --                  | 57.4 (G,X)          | --                       | 6,203.8 (G,X)            | 0.0013              |
| MW-118WT   | 1.6 - 11.6  | 06/20/95 | 1,970                   | 5 U                      | 0.2 U                  | 1,950,000 J            | 50 U                          | 50 U                  | 25 U                  | --                     | 71,500              | 3 UJ                | 372,000                  | 5,460                    | 0.2 UJ              |
| MW-118WT   | 1.6 - 11.6  | 07/14/95 | --                      | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                  |
| MW-118WT   | 1.6 - 11.6  | 06/11/96 | 2,420                   | --                       | --                     | --                     | --                            | --                    | --                    | --                     | 93,100              | 3 U                 | 457,000                  | 5,390                    | --                  |
| MW-118WT   | 1.6 - 11.6  | 05/17/00 | 7,970                   | 4 U                      | 1.5                    | 4,890,000              | 5 U                           | 40 U                  | 25 U                  | 5 U                    | 261,000             | 3 U                 | 1,330,000                | 8,930                    | 0.2 U               |
| MW-118WT   | 1.6 - 11.6  | 06/19/01 | 10,700 [11,200]         | 4 U [4 U]                | 8.3 [8.6]              | 5,750,000 [6,040,000]  | 5 U [5 U]                     | 40 U [40 U]           | 25 U [25 U]           | 5 U [5 U]              | 330,000 [344,000]   | 3 U [3 U]           | 1,760,000 [1,840,000]    | 7,740 [8,070]            | --                  |
| MW-118WT   | 1.6 - 11.6  | 06/27/02 | 8,650 [9,200]           | 4 U [4 U]                | 2.5 [2.9]              | 4,630,000 [4,880,000]  | 5 U [5 U]                     | 40 U [40 U]           | 25 U [25 U]           | 5 U [5 U]              | 259,000 [277,000]   | 3 U [3 U]           | 1,390,000 [1,470,000]    | 6,250 [6,360]            | 0.2 UJ [0.2 UJ]     |
| MW-118WT   | 1.6 - 11.6  | 06/19/03 | 5,620 [5,420]           | 4 U [4 U]                | 6.6 [6]                | 2,940,000 [2,840,000]  | 5 U [5 U]                     | 40 U [40 U]           | 25 U [25 U]           | 5 U [5 U]              | 173,000 [166,000]   | 3 U [3 U]           | 916,000 [883,000]        | 4,110 [4,000]            | 0.2 UJ [0.2 UJ]     |
| MW-118WT   | 1.6 - 11.6  | 05/27/04 | 4,350                   | 4 U                      | 0.72                   | 2,290,000 J            | 2.1                           | 40 U                  | 25 U                  | 5 U                    | 135,000             | 3 U                 | 721,000 J                | 3,080 J                  | 0.2 U               |
| MW-118WT   | 1.6 - 11.6  | 06/23/05 | 2,210 J                 | 1 U                      | 0.5 U                  | 953,000 J              | 1.5 B                         | 5                     | 3.6 J                 | 10 U                   | 92,400              | 1 U                 | 444,000                  | 1,560 J                  | 0.2 U               |
| MW-118WT   | 1.6 - 11.6  | 12/14/06 | 1,400                   | 1 U                      | 1 U                    | 670,000                | 5 U                           | 1.7 J                 | 1.6 J                 | 10 U                   | 39,200              | 3 U                 | 206,000                  | 1,050                    | 0.2 U               |
| MW-118WT   | 1.6 - 11.6  | 12/07/07 | 1,120                   | 1 U                      | 1 U                    | 601,000                | 5 U                           | 7 U                   | 2.2 U                 | 10 U                   | 35,400              | 3 U                 | 196,000                  | 881                      | 0.2 U               |
| MW-118WT   | 1.6 - 11.6  | 04/01/08 | 1,040                   | 1 U                      | 1 U                    | 510,000                | 5 U                           | 7 U                   | 0.45 J                | 10 U                   | 30,500              | 3 U                 | 176,000                  | 800                      | 0.2 U               |
| MW-118WT   | 1.6 - 11.6  | 09/30/10 | 571 J                   | --                       | --                     | --                     | --                            | --                    | --                    | 10 U                   | 16,900              | --                  | --                       | 448 J                    | 0.2 U               |
| MW-118WT   | 1.6 - 11.6  | 09/27/11 | 600                     | --                       | --                     | --                     | --                            | --                    | --                    | --                     | 16,000              | --                  | --                       | 470                      | 0.2 U               |
| MW-118WT   | 1.6 - 11.6  | 09/13/12 | 390                     | --                       | --                     | --                     | --                            | --                    | --                    | --                     | 11,000              | --                  | --                       | 340                      | 0.17 J              |
| MW-118WT   | 1.6 - 11.6  | 09/24/13 | 390 B                   | --                       | --                     | --                     | --                            | --                    | --                    | 10 U                   | 8,700 B             | --                  | --                       | 330 B                    | 0.2 U               |
| MW-118WT   | 1.6 - 11.6  | 09/22/14 | 360 B                   | --                       | --                     | --                     | --                            | --                    | --                    | 10 U                   | 8,600 B             | --                  | --                       | 300                      | 0.2 U               |
| MW-118WT   | 1.6 - 11.6  | 09/30/15 | 300                     | --                       | --                     | --                     | --                            | --                    | --                    | 10 U                   | 7,100               | --                  | --                       | 270                      | --                  |
| MW-118WT   | 1.6 - 11.6  | 09/27/16 | 300 B                   | --                       | --                     | --                     | --                            | --                    | --                    | 10 U                   | 8,500 B             | --                  | --                       | 300 B                    | --                  |
| MW-183WT   | 6 - 16      | 12/06/07 | --                      | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                  |
| MW-183WT   | 6 - 16      | 01/09/08 | 45.6 J [44.2 J]         | 1 U [1 U]                | 1 U [1 U]              | 74,300 [71,200]        | 5 U [5 U]                     | 7 U [7 U]             | 2 U [2 U]             | 10 U [10 U]            | 714 J [1,280 J]     | 3 U [3 U]           | 13,900 [13,300]          | 440 [565 J]              | 0.2 U [0.2 U]       |
| MW-183WT   | 6 - 16      | 03/12/08 | 51.4 J                  | 1 U                      | 1 U                    | 80,500                 | 5 U                           | 7 U                   | 2 U                   | 10 U                   | 298                 | 3 U                 | 14,700                   | 608                      | 0.2 U               |
| MW-183WT   | 6 - 16      | 09/28/10 | 36.8 BJ [37 BJ]         | --                       | --                     | --                     | --                            | --                    | --                    | 10 U                   | 3.06 [3.02]         | --                  | --                       | 243 [238]                | 0.20 U [0.20 U]     |
| MW-183WT   | 6 - 16      | 09/28/11 | 39                      | --                       | --                     | --                     | --                            | --                    | --                    | --                     | 2,600               | --                  | --                       | 250                      | 0.2 U               |
| MW-183WT   | 6 - 16      | 09/14/12 | 78 B                    | --                       | --                     | --                     | --                            | --                    | --                    | 10 U                   | 2,100               | --                  | --                       | 400 B                    | 0.2 U               |
| MW-183WT   | 6 - 16      | 09/24/13 | 82 B                    | --                       | --                     | --                     | --                            | --                    | --                    | 10 U                   | 3,400 B             | --                  | --                       | 490 B                    | 0.2 U               |
| MW-183WT   | 6 - 16      | 09/23/14 | 460 B [470 B]           | --                       | --                     | --                     | --                            | --                    | --                    | 10 U                   | 2,700 B [2,600 B]   | --                  | --                       | 550 [560]                | 0.20 U [0.20 U]     |
| MW-183WT   | 6 - 16      | 10/01/15 | 44                      | --                       | --                     | --                     | --                            | --                    | --                    | 10 U                   | 2,600               | --                  | --                       | 350                      | --                  |
| MW-183WT   | 6 - 16      | 09/28/16 | 40 B                    | --                       | --                     | --                     | --                            | --                    | --                    | 10 U                   | 5,300 B             | --                  | --                       | 1,100 B                  | --                  |
| TWW-1      | 1.5 - 6.5   | 01/25/97 | 200 UL                  | 5 U                      | 0.5 U                  | 318,000                | 50 U                          | 50 U                  | 25 U                  | 10 U                   | 110                 | 3 U                 | 104,000                  | 2,110                    | 0.2 U               |
| TWW-1      | 1.5 - 6.5   | 05/21/00 | 145                     | 4 U                      | 1 U                    | 251,000                | 5 U                           | 10 U                  | 25 U                  | --                     | 127 U               | 3 U                 | 85,100                   | 1,610                    | 0.2 U               |
| TWW-1      | 1.5 - 6.5   | 05/29/08 | --                      | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                  |
| TWW-1      | 1.5 - 6.5   | 09/27/16 | --                      | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                  |
| TWW-1      | 1.5 - 6.5   | 09/27/16 | --                      | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                  |
| X-10BR     | 26.3 - 31.3 | 07/24/95 | 387                     | 5 U                      | 0.2 U                  | 183,000                | 50 U                          | 50 U                  | 25 U                  | --                     | 22,600              | 3 U                 | 49,300                   | 457                      | 0.2 UJ              |
| X-10BR     | 26.3 - 31.3 | 12/15/06 | 598                     | 1 U                      | 1 U                    | 211,000                | 5 U                           | 7 U                   | 2 U                   | 10 U                   | 30,500              | 3 U                 | 58,400                   | 691                      | 0.2 U               |
| X-10BR     | 26.3 - 31.3 | 12/04/07 | 570                     | 1 U                      | 1 U                    | 219,000                | 5 U                           | 7 U                   | 2 U                   | 10 U                   | 32,700              | 3 U                 | 62,900                   | 696                      | 0.2 U               |
| X-10BR     | 26.3 - 31.3 | 03/12/08 | 597                     | 1 U                      | 1 U                    | 222,000                | 5 U                           | 7 U                   | 2 U                   | 10 U                   | 31,800              | 3 U                 | 61,600                   | 716                      | 0.2 U               |
| X-10BR     | 26.3 - 31.3 | 09/29/10 | 581 J                   | --                       | --                     | --                     | --                            | --                    | --                    | 10 U                   | 31,700              | --                  | --                       | 751                      | 0.2 U               |
| X-10BR     | 26.3 - 31.3 | 09/22/11 | 630                     | --                       | --                     | --                     | --                            | --                    | --                    | 10 U                   | 35,000              | --                  | --                       | 750                      | 0.2 U               |
| X-10BR     | 26.3 - 31.3 | 09/14/12 | 570                     | --                       | --                     | --                     | --                            | --                    | --                    | 10 U                   | 30,000              | --                  | --                       | 730 B^                   | 0.2 U               |
| X-10BR     | 26.3 - 31.3 | 09/24/13 | 630                     | --                       | --                     | --                     | --                            | --                    | --                    | 10 U                   | 33,000              | --                  | --                       | 750                      | 0.2 U               |
| X-4AR      | 3.3 - 8.3   | 07/24/95 | 200 U                   | 5 U                      | 0.2 U                  | 149,000                | 50 U                          | 50 U                  | 25 U                  | --                     | 1,080               | 3 U                 | 29,900                   | 248                      | 0.2 UJ              |
| X-4AR      | 3.3 - 8.3   | 06/09/96 | 200 U                   | 5 U                      | 0.5 UJ                 | 176,000                | 50 U                          | 50 U                  | 25 U                  | 5 U                    | 289                 | 3 U                 | 32,900                   | 44.4                     | 0.2 U               |
| X-4AR      | 3.3 - 8.3   | 05/21/00 | 73.9 B                  | 4 U                      | 1 U                    | 162,000                | 5 U                           | 10 U                  | 25 U                  | --                     | 100 U               | 3 U                 | 29,500                   | 15 U                     | 0.2 U               |
| X-4AR      | 3.3 - 8.3   | 06/03/04 | --                      | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                  |
| X-4CAUG    | 18 - 23     | 07/24/95 | 200 U                   | 5 U                      | 0.2 U                  | 88,500                 | 50 U                          | 50 U                  | 25 U                  | --                     | 1,970               | 3 U                 | 23,900                   | 447                      | 0.2 UJ              |
| X-4CAUG    | 18 - 23     | 06/08/96 | 200 U                   | 5 U                      | 0.63                   | 89,000                 | 50 U                          | 50 U                  | 25 U                  | 5 UJ                   | 1,980               | 3 U                 | 23,500                   | 464                      | 0.2 U               |
| X-4CAUGR   | 14 - 19     | 01/09/08 | 123                     | 1 U                      | 1 U                    | 101,000                | 5 U                           | 7 U                   | 2 U                   | 10 U                   | 4,940               | 3 U                 | 28,300                   | 427                      | 0.2 U               |
| X-4CAUGR   | 14 - 19     | 03/12/08 | 137                     | 1 U                      | 1 U                    | 126,000                | 5 U                           | 7 U                   | 2 U                   | 10 U                   | 5,020               | 3 U                 | 34,100                   | 535                      | 0.2 U               |
| X-4CAUGR   | 14 - 19     | 09/28/10 | 129 J                   | --                       | --                     | --                     | --                            | --                    | --                    | 10 U                   | 5,180               | --                  | --                       | 571                      | 0.2 U               |
| X-4CAUGR   | 14 - 19     | 09/26/11 | 130                     | --                       | --                     | --                     | --                            | --                    | --                    | 10 U                   | 5,000               | --                  | --                       | 590                      | 0.2 U               |
| X-4CAUGR   | 14 - 19     | 09/14/12 | 120 B                   | --                       | --                     | --                     | --                            | --                    | --                    | 10 U                   | 4,400               | --                  | --                       | 570 B^                   | 0.2 U               |
| X-4CAUGR   | 14 - 19     | 09/24/13 | 89 B                    | --                       | --                     | --                     | --                            | --                    | --                    | 10 U                   | 6,300 B             | --                  | --                       | 760 B                    | 0.2 U               |
| X-4CAUGR   | 14 - 19     | 09/23/14 | 140 B                   | --                       | --                     | --                     | --                            | --                    | --                    | 10 U                   | 9,000 B             | --                  | --                       | 610                      | 0.2 U               |
| X-4CAUGR   | 14 - 19     | 09/30/15 | 140                     | --                       | --                     | --                     | --                            | --                    | --                    | 10 U                   | 7,800               | --                  | --                       | 500                      | --                  |
| X-4CAUGR   | 14 - 19     | 09/28/16 | 96 B                    | --                       | --                     | --                     | --                            | --                    | --                    | 10 U                   | 4,700 B             | --                  | --                       | 370 B                    | --                  |

Table 2  
Analytical Data Summary Table - GPL Inorganics  
Saginaw, MI  
RACER Trust



| Sample ID:        | Sample Depth (feet): | Date Collected: | Inorganics-Dissolved |                       |                     |                     |                            |                    |                    |                     |                  |                  |                       |                       |                     |
|-------------------|----------------------|-----------------|----------------------|-----------------------|---------------------|---------------------|----------------------------|--------------------|--------------------|---------------------|------------------|------------------|-----------------------|-----------------------|---------------------|
|                   |                      |                 | Barium (Dissolved)   | Beryllium (Dissolved) | Cadmium (Dissolved) | Calcium (Dissolved) | Chromium Total (Dissolved) | Cobalt (Dissolved) | Copper (Dissolved) | Cyanide (Dissolved) | Iron (Dissolved) | Lead (Dissolved) | Magnesium (Dissolved) | Manganese (Dissolved) | Mercury (Dissolved) |
| MDEQ GSI Criteria |                      |                 | 1758.8 (G)           | 65.36 (G)             | 5.9 (G,X)           | --                  | 216 (G,X)                  | 100                | 27.4 (G)           | 5.2                 | --               | 57.4 (G,X)       | --                    | 6,203.8 (G,X)         | 0.0013              |
| X-4D              | 40 - 45              | 01/09/08        | 124                  | 1 U                   | 1 U                 | 171,000             | 5 U                        | 7 U                | 2 U                | 10 U                | 2,080            | 3 U              | 74,600                | 318                   | 0.2 U               |
| X-4D              | 40 - 45              | 04/01/08        | 112 [111]            | 1 U [1 U]             | 1 U [1 U]           | 179,000 [176,000]   | 5 U [5 U]                  | 7 U [7 U]          | 2 U [0.31 J]       | 10 U [10 U]         | 1,930 [1,780]    | 3 U [3 U]        | 73,600 [72,600]       | 263 [258]             | 0.2 U [0.2 U]       |
| X-4D              | 40 - 45              | 04/03/08        | --                   | --                    | --                  | --                  | --                         | --                 | --                 | --                  | --               | --               | --                    | --                    | --                  |
| X-4D              | 40 - 45              | 06/05/08        | --                   | --                    | --                  | --                  | --                         | --                 | --                 | --                  | --               | --               | --                    | --                    | --                  |
| X-4D              | 40 - 45              | 09/28/10        | 98.9 BJ              | --                    | --                  | --                  | --                         | --                 | --                 | 10 U                | 979              | --               | --                    | 275                   | 0.2 U               |
| X-4D              | 40 - 45              | 09/26/11        | 99                   | --                    | --                  | --                  | --                         | --                 | --                 | 10 U                | 1,300            | --               | --                    | 180                   | 0.2 U               |
| X-4D              | 40 - 45              | 09/14/12        | 87 B                 | --                    | --                  | --                  | --                         | --                 | --                 | 10 U                | 1,000            | --               | --                    | 190 B ^               | 0.2 U               |
| X-4D              | 40 - 45              | 09/24/13        | 89 B                 | --                    | --                  | --                  | --                         | --                 | --                 | 10 U                | 1,200            | --               | --                    | 160 B                 | 0.2 U               |
| X-4D              | 40 - 45              | 09/23/14        | 82 B                 | --                    | --                  | --                  | --                         | --                 | --                 | 10 U                | 35 J,B           | --               | --                    | 180                   | 0.2 U               |
| X-4D              | 40 - 45              | 09/30/15        | 82                   | --                    | --                  | --                  | --                         | --                 | --                 | 10 U                | 740              | --               | --                    | 180                   | --                  |
| X-4D              | 40 - 45              | 09/28/16        | 91 B                 | --                    | --                  | --                  | --                         | --                 | --                 | 10 U                | 1,100 B          | --               | --                    | 200 B                 | --                  |
| X-9AR             | 3 - 13               | 07/24/95        | 200 U                | 5 U                   | 0.2 U               | 145,000             | 50 U                       | 50 U               | 25 U               | --                  | 9,170            | 3 U              | 38,700                | 674                   | 0.2 UJ              |
| X-9AR             | 3 - 13               | 06/09/96        | 200 U                | 5 U                   | 0.5 UJ              | 144,000             | 50 U                       | 50 U               | 25 U               | 5 UJ                | 3,190            | 3 U              | 36,300                | 382                   | 0.2 U               |
| X-9AR             | 3 - 13               | 12/15/06        | 91.2 J               | 1 U                   | 1 U                 | 166,000             | 5 U                        | 7 U                | 0.59 J             | 10 U                | 965              | 3 U              | 42,900                | 153                   | 0.2 U               |
| X-9AR             | 3 - 13               | 01/10/08        | 110                  | 1 U                   | 1 U                 | 168,000             | 5 U                        | 7 U                | 2 U                | 10 U                | 5,620            | 3 U              | 46,300                | 325                   | 0.2 U               |
| X-9AR             | 3 - 13               | 03/11/08        | 51.2 J               | 1 U                   | 1 U                 | 141,000             | 5 U                        | 7 U                | 2 U                | 10 U                | 134              | 3 U              | 37,500                | 3.1 J                 | 0.2 U               |
| X-9AR             | 3 - 13               | 06/05/08        | --                   | --                    | --                  | --                  | --                         | --                 | --                 | --                  | --               | --               | --                    | --                    | 0.2 U [0.2 U]       |
| X-9AR             | 3 - 13               | 09/29/10        | 116 J                | --                    | --                  | --                  | --                         | --                 | --                 | 10 U                | 6,580            | --               | --                    | 388                   | 0.2 U               |
| X-9AR             | 3 - 13               | 09/23/11        | 200                  | --                    | --                  | --                  | --                         | --                 | --                 | 10 U                | 6,600            | --               | --                    | 750                   | 0.14                |
| X-9AR             | 3 - 13               | 09/12/12        | 190                  | --                    | --                  | --                  | --                         | --                 | --                 | 10 U                | 5,500            | --               | --                    | 780 B ^               | 0.2 U               |
| X-9AR             | 3 - 13               | 09/25/13        | 220 B                | --                    | --                  | --                  | --                         | --                 | --                 | 10 U                | 8,900 B          | --               | --                    | 670 B                 | 0.2 U               |
| X-9AR             | 3 - 13               | 09/22/14        | 170 B                | --                    | --                  | --                  | --                         | --                 | --                 | 10 U                | 9,100            | --               | --                    | 590                   | --                  |
| X-9AR             | 3 - 13               | 10/01/15        | 87                   | --                    | --                  | --                  | --                         | --                 | --                 | 10 U                | 4,700            | --               | --                    | 300                   | --                  |
| X-9AR             | 3 - 13               | 09/28/16        | 97                   | --                    | --                  | --                  | --                         | --                 | --                 | 10 U                | 5,500            | --               | --                    | 360                   | --                  |
| X-9BR             | 26 - 31              | 07/24/95        | 200 U                | 5 U                   | 0.2 U               | 118,000             | 50 U                       | 50 U               | 25 U               | --                  | 3,360            | 3 U              | 37,600                | 763                   | 0.2 UJ              |
| X-9BR             | 26 - 31              | 06/08/96        | 200 U                | 5 U                   | 0.5 UJ              | 130,000             | 50 U                       | 50 U               | 25 U               | 5 UJ                | 2,490            | 3 U              | 42,600                | 813                   | 0.2 U               |
| X-9BR             | 26 - 31              | 12/15/06        | 153                  | 1 U                   | 1 U                 | 112,000             | 5 U                        | 7 U                | 2 U                | 10 U                | 4,450            | 3 U              | 34,500                | 717                   | 0.2 U               |
| X-9BR             | 26 - 31              | 01/08/08        | 103                  | 1 U                   | 1 U                 | 79,200              | 5 U                        | 7 U                | 2 U                | 10 U                | 2,790            | 3 U              | 24,300                | 541                   | 0.2 U               |
| X-9BR             | 26 - 31              | 03/11/08        | 136                  | 1 U                   | 1 U                 | 123,000             | 5 U                        | 7 U                | 2 U                | 10 U                | 2,560            | 3 U              | 38,000                | 828                   | 0.2 U               |
| X-9BR             | 26 - 31              | 09/28/10        | 164 J                | --                    | --                  | --                  | --                         | --                 | --                 | 10 U                | 4,060            | --               | --                    | 848                   | 0.2 U               |
| X-9BR             | 26 - 31              | 09/23/11        | 180                  | --                    | --                  | --                  | --                         | --                 | --                 | 10 U                | 3,700            | --               | --                    | 960                   | 0.2 U               |
| X-9BR             | 26 - 31              | 09/12/12        | 160                  | --                    | --                  | --                  | --                         | --                 | --                 | 10 U                | 5,300            | --               | --                    | 850 B ^               | 0.2 U               |
| X-9BR             | 26 - 31              | 09/25/13        | 140 B                | --                    | --                  | --                  | --                         | --                 | --                 | 10 U                | 9,000 B          | --               | --                    | 740 B                 | 0.2 U               |
| X-9BR             | 26 - 31              | 09/22/14        | 160 B                | --                    | --                  | --                  | --                         | --                 | --                 | 10 U                | 10,000           | --               | --                    | 630                   | --                  |
| X-9BR             | 26 - 31              | 10/01/15        | 170                  | --                    | --                  | --                  | --                         | --                 | --                 | 10 U                | 8,700            | --               | --                    | 560                   | --                  |
| X-9BR             | 26 - 31              | 09/28/16        | 150                  | --                    | --                  | --                  | --                         | --                 | --                 | 10 U                | 7,900            | --               | --                    | 530                   | --                  |
| X-9CAUG           | 20 - 25              | 07/24/95        | 200 U                | 5 U                   | 0.2 U               | 122,000             | 50 U                       | 50 U               | 25 U               | --                  | 7,500            | 3 U              | 38,500                | 628                   | 0.2 UJ              |
| X-9CAUG           | 20 - 25              | 06/08/96        | 200 U                | 5 U                   | 0.5 U               | 132,000             | 50 U                       | 50 U               | 25 U               | 5 UJ                | 8,900            | 3 U              | 40,000                | 615                   | 0.2 U               |
| X-9CAUG           | 20 - 25              | 12/15/06        | 173                  | 1 U                   | 1 U                 | 124,000             | 5 U                        | 7 U                | 2 U                | 10 U                | 6,730            | 3 U              | 38,100                | 630                   | 0.2 U               |
| X-9CAUG           | 20 - 25              | 01/08/08        | 360                  | 1 U                   | 1 U                 | 116,000             | 5 U                        | 7 U                | 2 U                | 10 U                | 2,810            | 3 U              | 38,700                | 586                   | 0.2 U               |
| X-9CAUG           | 20 - 25              | 03/11/08        | 174                  | 1 U                   | 1 U                 | 133,000             | 5 U                        | 7 U                | 2 U                | 10 U                | 6,730            | 3 U              | 40,400                | 699                   | 0.2 U               |
| X-9CAUG           | 20 - 25              | 09/28/10        | 194 J                | --                    | --                  | --                  | --                         | --                 | --                 | 10 U                | 5,790            | --               | --                    | 801                   | 0.2 U               |
| X-9CAUG           | 20 - 25              | 09/23/11        | 120                  | --                    | --                  | --                  | --                         | --                 | --                 | 10 U                | 6,000            | --               | --                    | 350                   | 0.15                |
| X-9CAUG           | 20 - 25              | 09/12/12        | 100 B                | --                    | --                  | --                  | --                         | --                 | --                 | 10 U                | 5,200            | --               | --                    | 340                   |                     |
| X-9CAUG           | 20 - 25              | 09/25/13        | 87 B                 | --                    | --                  | --                  | --                         | --                 | --                 | 10 U                | 4,400 B          | --               | --                    | 300 B                 | 0.2 U               |
| X-9CAUG           | 20 - 25              | 09/22/14        | 860 B                | --                    | --                  | --                  | --                         | --                 | --                 | 10 U                | 5,700 B          | --               | --                    | 350                   | 0.2 U               |
| X-9CAUG           | 20 - 25              | 09/30/15        | 190                  | --                    | --                  | --                  | --                         | --                 | --                 | 10 U                | 10,000           | --               | --                    | 550                   | --                  |
| X-9CAUG           | 20 - 25              | 09/28/16        | 250                  | --                    | --                  | --                  | --                         | --                 | --                 | 10 U                | 9,900            | --               | --                    | 690                   | --                  |
| X-9D              | 42.5 - 47.5          | 01/08/08        | 87.8 J               | 1 U                   | 1 U                 | 188,000             | 5 U                        | 7 U                | 2 U                | 10 U                | 3,370            | 3 U              | 75,900                | 173                   | 0.2 U               |
| X-9D              | 42.5 - 47.5          | 03/11/08        | 86.6 J               | 1 U                   | 1 U                 | 191,000             | 5 U                        | 7 U                | 2 U                | 10 U                | 3,570            | 3 U              | 76,300                | 155                   | 0.2 U               |
| X-9D              | 42.5 - 47.5          | 03/12/08        | --                   | --                    | --                  | --                  | --                         | --                 | --                 | --                  | --               | --               | --                    | --                    | --                  |
| X-9D              | 42.5 - 47.5          | 06/05/08        | --                   | --                    | --                  | --                  | --                         | --                 | --                 | --                  | --               | --               | --                    | --                    | --                  |
| X-9D              | 42.5 - 47.5          | 09/28/10        | 90.3 BJ              | --                    | --                  | --                  | --                         | --                 | --                 | 10 U                | 2,670            | --               | --                    | 125                   | 0.2 U               |
| X-9D              | 42.5 - 47.5          | 09/23/11        | 95                   | --                    | --                  | --                  | --                         | --                 | --                 | 10 U                | 2,900            | --               | --                    | 120                   | 0.2 U               |
| X-9D              | 42.5 - 47.5          | 09/12/12        | 88 B                 | --                    | --                  | --                  | --                         | --                 | --                 | 10 U                | 2,700            | --               | --                    | 120                   | 0.2 U               |
| X-9D              | 42.5 - 47.5          | 09/25/13        | 140 B                | --                    | --                  | --                  | --                         | --                 | --                 | 10 U                | 2,900 B          | --               | --                    | 390 B                 | 0.2 U               |
| X-9D              | 42.5 - 47.5          | 09/22/14        | 110 B                | --                    | --                  | --                  | --                         | --                 | --                 | 10 U                | 2,800            | --               | --                    | 170                   | --                  |
| X-9D              | 42.5 - 47.5          | 09/30/15        | 85                   | --                    | --                  | --                  | --                         | --                 | --                 | 10 U                | 1,900            | --               | --                    | 180                   | --                  |
| X-9D              | 42.5 - 47.5          | 09/28/16        | 91                   | --                    | --                  | --                  | --                         | --                 | --                 | 10 U                | 2,200            | --               | --                    | 120                   | --                  |



Table 2  
Analytical Data Summary Table - GPL Inorganics  
Saginaw, MI  
RACER Trust

| Sample ID:        | Sample Depth (feet): | Date Collected: | Inorganics-Dissolved |                       |                      |                    |                    |                      |                 |                      |                  | Miscellaneous         |                  |                                 |
|-------------------|----------------------|-----------------|----------------------|-----------------------|----------------------|--------------------|--------------------|----------------------|-----------------|----------------------|------------------|-----------------------|------------------|---------------------------------|
|                   |                      |                 | Nickel (Dissolved)   | Potassium (Dissolved) | Selenium (Dissolved) | Silver (Dissolved) | Sodium (Dissolved) | Thallium (Dissolved) | Tin (Dissolved) | Vanadium (Dissolved) | Zinc (Dissolved) | Alkalinity, Carbonate | Ammonia Nitrogen | Biochemical Oxygen Demand (BOD) |
| MDEQ GSI Criteria |                      |                 | 157.3 (G)            | --                    | 5                    | 0.2 (M); 0.06      | NA                 | 3.7 (X)              | --              | 27                   | 358.0 (G)        | --                    | (CC)             | --                              |
| MW-117S1          | 24.2 - 29.2          | 06/20/95        | 50 U                 | 5,000 U               | 5 UJ                 | 0.5 U              | 101,000            | 2 UJ                 | --              | 20 U                 | R                | --                    | --               | --                              |
| MW-117S1          | 24.2 - 29.2          | 07/14/95        | --                   | --                    | --                   | --                 | --                 | --                   | --              | --                   | --               | 20,000 U              | 1,000 UJ         | 10,000                          |
| MW-117S1          | 24.2 - 29.2          | 06/11/96        | 50 U                 | --                    | --                   | --                 | 108,000            | --                   | --              | --                   | 20 U             | --                    | --               | --                              |
| MW-117S1          | 24.2 - 29.2          | 05/19/00        | 40 U                 | 2,330 B               | 5 U                  | 5 U                | 120,000            | 5 B                  | --              | 50 U                 | 20 U             | --                    | 5,100            | --                              |
| MW-117S1          | 24.2 - 29.2          | 06/19/01        | 40 U                 | 2,270 BJ              | 5 U                  | 5 U                | 121,000            | 10 U                 | --              | 50 U                 | 12.3 B           | --                    | 11,000           | --                              |
| MW-117S1          | 24.2 - 29.2          | 06/26/02        | 40 U                 | 2,490 BJ              | 5 U                  | 5 U                | 114,000            | 10 UJ                | --              | 50 U                 | 20 U             | --                    | 7,100            | --                              |
| MW-117S1          | 24.2 - 29.2          | 06/19/03        | 40 U                 | 2,540 B               | 5 U                  | 5 U                | 118,000            | 10 U                 | --              | 50 U                 | 20 U             | --                    | 7,400            | --                              |
| MW-117S1          | 24.2 - 29.2          | 05/27/04        | 40 U                 | 2,330 J               | 5 U                  | 5 U                | 115,000            | 10 U                 | --              | 50 U                 | 20 U             | --                    | 7,300            | --                              |
| MW-117S1          | 24.2 - 29.2          | 06/23/05        | 2.3                  | 2,390 B               | 5.4                  | 0.5 U              | 118,000            | 0.39 B               | --              | 5 U                  | 54.7 J           | --                    | 8,400 J          | --                              |
| MW-117S1          | 24.2 - 29.2          | 12/13/06        | 20 U                 | 2,410                 | 5 U                  | R                  | 118,000            | 1 U                  | --              | 4 U                  | 20 U             | --                    | 8,200            | --                              |
| MW-117S1          | 24.2 - 29.2          | 12/07/07        | 20 U                 | 2,720 J               | 5 U                  | 0.2 U              | 129,000            | 1 U                  | --              | 4 U                  | 19.7 J           | --                    | 22,000           | --                              |
| MW-117S1          | 24.2 - 29.2          | 03/14/08        | 20 U                 | 2,480 J               | 5 U                  | 0.2 U              | 113,000            | 1 U                  | --              | 4 U                  | 20 U             | --                    | 1,200            | --                              |
| MW-117S1          | 24.2 - 29.2          | 10/01/10        | --                   | --                    | 5 U                  | --                 | 119,000            | --                   | --              | --                   | --               | --                    | 6,500            | --                              |
| MW-117S1          | 24.2 - 29.2          | 09/27/11        | --                   | --                    | 5 U                  | --                 | 120,000            | --                   | --              | --                   | --               | --                    | 8,400            | --                              |
| MW-117S1          | 24.2 - 29.2          | 09/13/12        | --                   | --                    | 5 U                  | --                 | 110,000            | --                   | --              | --                   | --               | --                    | 7,800            | --                              |
| MW-117S1          | 24.2 - 29.2          | 09/24/13        | --                   | --                    | 5 U                  | --                 | 120,000            | --                   | --              | --                   | --               | --                    | 7,000 B          | --                              |
| MW-117S1          | 24.2 - 29.2          | 09/22/14        | --                   | --                    | 0.29 J,B             | --                 | 120,000 B          | --                   | --              | --                   | --               | --                    | 7,800            | --                              |
| MW-117S1          | 24.2 - 29.2          | 09/30/15        | --                   | --                    | 0.52 J, B            | --                 | 110,000 B          | --                   | --              | --                   | --               | --                    | 6,500            | --                              |
| MW-117S1          | 24.2 - 29.2          | 09/27/16        | --                   | --                    | 0.57 J               | --                 | 120,000            | --                   | --              | --                   | --               | --                    | 10,000 B         | --                              |
| MW-117WT          | 3 - 13               | 06/20/95        | 50 U                 | 6,960                 | 5 UJ                 | 0.5 U              | 463,000            | 4 UJ                 | --              | 20 U                 | R                | --                    | --               | --                              |
| MW-117WT          | 3 - 13               | 07/14/95        | --                   | --                    | --                   | --                 | --                 | --                   | --              | --                   | --               | 20,000 U              | 30,000 J         | 29,000                          |
| MW-117WT          | 3 - 13               | 06/11/96        | 50 U                 | --                    | --                   | --                 | 499,000            | --                   | --              | --                   | 20 U             | --                    | --               | --                              |
| MW-117WT          | 3 - 13               | 05/19/00        | 23.3 B               | 41,300                | 5 U                  | 5 U                | 590,000            | 17.9                 | --              | 50 U                 | 20 U             | --                    | 46,000           | --                              |
| MW-117WT          | 3 - 13               | 06/18/01        | 18.2 B               | 39,800 J              | 5 U                  | 5 U                | 559,000            | 10 U                 | --              | 50 U                 | 20 U             | --                    | 63,000           | --                              |
| MW-117WT          | 3 - 13               | 06/26/02        | 18 B                 | 40,500 J              | 5 U                  | 5 U                | 539,000            | 8.9 BJ               | --              | 50 U                 | 20 U             | --                    | 63,000           | --                              |
| MW-117WT          | 3 - 13               | 06/19/03        | 19.7 B               | 47,000                | 5 U                  | 5 U                | 628,000            | 10 U                 | --              | 50 U                 | 20 U             | --                    | 63,000           | --                              |
| MW-117WT          | 3 - 13               | 12/09/04        | 33.5 J [29.1 J]      | --                    | 14 J [14.3 J]        | 0.5 U [0.5 UJ]     | --                 | 1 U [1 U]            | --              | 5 U [5 U]            | 54 U [55.8 UJ]   | --                    | 65,000 [69,000]  | --                              |
| MW-117WT          | 3 - 13               | 06/23/05        | 25.2                 | 42,800                | 16.1                 | 0.5 U              | 564,000            | 1 U                  | --              | 5 U                  | 70.4 J           | --                    | 59,000 J         | --                              |
| MW-117WT          | 3 - 13               | 12/13/06        | 18.7 J               | 44,700                | 5 U                  | R                  | 531,000            | 1 U                  | --              | 4 U                  | 20 U             | --                    | 75,000           | --                              |
| MW-117WT          | 3 - 13               | 12/07/07        | 50.8                 | 62,500 J              | 5 U                  | 0.2 U              | 620,000            | 1 U                  | --              | 4 U                  | 20 U             | --                    | 68,000           | --                              |
| MW-117WT          | 3 - 13               | 03/14/08        | 17.4 J               | 45,600 J              | 5 U                  | 0.2 U              | 545,000            | 1 U                  | --              | 4 U                  | 20 U             | --                    | 68,000           | --                              |
| MW-117WT          | 3 - 13               | 10/01/10        | --                   | --                    | 5 U                  | --                 | 604,000            | --                   | --              | --                   | --               | --                    | 64,000           | --                              |
| MW-117WT          | 3 - 13               | 09/27/11        | --                   | --                    | 5 U                  | --                 | 560,000            | --                   | --              | --                   | --               | --                    | 71,000           | --                              |
| MW-117WT          | 3 - 13               | 09/13/12        | --                   | --                    | 0.78 J               | --                 | 560,000 B          | --                   | --              | --                   | --               | --                    | 78,000           | --                              |
| MW-117WT          | 3 - 13               | 09/24/13        | --                   | --                    | 5 U                  | --                 | 570,000            | --                   | --              | --                   | --               | --                    | 86,000 B         | --                              |
| MW-117WT          | 3 - 13               | 09/23/14        | --                   | --                    | 0.59 J,B             | --                 | 520,000 B          | --                   | --              | --                   | --               | --                    | 3,000^           | --                              |
| MW-117WT          | 3 - 13               | 09/30/15        | --                   | --                    | 1.0 J B              | --                 | 450,000 B          | --                   | --              | --                   | --               | --                    | 60,000           | --                              |
| MW-117WT          | 3 - 13               | 09/27/16        | --                   | --                    | 1.5 J                | --                 | 470,000            | --                   | --              | --                   | --               | --                    | 81 B             | --                              |
| MW-117WT          | 3 - 13               | 10/13/16        | --                   | --                    | --                   | --                 | --                 | --                   | --              | --                   | --               | --                    | --               | --                              |
| MW-118S1          | 23.5 - 28.5          | 06/20/95        | 50 U                 | 5,000 U               | 5 UJ                 | 0.5 U              | 97,300             | 2 UJ                 | --              | 20 U                 | R                | --                    | --               | --                              |
| MW-118S1          | 23.5 - 28.5          | 07/14/95        | --                   | --                    | --                   | --                 | --                 | --                   | --              | --                   | --               | 20,000 U              | 4,800 J          | 7,000                           |
| MW-118S1          | 23.5 - 28.5          | 06/11/96        | 50 U                 | --                    | --                   | --                 | 112,000            | --                   | --              | --                   | 35.8 U           | --                    | --               | --                              |
| MW-118S1          | 23.5 - 28.5          | 05/17/00        | 40 U [40 U]          | 2,170 B [2,180 B]     | 5 U [5 U]            | 5 U [5 U]          | 121,000 [122,000]  | 8.1 B [5.4 B]        | --              | 50 U [50 U]          | 20 U [20 U]      | --                    | 5,900 [6,200]    | --                              |
| MW-118S1          | 23.5 - 28.5          | 06/19/01        | 40 U                 | 2,120 BJ              | 5 U                  | 5 U                | 117,000            | 10 U                 | --              | 50 U                 | 20 U             | --                    | 8,400            | --                              |
| MW-118S1          | 23.5 - 28.5          | 06/27/02        | 40 U                 | 2,380 BJ              | 5 U                  | 5 U                | 112,000            | 10 UJ                | --              | 50 U                 | 20 U             | --                    | 7,300            | --                              |
| MW-118S1          | 23.5 - 28.5          | 06/19/03        | 40 U                 | 2,510 B               | 5 U                  | 5 U                | 118,000            | 10 U                 | --              | 50 U                 | 20 U             | --                    | 6,200            | --                              |
| MW-118S1          | 23.5 - 28.5          | 12/09/04        | 3.1 UJ               | --                    | 5.9 J                | 0.5 UJ             | --                 | 1 U                  | --              | 5 U                  | 20.7 UJ          | --                    | 5,900            | --                              |
| MW-118S1          | 23.5 - 28.5          | 06/23/05        | 2.3                  | 2,520 BE              | 3.5                  | 0.5 U              | 112,000            | 1 U                  | --              | 5 U                  | 25.8 J           | --                    | 7,300 J          | --                              |
| MW-118S1          | 23.5 - 28.5          | 12/14/06        | 20 U                 | 2,400                 | 5 U                  | 0.2 UJ             | 115,000            | 1 U                  | --              | 4 U                  | 20 U             | --                    | 8,000            | --                              |
| MW-118S1          | 23.5 - 28.5          | 12/07/07        | 20 U                 | 2,970 J               | 5 U                  | 0.2 U              | 131,000            | 1 U                  | --              | 4 U                  | 20 U             | --                    | 8,500            | --                              |
| MW-118S1          | 23.5 - 28.5          | 04/01/08        | 20 U                 | 2,660                 | 5 U                  | 0.2 U              | 115,000            | 1 U                  | --              | 4 U                  | 20 U             | --                    | 8,100            | --                              |
| MW-118S1          | 23.5 - 28.5          | 10/01/10        | --                   | --                    | 5 U                  | --                 | 129,000            | --                   | --              | --                   | --               | --                    | 6,700            | --                              |
| MW-118S1          | 23.5 - 28.5          | 09/27/11        | --                   | --                    | 5 U                  | --                 | 130,000            | --                   | --              | --                   | --               | --                    | 7,900            | --                              |
| MW-118S1          | 23.5 - 28.5          | 09/13/12        | --                   | --                    | 5 U                  | --                 | 130,000            | --                   | --              | --                   | --               | --                    | 7,200            | --                              |
| MW-118S1          | 23.5 - 28.5          | 09/24/13        | --                   | --                    | 0.47 J               | --                 | 150,000 B          | --                   | --              | --                   | --               | --                    | 6,900 B          | --                              |
| MW-118S1          | 23.5 - 28.5          | 09/22/14        | --                   | --                    | 5 U                  | --                 | 130,000 B          | --                   | --              | --                   | --               | --                    | 7,500            | --                              |
| MW-118S1          | 23.5 - 28.5          | 09/30/15        | --                   | --                    | 0.58 J B             | --                 | 120,000 B          | --                   | --              | --                   | --               | --                    | 5,900            | --                              |
| MW-118S1          | 23.5 - 28.5          | 09/27/16        | --                   | --                    | 1.0 J                | --                 | 130,000            | --                   | --              | --                   | --               | --                    | 9,900 B          | --                              |

Table 2  
Analytical Data Summary Table - GPL Inorganics  
Saginaw, MI  
RACER Trust



|            |             | Sample Depth (feet): | Date Collected:   | Inorganics-Dissolved |                       |                      |                     |                    |                      |                 |                      | Miscellaneous    |                       |                  |                                 |      |    |
|------------|-------------|----------------------|-------------------|----------------------|-----------------------|----------------------|---------------------|--------------------|----------------------|-----------------|----------------------|------------------|-----------------------|------------------|---------------------------------|------|----|
|            |             |                      |                   | Nickel (Dissolved)   | Potassium (Dissolved) | Selenium (Dissolved) | Silver (Dissolved)  | Sodium (Dissolved) | Thallium (Dissolved) | Tin (Dissolved) | Vanadium (Dissolved) | Zinc (Dissolved) | Alkalinity, Carbonate | Ammonia Nitrogen | Biochemical Oxygen Demand (BOD) |      |    |
| Sample ID: |             |                      | MDEQ GSI Criteria |                      |                       | 157.3 (G)            | --                  | 5                  | 0.2 (M); 0.06        | NA              | 3.7 (X)              | --               | 27                    | 358.0 (G)        | --                              | (CC) | -- |
| MW-118WT   | 1.6 - 11.6  | 06/20/95             | 50 U              | 5,000 U              | 5 UJ                  | 0.5 U                | 175,000             | 2 UJ               | --                   | 20 U            | R                    | --               | --                    | --               | --                              | --   |    |
| MW-118WT   | 1.6 - 11.6  | 07/14/95             | --                | --                   | --                    | --                   | --                  | --                 | --                   | --              | --                   | 20,000 U         | 10,000 J              | 4,000 J          | --                              | --   |    |
| MW-118WT   | 1.6 - 11.6  | 06/11/96             | 50 U              | --                   | --                    | --                   | 229,000             | --                 | --                   | --              | 22.3 U               | --               | --                    | --               | --                              | --   |    |
| MW-118WT   | 1.6 - 11.6  | 05/17/00             | 17.7 B            | 16,800               | 5 U                   | 5 U                  | 647,000             | 26.8               | --                   | 50 U            | 17.8 B               | --               | 26,000                | --               | --                              | --   |    |
| MW-118WT   | 1.6 - 11.6  | 06/19/01             | 23.5 B [24.4 B]   | 30,700 J [32,400 J]  | 5 U [5 U]             | 5 U [5 U]            | 955,000 [976,000]   | 10 U [6.5 B]       | --                   | 50 U [50 U]     | 20 U [20 U]          | --               | 92,000 [76,000]       | --               | --                              | --   |    |
| MW-118WT   | 1.6 - 11.6  | 06/27/02             | 29 B [31.1 B]     | 40,000 J [43,400 J]  | 5 U [5 U]             | 5 U [5 U]            | 925,000 [970,000]   | 18.8 J [7.8 BJ]    | --                   | 50 U [50 U]     | 20 U [20 U]          | --               | 82,000 [88,000]       | --               | --                              | --   |    |
| MW-118WT   | 1.6 - 11.6  | 06/19/03             | 36.2 B [34.8 B]   | 37,200 [35,200]      | 5 U [5 U]             | 5 U [5 U]            | 764,000 [735,000]   | 10 U [10 U]        | --                   | 50 U [50 U]     | 20 U [20 U]          | --               | 66,000 [65,000]       | --               | --                              | --   |    |
| MW-118WT   | 1.6 - 11.6  | 05/27/04             | 39                | 33,900 J             | 5 U                   | 5 U                  | 662,000             | 10 U               | --                   | 1.5             | 20 U                 | --               | 66,000                | --               | --                              | --   |    |
| MW-118WT   | 1.6 - 11.6  | 06/23/05             | 43.4              | 29,400               | 16.3                  | 0.5 U                | 541,000             | 0.089 B            | --                   | 5 U             | 67.3 J               | --               | 47,000 J              | --               | --                              | --   |    |
| MW-118WT   | 1.6 - 11.6  | 12/14/06             | 25.3              | 19,200               | 5 U                   | 0.2 UJ               | 408,000             | 1 U                | --                   | 4 U             | 20 U                 | --               | 42,000                | --               | --                              | --   |    |
| MW-118WT   | 1.6 - 11.6  | 12/07/07             | 20.1              | 23,500 J             | 5 U                   | 0.2 U                | 406,000             | 1 U                | --                   | 4 U             | 20 U                 | --               | 42,000                | --               | --                              | --   |    |
| MW-118WT   | 1.6 - 11.6  | 04/01/08             | 17.6 J            | 18,400               | 5 U                   | 0.13 J               | 334,000             | 0.18 J             | --                   | 4 U             | 20 U                 | --               | 38,000                | --               | --                              | --   |    |
| MW-118WT   | 1.6 - 11.6  | 09/30/10             | --                | --                   | 5 U                   | --                   | 216,000             | --                 | --                   | --              | --                   | --               | 34,000                | --               | --                              | --   |    |
| MW-118WT   | 1.6 - 11.6  | 09/27/11             | --                | --                   | 5 U                   | --                   | 200,000             | --                 | --                   | --              | --                   | --               | 38,000                | --               | --                              | --   |    |
| MW-118WT   | 1.6 - 11.6  | 09/13/12             | --                | --                   | 5 U                   | --                   | 140,000             | --                 | --                   | --              | --                   | --               | 35,000                | --               | --                              | --   |    |
| MW-118WT   | 1.6 - 11.6  | 09/24/13             | --                | --                   | 5 U                   | --                   | 120,000 B           | --                 | --                   | --              | --                   | --               | 35,000 B              | --               | --                              | --   |    |
| MW-118WT   | 1.6 - 11.6  | 09/22/14             | --                | --                   | 0.27 J,B              | --                   | 86,000 B            | --                 | --                   | --              | --                   | --               | 29,000                | --               | --                              | --   |    |
| MW-118WT   | 1.6 - 11.6  | 09/30/15             | --                | --                   | 1.6 J,B               | --                   | 70,000 B            | --                 | --                   | --              | --                   | --               | 24,000                | --               | --                              | --   |    |
| MW-118WT   | 1.6 - 11.6  | 09/27/16             | --                | --                   | 1.0 J                 | --                   | 82,000              | --                 | --                   | --              | --                   | --               | 37,00 B               | --               | --                              | --   |    |
| MW-183WT   | 6 - 16      | 12/06/07             | --                | --                   | --                    | --                   | --                  | --                 | --                   | --              | --                   | --               | --                    | --               | --                              | --   |    |
| MW-183WT   | 6 - 16      | 01/09/08             | 20 U [20 U]       | 479 J [501 J]        | 5 U [5 U]             | 0.2 U [0.2 U]        | 102,000 [98,000]    | 1 U [1 U]          | --                   | 4 U [4 U]       | 20 U [20 U]          | --               | 400 [300]             | --               | --                              | --   |    |
| MW-183WT   | 6 - 16      | 03/12/08             | 20 U              | 1,000 U              | 5 U                   | 0.2 U                | 100,000             | 1 U                | --                   | 4 U             | 71.5 J               | --               | 300                   | --               | --                              | --   |    |
| MW-183WT   | 6 - 16      | 09/28/10             | --                | --                   | 5.0 U [5.0 U]         | --                   | 87.4 [85.6]         | --                 | --                   | --              | --                   | --               | 800 J [800 J]         | --               | --                              | --   |    |
| MW-183WT   | 6 - 16      | 09/28/11             | --                | --                   | 5.0 U                 | --                   | 94,000              | --                 | --                   | --              | --                   | --               | 530 [550]             | --               | --                              | --   |    |
| MW-183WT   | 6 - 16      | 09/14/12             | --                | --                   | 0.78 J                | --                   | 93,000              | --                 | --                   | --              | --                   | --               | 920 [1,100]           | --               | --                              | --   |    |
| MW-183WT   | 6 - 16      | 09/24/13             | --                | --                   | 5.0 U                 | --                   | 100,000 B           | --                 | --                   | --              | --                   | --               | 1,100 B [800 B]       | --               | --                              | --   |    |
| MW-183WT   | 6 - 16      | 09/23/14             | --                | --                   | 0.27 J,B [5.0 U]      | --                   | 47,000 B [47,000 B] | --                 | --                   | --              | --                   | --               | 200 U [140 J]         | --               | --                              | --   |    |
| MW-183WT   | 6 - 16      | 10/01/15             | --                | --                   | 0.72 J,B              | --                   | 52,000              | --                 | --                   | --              | --                   | --               | 750 [840]             | --               | --                              | --   |    |
| MW-183WT   | 6 - 16      | 09/28/16             | --                | --                   | 1.5 J                 | --                   | 50,000              | --                 | --                   | --              | --                   | --               | 940 J,B               | --               | --                              | --   |    |
| TWW-1      | 1.5 - 6.5   | 01/25/97             | 50 U              | 5,000 UL             | 5 U                   | 0.5 U                | 858,000             | 20 UG              | --                   | 20 U            | 166                  | --               | --                    | --               | --                              | --   |    |
| TWW-1      | 1.5 - 6.5   | 05/21/00             | 40 U              | 2,210 BJ             | 5 U                   | 5 U                  | 845,000             | 6.3 B              | --                   | 20 U            | 20 U                 | --               | --                    | --               | --                              | --   |    |
| TWW-1      | 1.5 - 6.5   | 05/29/08             | --                | --                   | --                    | --                   | --                  | --                 | --                   | --              | --                   | --               | 200                   | --               | --                              | --   |    |
| TWW-1      | 1.5 - 6.5   | 09/27/16             | --                | --                   | --                    | --                   | --                  | --                 | --                   | --              | --                   | --               | --                    | --               | --                              | --   |    |
| TWW-1      | 1.5 - 6.5   | 09/27/16             | --                | --                   | --                    | --                   | --                  | --                 | --                   | --              | --                   | --               | --                    | --               | --                              | --   |    |
| X-10BR     | 26.3 - 31.3 | 07/24/95             | 50 U              | 5,000 U              | 5 U                   | 0.5 UJ               | 149,000             | 2 UJ               | --                   | 20 U            | 20 U                 | --               | --                    | --               | --                              | --   |    |
| X-10BR     | 26.3 - 31.3 | 12/15/06             | 20 U              | 2,530                | 5 U                   | 0.2 UJ               | 192,000             | 1 U                | --                   | 4 U             | 20 U                 | --               | 6,000                 | --               | --                              | --   |    |
| X-10BR     | 26.3 - 31.3 | 12/04/07             | 20 U              | 2,620 J              | 5 U                   | 0.2 U                | 198,000             | 1 U                | --                   | 4 U             | 20 U                 | --               | 4,500                 | --               | --                              | --   |    |
| X-10BR     | 26.3 - 31.3 | 03/12/08             | 20 U              | 2,480                | 5 U                   | 0.2 U                | 186,000             | 1 U                | --                   | 4 U             | 20 U                 | --               | 4,000                 | --               | --                              | --   |    |
| X-10BR     | 26.3 - 31.3 | 09/29/10             | --                | --                   | 5 U                   | --                   | 187,000             | --                 | --                   | --              | --                   | --               | 4,800                 | --               | --                              | --   |    |
| X-10BR     | 26.3 - 31.3 | 09/22/11             | --                | --                   | 5 U                   | --                   | 190,000             | --                 | --                   | --              | --                   | --               | 6,000                 | --               | --                              | --   |    |
| X-10BR     | 26.3 - 31.3 | 09/14/12             | --                | --                   | 5 U                   | --                   | 200,000             | --                 | --                   | --              | --                   | --               | 7,900                 | --               | --                              | --   |    |
| X-10BR     | 26.3 - 31.3 | 09/24/13             | --                | --                   | 5 U                   | --                   | 200,000             | --                 | --                   | --              | --                   | --               | 9,100 B               | --               | --                              | --   |    |
| X-4AR      | 3.3 - 8.3   | 07/24/95             | 50 U              | 5,000 U              | 5 U                   | 0.5 UJ               | 18,100              | 2 U                | --                   | 20 U            | 341                  | --               | --                    | --               | --                              | --   |    |
| X-4AR      | 3.3 - 8.3   | 06/09/96             | 50 U              | 5,000 U              | 5 U                   | 0.5 U                | 22,900              | 2 UJ               | --                   | 20 U            | 70.6 U               | --               | --                    | --               | --                              | --   |    |
| X-4AR      | 3.3 - 8.3   | 05/21/00             | 40 U              | 1,740 BJ             | 5 U                   | 5 U                  | 20,900              | 4.6 B              | --                   | 20 U            | 20 U                 | --               | --                    | --               | --                              | --   |    |
| X-4AR      | 3.3 - 8.3   | 06/03/04             | --                | --                   | --                    | --                   | --                  | --                 | --                   | --              | --                   | --               | --                    | --               | --                              | --   |    |
| X-4CAUG    | 18 - 23     | 07/24/95             | 50 U              | 5,000 U              | 5 U                   | 0.5 UJ               | 65,400              | 2 UJ               | --                   | 20 U            | 20                   | --               | --                    | --               | --                              | --   |    |
| X-4CAUG    | 18 - 23     | 06/08/96             | 50 U              | 5,000 U              | 5 U                   | 0.5 U                | 79,100              | 4 UJ               | --                   | 20 U            | 20 UJ                | --               | --                    | --               | --                              | --   |    |
| X-4CAUGR   | 14 - 19     | 01/09/08             | 20 U              | 605 J                | 5 U                   | 0.2 U                | 79,600              | 1 U                | --                   | 4 U             | 20 U                 | --               | 1,500                 | --               | --                              | --   |    |
| X-4CAUGR   | 14 - 19     | 03/12/08             | 20 U              | 1,000 U              | 5 U                   | 0.2 U                | 58,000              | 1 U                | --                   | 4 U             | 20 U                 | --               | 2,000                 | --               | --                              | --   |    |
| X-4CAUGR   | 14 - 19     | 09/28/10             | --                | --                   | 5 U                   | --                   | 52,300              | --                 | --                   | --              | --                   | --               | 1,900 J               | --               | --                              | --   |    |
| X-4CAUGR   | 14 - 19     | 09/26/11             | --                | --                   | 5 U                   | --                   | 41,000              | --                 | --                   | --              | --                   | --               | 1,800                 | --               | --                              | --   |    |
| X-4CAUGR   | 14 - 19     | 09/14/12             | --                | --                   | 5 U                   | --                   | 54,000              | --                 | --                   | --              | --                   | --               | 1,900                 | --               | --                              | --   |    |
| X-4CAUGR   | 14 - 19     | 09/24/13             | --                | --                   | 5 U                   | --                   | 26,000 B            | --                 | --                   | --              | --                   | --               | 2,900 B               | --               | --                              | --   |    |
| X-4CAUGR   | 14 - 19     | 09/23/14             | --                | --                   | 5 U                   | --                   | 60,000 B            | --                 | --                   | --              | --                   | --               | 1,600                 | --               | --                              | --   |    |
| X-4CAUGR   | 14 - 19     | 09/30/15             | --                | --                   | 0.35 J                | --                   | 75,000 B            | --                 | --                   | --              | --                   | --               | --                    | --               | --                              | --   |    |
| X-4CAUGR   | 14 - 19     | 09/28/16             | --                | --                   | 5.0 U                 | --                   | 74,000              | --                 | --                   | --              | --                   | --               | 1,100 B               | --               | --                              | --   |    |

Table 2  
Analytical Data Summary Table - GPL Inorganics  
Saginaw, MI  
RACER Trust

| Sample ID:        | Sample Depth (feet): | Date Collected: | Inorganics-Dissolved |                       |                      |                    |                    |                      |                 |                      |                  | Miscellaneous         |                  |                                 |
|-------------------|----------------------|-----------------|----------------------|-----------------------|----------------------|--------------------|--------------------|----------------------|-----------------|----------------------|------------------|-----------------------|------------------|---------------------------------|
|                   |                      |                 | Nickel (Dissolved)   | Potassium (Dissolved) | Selenium (Dissolved) | Silver (Dissolved) | Sodium (Dissolved) | Thallium (Dissolved) | Tin (Dissolved) | Vanadium (Dissolved) | Zinc (Dissolved) | Alkalinity, Carbonate | Ammonia Nitrogen | Biochemical Oxygen Demand (BOD) |
| MDEQ GSI Criteria |                      |                 | 157.3 (G)            | --                    | 5                    | 0.2 (M); 0.06      | NA                 | 3.7 (X)              | --              | 27                   | 358.0 (G)        | --                    | (CC)             | --                              |
| X-4D              | 40 - 45              | 01/09/08        | 20 U                 | 8,080                 | 5 U                  | 0.2 U              | 718,000            | 1 U                  | --              | 4 U                  | 20 U             | --                    | 6,900            | --                              |
| X-4D              | 40 - 45              | 04/01/08        | 20 U [20 U]          | 8,060 [7,970]         | 5 U [5 U]            | 0.2 U [0.2 U]      | 726,000 [708,000]  | 1 U [1 U]            | --              | 4 U [4 U]            | 20 U [20 U]      | --                    | 8,800 [8,100]    | --                              |
| X-4D              | 40 - 45              | 04/03/08        | --                   | --                    | --                   | --                 | --                 | --                   | --              | --                   | --               | --                    | --               | --                              |
| X-4D              | 40 - 45              | 06/05/08        | --                   | --                    | --                   | --                 | --                 | --                   | --              | --                   | --               | --                    | 6,200 [7,320]    | --                              |
| X-4D              | 40 - 45              | 09/28/10        | --                   | --                    | 5 U                  | --                 | 708,000            | --                   | --              | --                   | --               | --                    | 6,800 J          | --                              |
| X-4D              | 40 - 45              | 09/26/11        | --                   | --                    | 5 U                  | --                 | 700,000            | --                   | --              | --                   | --               | --                    | 9,700            | --                              |
| X-4D              | 40 - 45              | 09/14/12        | --                   | --                    | 5 U                  | --                 | 690,000            | --                   | --              | --                   | --               | --                    | 8,300            | --                              |
| X-4D              | 40 - 45              | 09/24/13        | --                   | --                    | 5 U                  | --                 | 680,000 B          | --                   | --              | --                   | --               | --                    | 8,800 B          | --                              |
| X-4D              | 40 - 45              | 09/23/14        | --                   | --                    | 0.31 J,B             | --                 | 550,000 B          | --                   | --              | --                   | --               | --                    | 200 U            | --                              |
| X-4D              | 40 - 45              | 09/30/15        | --                   | --                    | 1.8 J,B              | --                 | 620,000            | --                   | --              | --                   | --               | --                    | 3,600            | --                              |
| X-4D              | 40 - 45              | 09/28/16        | --                   | --                    | 5.0 U                | --                 | 630,000            | --                   | --              | --                   | --               | --                    | 6,200 B          | --                              |
| X-9AR             | 3 - 13               | 07/24/95        | 50 U                 | 5,000 U               | 5 U                  | 0.5 UJ             | 37,600             | 2 UJ                 | --              | 20 U                 | 51               | --                    | --               | --                              |
| X-9AR             | 3 - 13               | 06/09/96        | 50 U                 | 5,000 U               | 5 U                  | 0.5 U              | 57,000             | 4 UJ                 | --              | 20 U                 | 35.5 U           | --                    | --               | --                              |
| X-9AR             | 3 - 13               | 12/15/06        | 20 U                 | 1,000 U               | 5 U                  | 0.2 UJ             | 54,500             | 1 U                  | --              | 4 U                  | 20 U             | --                    | 200 U            | --                              |
| X-9AR             | 3 - 13               | 01/10/08        | 20 U                 | 137 J                 | 5 U                  | 0.2 U              | 60,500             | 1 U                  | --              | 4 U                  | 20 U             | --                    | 300              | --                              |
| X-9AR             | 3 - 13               | 03/11/08        | 20 U                 | 1,000 U               | 9.8                  | 0.2 U              | 33,600             | 1 U                  | --              | 4 U                  | 20 U             | --                    | 200 U            | --                              |
| X-9AR             | 3 - 13               | 06/05/08        | --                   | --                    | 5 U [5 U]            | --                 | --                 | --                   | --              | --                   | --               | --                    | --               | --                              |
| X-9AR             | 3 - 13               | 09/29/10        | --                   | --                    | 5 U                  | --                 | 56,400             | --                   | --              | --                   | --               | --                    | 600              | --                              |
| X-9AR             | 3 - 13               | 09/23/11        | --                   | --                    | 5 U                  | --                 | 91,000             | --                   | --              | --                   | --               | --                    | 4,300            | --                              |
| X-9AR             | 3 - 13               | 09/12/12        | --                   | --                    | 5 U                  | --                 | 120,000            | --                   | --              | --                   | --               | --                    | 5,000            | --                              |
| X-9AR             | 3 - 13               | 09/25/13        | --                   | --                    | 5 U                  | --                 | 110,000 B          | --                   | --              | --                   | --               | --                    | 6,200 B          | --                              |
| X-9AR             | 3 - 13               | 09/22/14        | --                   | --                    | 0.25 J               | --                 | 63,000 B           | --                   | --              | --                   | --               | --                    | 3,700^           | --                              |
| X-9AR             | 3 - 13               | 10/01/15        | --                   | --                    | 0.50 J,B             | --                 | 37,000 B           | --                   | --              | --                   | --               | --                    | 720              | --                              |
| X-9AR             | 3 - 13               | 09/28/16        | --                   | --                    | 0.67 J               | --                 | 38,000             | --                   | --              | --                   | --               | --                    | 560 B            | --                              |
| X-9BR             | 26 - 31              | 07/24/95        | 50 U                 | 5,000 U               | 5 U                  | 0.5 UJ             | 64,000             | 2 UJ                 | --              | 20 U                 | 25               | --                    | --               | --                              |
| X-9BR             | 26 - 31              | 06/08/96        | 50 U                 | 5,000 U               | 5 U                  | 0.5 U              | 48,800             | 4 UJ                 | --              | 20 U                 | 20 UJ            | --                    | --               | --                              |
| X-9BR             | 26 - 31              | 12/15/06        | 20 U                 | 1,480                 | 5.7 U                | 0.2 UJ             | 125,000            | 1 U                  | --              | 4 U                  | 20 U             | --                    | 5,900            | --                              |
| X-9BR             | 26 - 31              | 01/08/08        | 20 U                 | 1,060                 | 5 U                  | 0.2 U              | 81,500             | 1 U                  | --              | 4 U                  | 20 U             | --                    | 5,200            | --                              |
| X-9BR             | 26 - 31              | 03/11/08        | 20 U                 | 1,290                 | 5 U                  | 0.2 U              | 84,500             | 1 U                  | --              | 4 U                  | 20 U             | --                    | 5,000            | --                              |
| X-9BR             | 26 - 31              | 09/28/10        | --                   | --                    | 5 U                  | --                 | 145,000            | --                   | --              | --                   | --               | --                    | 2,900 J          | --                              |
| X-9BR             | 26 - 31              | 09/23/11        | --                   | --                    | 5 U                  | --                 | 140,000            | --                   | --              | --                   | --               | --                    | 6,700            | --                              |
| X-9BR             | 26 - 31              | 09/12/12        | --                   | --                    | 5 U                  | --                 | 190,000            | --                   | --              | --                   | --               | --                    | 7,300            | --                              |
| X-9BR             | 26 - 31              | 09/25/13        | --                   | --                    | 5 U                  | --                 | 210,000 B          | --                   | --              | --                   | --               | --                    | 9,400 B          | --                              |
| X-9BR             | 26 - 31              | 09/22/14        | --                   | --                    | 0.39 J               | --                 | 220,000 B          | --                   | --              | --                   | --               | --                    | 9,900            | --                              |
| X-9BR             | 26 - 31              | 10/01/15        | --                   | --                    | 0.76 J,B             | --                 | 210,000 B          | --                   | --              | --                   | --               | --                    | 12,000           | --                              |
| X-9BR             | 26 - 31              | 09/28/16        | --                   | --                    | 0.70 J               | --                 | 240,000            | --                   | --              | --                   | --               | --                    | 6,800 B          | --                              |
| X-9CAUG           | 20 - 25              | 07/24/95        | 50 U                 | 5,000 U               | 5 U                  | 0.5 U              | 47,200             | 2 U                  | --              | 20 U                 | 20 U             | --                    | --               | --                              |
| X-9CAUG           | 20 - 25              | 06/08/96        | 50 U                 | 5,000 U               | 5 U                  | 0.5 U              | 47,000             | 2 UJ                 | --              | 20 U                 | 20 U             | --                    | --               | --                              |
| X-9CAUG           | 20 - 25              | 12/15/06        | 20 U                 | 755 J                 | 5 U                  | 0.2 UJ             | 58,200             | 1 U                  | --              | 4 U                  | 20 U             | --                    | 2,900            | --                              |
| X-9CAUG           | 20 - 25              | 01/08/08        | 20 U                 | 38,000                | 5 U                  | 0.2 U              | 68,600             | 1 U                  | --              | 4 U                  | 8 J              | --                    | 3,200            | --                              |
| X-9CAUG           | 20 - 25              | 03/11/08        | 20 U                 | 3,370                 | 5 U                  | 0.2 U              | 62,000             | 1 U                  | --              | 4 U                  | 5.8 J            | --                    | 3,300            | --                              |
| X-9CAUG           | 20 - 25              | 09/28/10        | --                   | --                    | 5 U                  | --                 | 101,000            | --                   | --              | --                   | --               | --                    | 4,400 J          | --                              |
| X-9CAUG           | 20 - 25              | 09/23/11        | --                   | --                    | 5 U                  | --                 | 55,000             | --                   | --              | --                   | --               | --                    | 550              | --                              |
| X-9CAUG           | 20 - 25              | 09/12/12        | --                   | --                    | 5 U                  | --                 | 48,000             | --                   | --              | --                   | --               | --                    | 690              | --                              |
| X-9CAUG           | 20 - 25              | 09/25/13        | --                   | --                    | 5 U                  | --                 | 47,000 B           | --                   | --              | --                   | --               | --                    | 430 B            | --                              |
| X-9CAUG           | 20 - 25              | 09/22/14        | --                   | --                    | 0.42 J,B             | --                 | 38,000 B           | --                   | --              | --                   | --               | --                    | 120 J            | --                              |
| X-9CAUG           | 20 - 25              | 09/30/15        | --                   | --                    | 0.43 J               | --                 | 73,000 B           | --                   | --              | --                   | --               | --                    | 7,800            | --                              |
| X-9CAUG           | 20 - 25              | 09/28/16        | --                   | --                    | 0.57 J               | --                 | 110,000            | --                   | --              | --                   | --               | --                    | 4,400 B          | --                              |
| X-9D              | 42.5 - 47.5          | 01/08/08        | 20 U                 | 7,390                 | 5 U                  | 0.2 U              | 634,000            | 1 U                  | --              | 4 U                  | 20 U             | --                    | 8,500            | --                              |
| X-9D              | 42.5 - 47.5          | 03/11/08        | 20 U                 | 7,110                 | 5 U                  | 0.2 U              | 678,000            | 1 U                  | --              | 4 U                  | 20 U             | --                    | 9,700            | --                              |
| X-9D              | 42.5 - 47.5          | 03/12/08        | --                   | --                    | --                   | --                 | --                 | --                   | --              | --                   | --               | --                    | --               | --                              |
| X-9D              | 42.5 - 47.5          | 06/05/08        | --                   | --                    | --                   | --                 | --                 | --                   | --              | --                   | --               | --                    | 5,900            | --                              |
| X-9D              | 42.5 - 47.5          | 09/28/10        | --                   | --                    | 5 U                  | --                 | 679,000            | --                   | --              | --                   | --               | --                    | 7,400 J          | --                              |
| X-9D              | 42.5 - 47.5          | 09/23/11        | --                   | --                    | 5 U                  | --                 | 650,000            | --                   | --              | --                   | --               | --                    | 8,600            | --                              |
| X-9D              | 42.5 - 47.5          | 09/12/12        | --                   | --                    | 5 U                  | --                 | 680,000            | --                   | --              | --                   | --               | --                    | 7,700            | --                              |
| X-9D              | 42.5 - 47.5          | 09/25/13        | --                   | --                    | 5 U                  | --                 | 690,000 B          | --                   | --              | --                   | --               | --                    | 7,400 B          | --                              |
| X-9D              | 42.5 - 47.5          | 09/22/14        | --                   | --                    | 0.50 J               | --                 | 640,000 B          | --                   | --              | --                   | --               | --                    | 7,500            | --                              |
| X-9D              | 42.5 - 47.5          | 09/30/15        | --                   | --                    | 0.66 J               | --                 | 640,000 B          | --                   | --              | --                   | --               | --                    | 7,500 F1         | --                              |
| X-9D              | 42.5 - 47.5          | 09/28/16        | --                   | --                    | 0.70 J               | --                 | 630,000 B          | --                   | --              | --                   | --               | --                    | 6,700 B          | --                              |

Table 2  
Analytical Data Summary Table - GPL Inorganics  
Saginaw, MI  
RACER Trust

| Sample ID:        | Sample Depth (feet): | Date Collected: | Miscellaneous                |                           |                              |              |           |       |           |                     |                     |          |           |                   |            |
|-------------------|----------------------|-----------------|------------------------------|---------------------------|------------------------------|--------------|-----------|-------|-----------|---------------------|---------------------|----------|-----------|-------------------|------------|
|                   |                      |                 | Chemical Oxygen Demand (COD) | Chloride                  | Estimated Un-ionized Ammonia | Ferrous Iron | Hardness  | Iron  | Manganese | Nitrate (as N)      | Nitrite (as N)      | Nitrogen | pH        | Phenolics (Total) | Phosphorus |
| MDEQ GSI Criteria |                      |                 | --                           | --                        |                              | --           | --        | --    | --        | --                  | --                  | --       | --        | --                | 1,000      |
| MW-117S1          | 24.2 - 29.2          | 06/20/95        | --                           | --                        | --                           | --           | --        | --    | --        | --                  | --                  | --       | --        | --                | --         |
| MW-117S1          | 24.2 - 29.2          | 07/14/95        | 73,000                       | 230,000                   | 72 UJ                        | --           | 650,000   | --    | --        | --                  | --                  | --       | --        | 25                | 200        |
| MW-117S1          | 24.2 - 29.2          | 06/11/96        | --                           | --                        | --                           | --           | --        | --    | --        | --                  | --                  | --       | --        | --                | --         |
| MW-117S1          | 24.2 - 29.2          | 05/19/00        | --                           | 284,000 J                 | 367.2                        | --           | --        | --    | --        | 1,000 UG            | 1,000 UG            | --       | 7         | --                | --         |
| MW-117S1          | 24.2 - 29.2          | 06/19/01        | --                           | 269,000                   | 792                          | --           | --        | --    | --        | 500 U               | R                   | --       | 8         | --                | --         |
| MW-117S1          | 24.2 - 29.2          | 06/26/02        | --                           | 270,000                   | 511.2                        | --           | --        | --    | --        | 500 U               | 500 U               | --       | 8         | --                | --         |
| MW-117S1          | 24.2 - 29.2          | 06/19/03        | --                           | 264,000                   | 532.8                        | --           | --        | --    | --        | 500 U               | 140 BJ              | --       | 8.1       | --                | --         |
| MW-117S1          | 24.2 - 29.2          | 05/27/04        | --                           | 275,000                   | 525.6                        | --           | --        | --    | --        | 500 U               | 160 B               | --       | 7         | --                | --         |
| MW-117S1          | 24.2 - 29.2          | 06/23/05        | --                           | 270,000                   | 604.8 J                      | --           | --        | --    | --        | 100 U               | 100 U               | --       | 7         | --                | --         |
| MW-117S1          | 24.2 - 29.2          | 12/13/06        | --                           | 267,000                   | 590.4                        | --           | --        | --    | --        | 100 U               | 100 U               | --       | 7.1 J     | --                | --         |
| MW-117S1          | 24.2 - 29.2          | 12/07/07        | --                           | 268,000                   | 1,584                        | --           | --        | --    | --        | 100 U               | 100 U               | --       | 7         | --                | --         |
| MW-117S1          | 24.2 - 29.2          | 03/14/08        | --                           | 274,000                   | 86.4                         | --           | --        | --    | --        | 100 UJ              | 100 UJ              | --       | 6.9       | --                | --         |
| MW-117S1          | 24.2 - 29.2          | 10/01/10        | --                           | 319,000                   | --                           | --           | --        | --    | --        | 100 U               | 100 U               | --       | 7         | --                | --         |
| MW-117S1          | 24.2 - 29.2          | 09/27/11        | --                           | 270,000                   | --                           | --           | --        | --    | --        | 100 U               | 100 U               | --       | 7.14      | --                | --         |
| MW-117S1          | 24.2 - 29.2          | 09/13/12        | --                           | 270,000                   | --                           | --           | --        | --    | --        | 100 U               | 100 U               | --       | 6.99      | --                | --         |
| MW-117S1          | 24.2 - 29.2          | 09/24/13        | --                           | 250,000                   | --                           | --           | --        | --    | --        | 100 U               | 100 U               | --       | 7.15      | --                | --         |
| MW-117S1          | 24.2 - 29.2          | 09/22/14        | --                           | 260,000                   | --                           | --           | --        | --    | --        | 100 U , H           | 100 U, H            | --       | 7.07      | --                | --         |
| MW-117S1          | 24.2 - 29.2          | 09/30/15        | --                           | 240,000                   | --                           | --           | --        | --    | --        | 500 U               | 500 U               | --       | 6.78 HF   | --                | --         |
| MW-117S1          | 24.2 - 29.2          | 09/27/16        | --                           | 250,000                   | --                           | --           | --        | --    | --        | 50 U                | 50 U                | --       | 7.0 HF    | --                | --         |
| MW-117WT          | 3 - 13               | 06/20/95        | --                           | --                        | --                           | --           | --        | --    | --        | --                  | --                  | --       | --        | --                | --         |
| MW-117WT          | 3 - 13               | 07/14/95        | 520,000                      | 4,600,000                 | 2,160 J                      | --           | 6,200,000 | --    | --        | --                  | --                  | --       | --        | 44                | 100 U      |
| MW-117WT          | 3 - 13               | 06/11/96        | --                           | --                        | --                           | --           | --        | --    | --        | --                  | --                  | --       | --        | --                | --         |
| MW-117WT          | 3 - 13               | 05/19/00        | --                           | 4,930,000 J               | 3,312                        | --           | --        | --    | --        | 12,500 UG           | 12,500 UG           | --       | 6.4       | --                | --         |
| MW-117WT          | 3 - 13               | 06/18/01        | --                           | 5,380,000                 | 4,536                        | --           | --        | --    | --        | 500 U               | R                   | --       | 7.1       | --                | --         |
| MW-117WT          | 3 - 13               | 06/26/02        | --                           | 5,540,000                 | 4,536                        | --           | --        | --    | --        | 1,000 U             | 25,000 U            | --       | 7.2       | --                | --         |
| MW-117WT          | 3 - 13               | 06/19/03        | --                           | 4,680,000                 | 4,536                        | --           | --        | --    | --        | 1,000 U             | 25,000 U            | --       | 7.1       | --                | --         |
| MW-117WT          | 3 - 13               | 12/09/04        | --                           | 4,650,000 J [4,420,000 J] | 4,680 [4,968]                | --           | --        | --    | --        | 100 U [100 U]       | 1,000 UG [1,000 UG] | --       | 7.2 [7.2] | --                | --         |
| MW-117WT          | 3 - 13               | 06/23/05        | --                           | 3,970,000                 | 4,248 J                      | --           | --        | --    | --        | 100 U               | 2,000 U             | --       | 6.4       | --                | --         |
| MW-117WT          | 3 - 13               | 12/13/06        | --                           | 3,680,000                 | 5,400                        | --           | --        | --    | --        | 750                 | 3,600               | --       | 6.5 J     | --                | --         |
| MW-117WT          | 3 - 13               | 12/07/07        | --                           | 3,690,000                 | 4,896                        | --           | --        | --    | --        | 100 U               | 100 U               | --       | 6.4       | --                | --         |
| MW-117WT          | 3 - 13               | 03/14/08        | --                           | 3,220,000                 | 4,896                        | --           | --        | --    | --        | 200 UJ              | 200 UJ              | --       | 6.3       | --                | --         |
| MW-117WT          | 3 - 13               | 10/01/10        | --                           | 5,210,000                 | --                           | --           | --        | --    | --        | 100 U               | 5,000 U, G          | --       | 6.5       | --                | --         |
| MW-117WT          | 3 - 13               | 09/27/11        | --                           | 4,300,000                 | --                           | --           | --        | --    | --        | 100 U               | 2,500 U             | --       | 6.57      | --                | --         |
| MW-117WT          | 3 - 13               | 09/13/12        | --                           | 4,600,000                 | --                           | --           | --        | --    | --        | 100 U               | 5,000 U             | --       | 6.43      | --                | --         |
| MW-117WT          | 3 - 13               | 09/24/13        | --                           | 4,500,000 B               | --                           | --           | --        | --    | --        | 100 U               | 1000 U              | --       | 6.59      | --                | --         |
| MW-117WT          | 3 - 13               | 09/23/14        | --                           | 3,700,000                 | --                           | --           | --        | --    | --        | 1000 U, H           | 1000 U, H           | --       | 6.53      | --                | --         |
| MW-117WT          | 3 - 13               | 09/30/15        | --                           | 3,500,000                 | --                           | --           | --        | --    | --        | 2,500 U             | 2,500 U             | --       | 6.29 HF   | --                | --         |
| MW-117WT          | 3 - 13               | 09/27/16        | --                           | 3,500 ,000                | --                           | --           | --        | --    | --        | 50 U                | 50 U                | --       | 6.5 HF    | --                | --         |
| MW-117WT          | 3 - 13               | 10/13/16        | --                           | --                        | --                           | --           | --        | --    | --        | --                  | --                  | --       | --        | --                | --         |
| MW-118S1          | 23.5 - 28.5          | 06/20/95        | --                           | --                        | --                           | --           | --        | --    | --        | --                  | --                  | --       | --        | --                | --         |
| MW-118S1          | 23.5 - 28.5          | 07/14/95        | 75,000                       | 260,000                   | 345.6 J                      | --           | 560,000   | --    | --        | --                  | --                  | --       | --        | 20 U              | 200        |
| MW-118S1          | 23.5 - 28.5          | 06/11/96        | --                           | --                        | --                           | 680          | --        | --    | --        | 80 U                | 70 U                | --       | --        | --                | --         |
| MW-118S1          | 23.5 - 28.5          | 05/17/00        | --                           | 284,000 [281,000]         | 424.8 [446.4]                | 6,100        | --        | 5,700 | 370       | 2,000 UG [2,000 UG] | 2,000 UG [2,000 UG] | 50 U     | 7 [7]     | --                | --         |
| MW-118S1          | 23.5 - 28.5          | 06/19/01        | --                           | 272,000                   | 604.8                        | --           | --        | --    | --        | 500 U               | R                   | --       | 8         | --                | --         |
| MW-118S1          | 23.5 - 28.5          | 06/27/02        | --                           | 286,000                   | 525.6                        | --           | --        | --    | --        | 500 U               | 500 U               | --       | 7.1       | --                | --         |
| MW-118S1          | 23.5 - 28.5          | 06/19/03        | --                           | 264,000                   | 446.4                        | --           | --        | --    | --        | 500 U               | 500 U               | --       | 8.1       | --                | --         |
| MW-118S1          | 23.5 - 28.5          | 12/09/04        | --                           | 270,000 J                 | 424.8                        | --           | --        | --    | --        | 100 U               | 100 U               | --       | 8         | --                | --         |
| MW-118S1          | 23.5 - 28.5          | 06/23/05        | --                           | 296,000                   | 525.6 J                      | --           | --        | --    | --        | 100 U               | 100 U               | --       | 7         | --                | --         |
| MW-118S1          | 23.5 - 28.5          | 12/14/06        | --                           | 290,000                   | 576                          | --           | --        | --    | --        | 100 U               | 160                 | --       | 7.1 J     | --                | --         |
| MW-118S1          | 23.5 - 28.5          | 12/07/07        | --                           | 275,000                   | 612                          | --           | --        | --    | --        | 100 U               | 100 U               | --       | 7         | --                | --         |
| MW-118S1          | 23.5 - 28.5          | 04/01/08        | --                           | 310,000                   | 583.2                        | --           | --        | --    | --        | 100 U               | 100 U               | --       | 6.9       | --                | --         |
| MW-118S1          | 23.5 - 28.5          | 10/01/10        | --                           | 362,000                   | --                           | --           | --        | --    | --        | 100 U               | 100 U               | --       | 7         | --                | --         |
| MW-118S1          | 23.5 - 28.5          | 09/27/11        | --                           | 290,000                   | --                           | --           | --        | --    | --        | 100 U               | 100 U               | --       | 7.19      | --                | --         |
| MW-118S1          | 23.5 - 28.5          | 09/13/12        | --                           | 290,000                   | --                           | --           | --        | --    | --        | 100 U               | 100 U               | --       | 7.10      | --                | --         |
| MW-118S1          | 23.5 - 28.5          | 09/24/13        | --                           | 300,000 B                 | --                           | --           | --        | --    | --        | 100 U               | 100 U               | --       | 7.19      | --                | --         |
| MW-118S1          | 23.5 - 28.5          | 09/22/14        | --                           | 320,000                   | --                           | --           | --        | --    | --        | 100 U               | 100 U               | --       | 7.06      | --                | --         |
| MW-118S1          | 23.5 - 28.5          | 09/30/15        | --                           | 310,000                   | --                           | --           | --        | --    | --        | 500 U               | 500 U               | --       | 6.94 HF   | --                | --         |
| MW-118S1          | 23.5 - 28.5          | 09/27/16        | --                           | 290,000                   | --                           | --           | --        | --    | --        | 50 U                | 50 U                | --       | 7.0 HF    | --                | --         |

Table 2  
Analytical Data Summary Table - GPL Inorganics  
Saginaw, MI  
RACER Trust

| Sample ID:        | Sample Depth (feet): | Date Collected: | Miscellaneous                |                         |                              |              |           |         |           |                     |                     |          |                   |                   |            |
|-------------------|----------------------|-----------------|------------------------------|-------------------------|------------------------------|--------------|-----------|---------|-----------|---------------------|---------------------|----------|-------------------|-------------------|------------|
|                   |                      |                 | Chemical Oxygen Demand (COD) | Chloride                | Estimated Un-ionized Ammonia | Ferrous Iron | Hardness  | Iron    | Manganese | Nitrate (as N)      | Nitrite (as N)      | Nitrogen | pH                | Phenolics (Total) | Phosphorus |
| MDEQ GSI Criteria |                      |                 | --                           | --                      |                              | --           | --        | --      | --        | --                  | --                  | --       | --                | --                | 1,000      |
| MW-118WT          | 1.6 - 11.6           | 06/20/95        | --                           | --                      | --                           | --           | --        | --      | --        | --                  | --                  | --       | --                | --                | --         |
| MW-118WT          | 1.6 - 11.6           | 07/14/95        | 530,000                      | 3,700,000               | 720 J                        | --           | 7,600,000 | --      | --        | --                  | --                  | --       | --                | 25                | 100 U      |
| MW-118WT          | 1.6 - 11.6           | 06/11/96        | --                           | --                      | --                           | 59,000       | --        | --      | --        | --                  | --                  | --       | --                | --                | --         |
| MW-118WT          | 1.6 - 11.6           | 05/17/00        | --                           | 16,100,000              | 1,872                        | 240,000      | --        | 250,000 | 7,900     | 80 U                | 70 U                | 50 U     | 6.2               | --                | --         |
| MW-118WT          | 1.6 - 11.6           | 06/19/01        | --                           | 21,800,000 [18,800,000] | 6,624 [5,472]                | --           | --        | --      | --        | 50,000 U [500 U]    | R [R]               | --       | 6.9 [7]           | --                | --         |
| MW-118WT          | 1.6 - 11.6           | 06/27/02        | --                           | 16,900,000 [16,500,000] | 5,904 [6,336]                | --           | --        | --      | --        | 2,500 U [2,500 U]   | 2,500 U [2,500 U]   | --       | 6.8 [6.3]         | --                | --         |
| MW-118WT          | 1.6 - 11.6           | 06/19/03        | --                           | 9,740,000 [9,470,000]   | 4,752 [4,680]                | --           | --        | --      | --        | 2,000 U [2,000 U]   | 50,000 U [50,000 U] | --       | 7.7 [7]           | --                | --         |
| MW-118WT          | 1.6 - 11.6           | 05/27/04        | --                           | 7,580,000               | 4,752                        | --           | --        | --      | --        | 1,000 U             | 25,000 U            | --       | 6.4               | --                | --         |
| MW-118WT          | 1.6 - 11.6           | 06/23/05        | --                           | 4,670,000               | 3,384 J                      | --           | --        | --      | --        | 100 U               | 2,000 U             | --       | 6.4               | --                | --         |
| MW-118WT          | 1.6 - 11.6           | 12/14/06        | --                           | 2,370,000               | 3,024                        | --           | --        | --      | --        | 100 U               | 1,900               | --       | 6.6 J             | --                | --         |
| MW-118WT          | 1.6 - 11.6           | 12/07/07        | --                           | 1,760,000               | 3,024                        | --           | --        | --      | --        | 100 U               | 100 U               | --       | 6.7               | --                | --         |
| MW-118WT          | 1.6 - 11.6           | 04/01/08        | --                           | 1,800,000               | 2,736                        | --           | --        | --      | --        | 100 U               | 100 U               | --       | 6.6               | --                | --         |
| MW-118WT          | 1.6 - 11.6           | 09/30/10        | --                           | 932,000                 | --                           | --           | --        | --      | --        | 100 U               | 1,000 U, G          | --       | 6.8               | --                | --         |
| MW-118WT          | 1.6 - 11.6           | 09/27/11        | --                           | 730,000                 | --                           | --           | --        | --      | --        | 100 U               | 100 U               | --       | 6.94              | --                | --         |
| MW-118WT          | 1.6 - 11.6           | 09/13/12        | --                           | 410,000                 | --                           | --           | --        | --      | --        | 100 U               | 100 U               | --       | 6.95              | --                | --         |
| MW-118WT          | 1.6 - 11.6           | 09/24/13        | --                           | 280,000 B               | --                           | --           | --        | --      | --        | 100 U               | 100 U               | --       | 7.12              | --                | --         |
| MW-118WT          | 1.6 - 11.6           | 09/22/14        | --                           | 260,000                 | --                           | --           | --        | --      | --        | 100 U, H            | 100 U, H            | --       | 7.06              | --                | --         |
| MW-118WT          | 1.6 - 11.6           | 09/30/15        | --                           | 230,000                 | --                           | --           | --        | --      | --        | 500 U               | 500 U               | --       | 6.79 HF           | --                | --         |
| MW-118WT          | 1.6 - 11.6           | 09/27/16        | --                           | 240,000                 | --                           | --           | --        | --      | --        | 50 U                | 50 U                | --       | 7.0 HF            | --                | --         |
| MW-183WT          | 6 - 16               | 12/06/07        | --                           | --                      | --                           | --           | --        | --      | --        | --                  | --                  | --       | --                | --                | --         |
| MW-183WT          | 6 - 16               | 01/09/08        | --                           | 147,000 [148,000]       | 28.8 [21.6]                  | --           | --        | --      | --        | 100 U [100 U]       | 100 U [100 U]       | --       | 7.3 [7.3]         | --                | --         |
| MW-183WT          | 6 - 16               | 03/12/08        | --                           | 147,000                 | 21.6                         | --           | --        | --      | --        | 100 U               | 100 U               | --       | 7.3               | --                | --         |
| MW-183WT          | 6 - 16               | 09/28/10        | --                           | 76,600 [77,400]         | --                           | --           | --        | --      | --        | 100 U [100 U]       | 100 U [100 U]       | --       | 7.4 [7.4]         | --                | --         |
| MW-183WT          | 6 - 16               | 09/28/11        | --                           | 63,000 [63,000]         | --                           | --           | --        | --      | --        | 100 U [100 U]       | 100 U [100 U]       | --       | 7.52 [7.47]       | --                | --         |
| MW-183WT          | 6 - 16               | 09/14/12        | --                           | 36,000 [46,000]         | --                           | --           | --        | --      | --        | 100 U [100 U]       | 100 U [100 U]       | --       | 7.42 [7.33]       | --                | --         |
| MW-183WT          | 6 - 16               | 09/24/13        | --                           | 36,000 B [36,000 B]     | --                           | --           | --        | --      | --        | 100 U, H [100 U, H] | 100 U, H [100 U, H] | --       | 7.37 [7.35]       | --                | --         |
| MW-183WT          | 6 - 16               | 09/23/14        | --                           | 29,000 [23,000]         | --                           | --           | --        | --      | --        | 100 U, H [100 U, H] | 100 U, H [100 U, H] | --       | 7.25 [7.21]       | --                | --         |
| MW-183WT          | 6 - 16               | 10/01/15        | --                           | 32,000 F1 [33,000]      | --                           | --           | --        | --      | --        | 100 U [100 U]       | 100 U [100 U]       | --       | 7.25 HF [7.07 HF] | --                | --         |
| MW-183WT          | 6 - 16               | 09/28/16        | --                           | 28                      | --                           | --           | --        | --      | --        | 50 U, F1            | 50 U, F1            | --       | 7.2 HF            | --                | --         |
| TWW-1             | 1.5 - 6.5            | 01/25/97        | --                           | --                      | --                           | --           | --        | --      | --        | --                  | --                  | --       | --                | --                | --         |
| TWW-1             | 1.5 - 6.5            | 05/21/00        | --                           | --                      | --                           | 1,000 U      | --        | 250     | 1,600     | --                  | --                  | 50 U     | --                | --                | --         |
| TWW-1             | 1.5 - 6.5            | 05/29/08        | --                           | --                      | 14.4                         | --           | --        | --      | --        | --                  | --                  | --       | --                | --                | --         |
| TWW-1             | 1.5 - 6.5            | 09/27/16        | --                           | --                      | --                           | --           | --        | --      | --        | --                  | --                  | --       | --                | --                | --         |
| TWW-1             | 1.5 - 6.5            | 09/27/16        | --                           | --                      | --                           | --           | --        | --      | --        | --                  | --                  | --       | --                | --                | --         |
| X-10BR            | 26.3 - 31.3          | 07/24/95        | --                           | --                      | --                           | --           | --        | --      | --        | --                  | --                  | --       | --                | --                | --         |
| X-10BR            | 26.3 - 31.3          | 12/15/06        | --                           | 505,000                 | 432                          | --           | --        | --      | --        | 100 U               | 300                 | --       | 6.8 J             | --                | --         |
| X-10BR            | 26.3 - 31.3          | 12/04/07        | --                           | 497,000                 | 324                          | --           | --        | --      | --        | 100 U               | 100 U               | --       | 6.9               | --                | --         |
| X-10BR            | 26.3 - 31.3          | 03/12/08        | --                           | 502,000                 | 288                          | --           | --        | --      | --        | 100 U               | 100 U               | --       | 6.8               | --                | --         |
| X-10BR            | 26.3 - 31.3          | 09/29/10        | --                           | 595,000                 | --                           | --           | --        | --      | --        | 100 U               | 100 U               | --       | 6.7               | --                | --         |
| X-10BR            | 26.3 - 31.3          | 09/22/11        | --                           | 540,000                 | --                           | --           | --        | --      | --        | 500 U               | 100 U               | --       | 6.85              | --                | --         |
| X-10BR            | 26.3 - 31.3          | 09/14/12        | --                           | 620,000                 | --                           | --           | --        | --      | --        | 100 U               | 100 U               | --       | 6.84              | --                | --         |
| X-10BR            | 26.3 - 31.3          | 09/24/13        | --                           | 540,000 B               | --                           | --           | --        | --      | --        | 100 U               | 500 U               | --       | 6.97              | --                | --         |
| X-4AR             | 3.3 - 8.3            | 07/24/95        | --                           | --                      | --                           | --           | --        | --      | --        | --                  | --                  | --       | --                | --                | --         |
| X-4AR             | 3.3 - 8.3            | 06/09/96        | --                           | --                      | --                           | --           | --        | --      | --        | --                  | --                  | --       | --                | --                | --         |
| X-4AR             | 3.3 - 8.3            | 05/21/00        | --                           | --                      | --                           | --           | --        | --      | --        | --                  | --                  | --       | --                | --                | --         |
| X-4AR             | 3.3 - 8.3            | 06/03/04        | --                           | --                      | --                           | --           | --        | --      | --        | --                  | --                  | --       | --                | --                | --         |
| X-4CAUG           | 18 - 23              | 07/24/95        | --                           | --                      | --                           | --           | --        | --      | --        | --                  | --                  | --       | --                | --                | --         |
| X-4CAUG           | 18 - 23              | 06/08/96        | --                           | --                      | --                           | --           | --        | --      | --        | --                  | --                  | --       | --                | --                | --         |
| X-4CAUGR          | 14 - 19              | 01/09/08        | --                           | 160,000                 | 108                          | --           | --        | --      | --        | 100 U               | 100 U               | --       | 7.2               | --                | --         |
| X-4CAUGR          | 14 - 19              | 03/12/08        | --                           | 108,000                 | 144                          | --           | --        | --      | --        | 100 U               | 100 U               | --       | 7.3               | --                | --         |
| X-4CAUGR          | 14 - 19              | 09/28/10        | --                           | 123,000                 | --                           | --           | --        | --      | --        | 100 U               | 100 U               | --       | 7                 | --                | --         |
| X-4CAUGR          | 14 - 19              | 09/26/11        | --                           | 99,000                  | --                           | --           | --        | --      | --        | 100 U               | 100 U               | --       | 7.24              | --                | --         |
| X-4CAUGR          | 14 - 19              | 09/14/12        | --                           | 140,000                 | --                           | --           | --        | --      | --        | 100 U               | 100 U               | --       | 7.23              | --                | --         |
| X-4CAUGR          | 14 - 19              | 09/24/13        | --                           | 37,000 B                | --                           | --           | --        | --      | --        | 100 U               | 100 U               | --       | 7.17              | --                | --         |
| X-4CAUGR          | 14 - 19              | 09/23/14        | --                           | 129,000                 | --                           | --           | --        | --      | --        | 100 U               | 100 U               | --       | 7.26              | --                | --         |
| X-4CAUGR          | 14 - 19              | 09/30/15        | --                           | 170,000                 | --                           | --           | --        | --      | --        | 100 U H             | 100 U H             | --       | 6.89 HF           | --                | --         |
| X-4CAUGR          | 14 - 19              | 09/28/16        | --                           | 81,000                  | --                           | --           | --        | --      | --        | 50 U                | 50 U                | --       | 7.2 HF            | --                | --         |



Table 2  
Analytical Data Summary Table - GPL Inorganics  
Saginaw, MI  
RACER Trust

| Sample ID:        | Sample Depth<br>(feet): | Date Collected: | Miscellaneous                   |                       |                                 |              |          |      |           |                |                |          |           |                      |            |
|-------------------|-------------------------|-----------------|---------------------------------|-----------------------|---------------------------------|--------------|----------|------|-----------|----------------|----------------|----------|-----------|----------------------|------------|
|                   |                         |                 | Chemical Oxygen<br>Demand (COD) | Chloride              | Estimated<br>Un-ionized Ammonia | Ferrous Iron | Hardness | Iron | Manganese | Nitrate (as N) | Nitrite (as N) | Nitrogen | pH        | Phenolics<br>(Total) | Phosphorus |
| MDEQ GSI Criteria |                         |                 | --                              | --                    |                                 | --           | --       | --   | --        | --             | --             | --       | --        | --                   | 1,000      |
| X-4D              | 40 - 45                 | 01/09/08        | --                              | 1,400,000             | 496.8                           | --           | --       | --   | --        | 100 U          | 2,000 U        | --       | 7.6       | --                   | --         |
| X-4D              | 40 - 45                 | 04/01/08        | --                              | 1,460,000 [1,460,000] | 633.6 [583.2]                   | --           | --       | --   | --        | 100 U [100 U]  | 100 U [100 U]  | --       | 7.3 [7.4] | --                   | --         |
| X-4D              | 40 - 45                 | 04/03/08        | --                              | --                    | --                              | --           | --       | --   | --        | --             | --             | --       | --        | --                   | --         |
| X-4D              | 40 - 45                 | 06/05/08        | --                              | --                    | 446.4 [527.04]                  | --           | --       | --   | --        | --             | --             | --       | --        | --                   | --         |
| X-4D              | 40 - 45                 | 09/28/10        | --                              | 1,470,000             | --                              | --           | --       | --   | --        | 0.13           | 1,000 U, G     | --       | 7.4       | --                   | --         |
| X-4D              | 40 - 45                 | 09/26/11        | --                              | 1,400,000             | --                              | --           | --       | --   | --        | 100 U          | 2,000 U        | --       | 7.47      | --                   | --         |
| X-4D              | 40 - 45                 | 09/14/12        | --                              | 1,500,000             | --                              | --           | --       | --   | --        | 500 U          | 100 U          | --       | 7.51      | --                   | --         |
| X-4D              | 40 - 45                 | 09/24/13        | --                              | 1,500,000 B           | --                              | --           | --       | --   | --        | 100 U          | 1,000 U        | --       | 7.54      | --                   | --         |
| X-4D              | 40 - 45                 | 09/23/14        | --                              | 760,000               | --                              | --           | --       | --   | --        | 1.8            | 100 U          | --       | 7.52      | --                   | --         |
| X-4D              | 40 - 45                 | 09/30/15        | --                              | 1,500,000             | --                              | --           | --       | --   | --        | 2,500 U        | 2,500 U        | --       | 7.29 HF   | --                   | --         |
| X-4D              | 40 - 45                 | 09/28/16        | --                              | 1,300,000             | --                              | --           | --       | --   | --        | 50 U           | 50 U           | --       | 7.4 HF    | --                   | --         |
| X-9AR             | 3 - 13                  | 07/24/95        | --                              | --                    | --                              | --           | --       | --   | --        | --             | --             | --       | --        | --                   | --         |
| X-9AR             | 3 - 13                  | 06/09/96        | --                              | --                    | --                              | --           | --       | --   | --        | --             | --             | --       | --        | --                   | --         |
| X-9AR             | 3 - 13                  | 12/15/06        | --                              | 29,700                | 14.4 U                          | --           | --       | --   | --        | 100 U          | 100 U          | --       | 7.2 J     | --                   | --         |
| X-9AR             | 3 - 13                  | 01/10/08        | --                              | 58,000                | 21.6                            | --           | --       | --   | --        | 100 U          | 100 U          | --       | 7.1       | --                   | --         |
| X-9AR             | 3 - 13                  | 03/11/08        | --                              | 10,700                | 14.4 U                          | --           | --       | --   | --        | 100 U          | 100 U          | --       | 7.4       | --                   | --         |
| X-9AR             | 3 - 13                  | 06/05/08        | --                              | --                    | --                              | --           | --       | --   | --        | --             | --             | --       | --        | --                   | --         |
| X-9AR             | 3 - 13                  | 09/29/10        | --                              | 52,100                | --                              | --           | --       | --   | --        | 100 U          | 100 U          | --       | 7         | --                   | --         |
| X-9AR             | 3 - 13                  | 09/23/11        | --                              | 180,000               | --                              | --           | --       | --   | --        | 100 U          | 100 U          | --       | 7.45      | --                   | --         |
| X-9AR             | 3 - 13                  | 09/12/12        | --                              | 180,000               | --                              | --           | --       | --   | --        | 100 U          | 100 U          | --       | 7.15      | --                   | --         |
| X-9AR             | 3 - 13                  | 09/25/13        | --                              | 160,000               | --                              | --           | --       | --   | --        | 100 U          | 100 U          | --       | 7.25      | --                   | --         |
| X-9AR             | 3 - 13                  | 09/22/14        | --                              | 100,000               | --                              | --           | --       | --   | --        | 100 U          | 100 U          | --       | 7.08      | --                   | --         |
| X-9AR             | 3 - 13                  | 10/01/15        | --                              | 17,000                | --                              | --           | --       | --   | --        | 100 U          | 100 U          | --       | 7.28 HF   | --                   | --         |
| X-9AR             | 3 - 13                  | 09/28/16        | --                              | 15,000                | --                              | --           | --       | --   | --        | 50 U           | 50 U           | --       | 7.1 HF    | --                   | --         |
| X-9BR             | 26 - 31                 | 07/24/95        | --                              | --                    | --                              | --           | --       | --   | --        | --             | --             | --       | --        | --                   | --         |
| X-9BR             | 26 - 31                 | 06/08/96        | --                              | --                    | --                              | --           | --       | --   | --        | --             | --             | --       | --        | --                   | --         |
| X-9BR             | 26 - 31                 | 12/15/06        | --                              | 191,000               | 424.8                           | --           | --       | --   | --        | 100            | 180            | --       | 7.2 J     | --                   | --         |
| X-9BR             | 26 - 31                 | 01/08/08        | --                              | 200,000               | 374.4                           | --           | --       | --   | --        | 100 U          | 100 U          | --       | 7.2       | --                   | --         |
| X-9BR             | 26 - 31                 | 03/11/08        | --                              | 181,000               | 360                             | --           | --       | --   | --        | 100 U          | 100 U          | --       | 7.1       | --                   | --         |
| X-9BR             | 26 - 31                 | 09/28/10        | --                              | 269,000               | --                              | --           | --       | --   | --        | 100 U          | 100 U          | --       | 7         | --                   | --         |
| X-9BR             | 26 - 31                 | 09/23/11        | --                              | 250,000               | --                              | --           | --       | --   | --        | 100 U          | 100 U          | --       | 7.50      | --                   | --         |
| X-9BR             | 26 - 31                 | 09/12/12        | --                              | 280,000               | --                              | --           | --       | --   | --        | 100 U          | 100 U          | --       | 7.14      | --                   | --         |
| X-9BR             | 26 - 31                 | 09/25/13        | --                              | 240,000               | --                              | --           | --       | --   | --        | 100 U          | 100 U          | --       | 7.35      | --                   | --         |
| X-9BR             | 26 - 31                 | 09/22/14        | --                              | 260,000               | --                              | --           | --       | --   | --        | 100 U          | 100 U          | --       | 7.18      | --                   | --         |
| X-9BR             | 26 - 31                 | 10/01/15        | --                              | 270,000               | --                              | --           | --       | --   | --        | 100 U          | 100 U          | --       | 7.06 HF   | --                   | --         |
| X-9BR             | 26 - 31                 | 09/28/16        | --                              | 280,000               | --                              | --           | --       | --   | --        | 50 U           | 50 U           | --       | 7.2 HF    | --                   | --         |
| X-9CAUG           | 20 - 25                 | 07/24/95        | --                              | --                    | --                              | --           | --       | --   | --        | --             | --             | --       | --        | --                   | --         |
| X-9CAUG           | 20 - 25                 | 06/08/96        | --                              | --                    | --                              | --           | --       | --   | --        | --             | --             | --       | --        | --                   | --         |
| X-9CAUG           | 20 - 25                 | 12/15/06        | --                              | 130,000               | 208.8                           | --           | --       | --   | --        | 100 U          | 110            | --       | 7.1 J     | --                   | --         |
| X-9CAUG           | 20 - 25                 | 01/08/08        | --                              | 145,000               | 230.4                           | --           | --       | --   | --        | 200            | 100 U          | --       | 7.4       | --                   | --         |
| X-9CAUG           | 20 - 25                 | 03/11/08        | --                              | 130,000               | 237.6                           | --           | --       | --   | --        | 100 U          | 100 U          | --       | 7.1       | --                   | --         |
| X-9CAUG           | 20 - 25                 | 09/28/10        | --                              | 200,000               | --                              | --           | --       | --   | --        | 0.034 B        | 100 U          | --       | 7         | --                   | --         |
| X-9CAUG           | 20 - 25                 | 09/23/11        | --                              | 41,000                | --                              | --           | --       | --   | --        | 100 U          | 100 U          | --       | 7.52      | --                   | --         |
| X-9CAUG           | 20 - 25                 | 09/12/12        | --                              | 34,000                | --                              | --           | --       | --   | --        | 100 U          | 100 U          | --       | 7.15      | --                   | --         |
| X-9CAUG           | 20 - 25                 | 09/25/13        | --                              | 24,000                | --                              | --           | --       | --   | --        | 100 U          | 100 U          | --       | 7.33      | --                   | --         |
| X-9CAUG           | 20 - 25                 | 09/22/14        | --                              | 16,000                | --                              | --           | --       | --   | --        | 100 U , H      | 100 U , H      | --       | 7.15      | --                   | --         |
| X-9CAUG           | 20 - 25                 | 09/30/15        | --                              | 180,000               | --                              | --           | --       | --   | --        | 100 U , H      | 100 U , H      | --       | 6.88 HF   | --                   | --         |
| X-9CAUG           | 20 - 25                 | 09/28/16        | --                              | 190,000               | --                              | --           | --       | --   | --        | 50 U           | 50 U           | --       | 7.1 HF    | --                   | --         |
| X-9D              | 42.5 - 47.5             | 01/08/08        | --                              | 1,370,000             | 612                             | --           | --       | --   | --        | 100 U          | 100 U          | --       | 7.4       | --                   | --         |
| X-9D              | 42.5 - 47.5             | 03/11/08        | --                              | 1,340,000             | 698.4                           | --           | --       | --   | --        | 100 U          | 100 UJ         | --       | 7.3       | --                   | --         |
| X-9D              | 42.5 - 47.5             | 03/12/08        | --                              | --                    | --                              | --           | --       | --   | --        | --             | --             | --       | --        | --                   | --         |
| X-9D              | 42.5 - 47.5             | 06/05/08        | --                              | --                    | 424.8                           | --           | --       | --   | --        | --             | --             | --       | --        | --                   | --         |
| X-9D              | 42.5 - 47.5             | 09/28/10        | --                              | 1,520,000             | --                              | --           | --       | --   | --        | 100 U          | 1,000 U, G     | --       | 7.3       | --                   | --         |
| X-9D              | 42.5 - 47.5             | 09/23/11        | --                              | 1,400,000             | --                              | --           | --       | --   | --        | 100 U          | 1,000 U        | --       | 7.73      | --                   | --         |
| X-9D              | 42.5 - 47.5             | 09/12/12        | --                              | 1,400,000             | --                              | --           | --       | --   | --        | 100 U          | 1,000 U        | --       | 7.45      | --                   | --         |
| X-9D              | 42.5 - 47.5             | 09/25/13        | --                              | 1,300,000             | --                              | --           | --       | --   | --        | 100 U          | 100 U          | --       | 7.51      | --                   | --         |
| X-9D              | 42.5 - 47.5             | 09/22/14        | --                              | 1,400,000             | --                              | --           | --       | --   | --        | 100 U          | 500 U, H       | --       | 7.41      | --                   | --         |
| X-9D              | 42.5 - 47.5             | 09/30/15        | --                              | 1,500,000             | --                              | --           | --       | --   | --        | 500 U, H       | 500 U, H       | --       | 17.2 HF   | --                   | --         |
| X-9D              | 42.5 - 47.5             | 09/28/16        | --                              | 1,300,000             | --                              | --           | --       | --   | --        | 50 U*          | 50 U*          | --       | 7.4 HF    | --                   | --         |

Table 2  
Analytical Data Summary Table - GPL Inorganics  
Saginaw, MI  
RACER Trust

| Sample ID:        | Sample Depth (feet): | Date Collected: | Miscellaneous       |         |                              |                            |                              | Gases                       |                 |                  |        |        |         |          |
|-------------------|----------------------|-----------------|---------------------|---------|------------------------------|----------------------------|------------------------------|-----------------------------|-----------------|------------------|--------|--------|---------|----------|
|                   |                      |                 | Sulfate             | Sulfide | Total Dissolved Solids (TDS) | Total Organic Carbon (TOC) | Total Suspended Solids (TSS) | Carbon Dioxide by Headspace | Carbon monoxide | Dissolved Oxygen | Ethane | Ethene | Methane | Nitrogen |
| MDEQ GSI Criteria |                      |                 | --                  | --      | --                           | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| MW-117S1          | 24.2 - 29.2          | 06/20/95        | --                  | --      | --                           | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| MW-117S1          | 24.2 - 29.2          | 07/14/95        | --                  | --      | 990,000                      | --                         | 64,000                       | --                          | --              | --               | --     | --     | --      | --       |
| MW-117S1          | 24.2 - 29.2          | 06/11/96        | --                  | --      | --                           | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| MW-117S1          | 24.2 - 29.2          | 05/19/00        | 2,000 UG            | --      | 840,000                      | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| MW-117S1          | 24.2 - 29.2          | 06/19/01        | 260 B               | --      | 920,000                      | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| MW-117S1          | 24.2 - 29.2          | 06/26/02        | 140 B               | --      | 970,000                      | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| MW-117S1          | 24.2 - 29.2          | 06/19/03        | 1,000 UJ            | --      | 1,000,000                    | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| MW-117S1          | 24.2 - 29.2          | 05/27/04        | 440 B               | --      | 1,000,000                    | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| MW-117S1          | 24.2 - 29.2          | 06/23/05        | 1,000 U             | --      | 970,000 J                    | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| MW-117S1          | 24.2 - 29.2          | 12/13/06        | 1,000 U             | --      | 960,000                      | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| MW-117S1          | 24.2 - 29.2          | 12/07/07        | 1,000 U             | --      | 950,000                      | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| MW-117S1          | 24.2 - 29.2          | 03/14/08        | 1,000 U             | --      | 940,000                      | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| MW-117S1          | 24.2 - 29.2          | 10/01/10        | 1,000 U             | --      | 940,000                      | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| MW-117S1          | 24.2 - 29.2          | 09/27/11        | 1,000 U             | --      | 970,000                      | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| MW-117S1          | 24.2 - 29.2          | 09/13/12        | 1,000 U             | --      | 930,000                      | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| MW-117S1          | 24.2 - 29.2          | 09/24/13        | 450 J               | --      | 880,000                      | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| MW-117S1          | 24.2 - 29.2          | 09/22/14        | 1,000 U             | --      | 880,000                      | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| MW-117S1          | 24.2 - 29.2          | 09/30/15        | 5,000 U             | --      | 930,000                      | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| MW-117S1          | 24.2 - 29.2          | 09/27/16        | 1,000 U             | --      | 870,000                      | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| MW-117WT          | 3 - 13               | 06/20/95        | --                  | --      | --                           | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| MW-117WT          | 3 - 13               | 07/14/95        | --                  | --      | 11,000,000                   | --                         | 240,000                      | --                          | --              | --               | --     | --     | --      | --       |
| MW-117WT          | 3 - 13               | 06/11/96        | --                  | --      | --                           | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| MW-117WT          | 3 - 13               | 05/19/00        | 25,000 UG           | --      | 11,000,000                   | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| MW-117WT          | 3 - 13               | 06/18/01        | 230 B               | --      | 13,000,000                   | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| MW-117WT          | 3 - 13               | 06/26/02        | 320 B               | --      | 11,000,000 J [12,000,000]    | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| MW-117WT          | 3 - 13               | 06/19/03        | 340 BJG             | --      | 13,000,000                   | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| MW-117WT          | 3 - 13               | 12/09/04        | 240 B [1,000 U]     | --      | 7,800,000 J [7,900,000 J]    | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| MW-117WT          | 3 - 13               | 06/23/05        | 230 B               | --      | 9,600,000 J                  | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| MW-117WT          | 3 - 13               | 12/13/06        | 270 J               | --      | 7,800,000                    | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| MW-117WT          | 3 - 13               | 12/07/07        | 800 J               | --      | 7,600,000                    | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| MW-117WT          | 3 - 13               | 03/14/08        | 2,000 U             | --      | 5,900,000                    | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| MW-117WT          | 3 - 13               | 10/01/10        | 1,000 U             | --      | 7,900,000                    | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| MW-117WT          | 3 - 13               | 09/27/11        | 380                 | --      | 9,800,000                    | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| MW-117WT          | 3 - 13               | 09/13/12        | 350 J               | --      | 9,900,000                    | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| MW-117WT          | 3 - 13               | 09/24/13        | 710 J               | --      | 7,300,000                    | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| MW-117WT          | 3 - 13               | 09/23/14        | 10,000 U            | --      | 6,300,000                    | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| MW-117WT          | 3 - 13               | 09/30/15        | 2,500 U             | --      | 5,700,000                    | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| MW-117WT          | 3 - 13               | 09/27/16        | 250 J               | --      | 4,800,000                    | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| MW-117WT          | 3 - 13               | 10/13/16        | --                  | --      | --                           | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| MW-118S1          | 23.5 - 28.5          | 06/20/95        | --                  | --      | --                           | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| MW-118S1          | 23.5 - 28.5          | 07/14/95        | --                  | --      | 8,000,000                    | --                         | 31,000                       | --                          | --              | --               | --     | --     | --      | --       |
| MW-118S1          | 23.5 - 28.5          | 06/11/96        | 5,000 U             | 800     | --                           | 3,200                      | --                           | 88,900                      | 400 U           | 500              | --     | --     | 11,500  | 10,500   |
| MW-118S1          | 23.5 - 28.5          | 05/17/00        | 4,000 UG [4,000 UG] | 2,000 U | 930,000 [940,000]            | 10,000                     | --                           | 78,440                      | 400 U           | 580              | --     | --     | 8,990   | 9,480    |
| MW-118S1          | 23.5 - 28.5          | 06/19/01        | 150 B               | --      | 910,000                      | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| MW-118S1          | 23.5 - 28.5          | 06/27/02        | 1,600               | --      | 1,200,000 [1,200,000]        | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| MW-118S1          | 23.5 - 28.5          | 06/19/03        | 1,000 UJ            | --      | 1,000,000                    | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| MW-118S1          | 23.5 - 28.5          | 12/09/04        | 1,000 U             | --      | 980,000 J                    | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| MW-118S1          | 23.5 - 28.5          | 06/23/05        | 1,000 U             | --      | 520,000 J                    | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| MW-118S1          | 23.5 - 28.5          | 12/14/06        | 1,000 U             | --      | 1,000,000                    | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| MW-118S1          | 23.5 - 28.5          | 12/07/07        | 1,000 U             | --      | 900,000                      | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| MW-118S1          | 23.5 - 28.5          | 04/01/08        | 4,700               | --      | 960,000                      | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| MW-118S1          | 23.5 - 28.5          | 10/01/10        | 1,000 U             | --      | 970,000                      | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| MW-118S1          | 23.5 - 28.5          | 09/27/11        | 1,000 U             | --      | 1,000,000                    | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| MW-118S1          | 23.5 - 28.5          | 09/13/12        | 1,000 U             | --      | 960,000                      | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| MW-118S1          | 23.5 - 28.5          | 09/24/13        | 320 J               | --      | 920,000                      | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| MW-118S1          | 23.5 - 28.5          | 09/22/14        | 1,000 U             | --      | 980,000                      | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| MW-118S1          | 23.5 - 28.5          | 09/30/15        | 5,000 U             | --      | 1,000,000                    | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| MW-118S1          | 23.5 - 28.5          | 09/27/16        | 1,000 U             | --      | 930,000                      | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |

Table 2  
Analytical Data Summary Table - GPL Inorganics  
Saginaw, MI  
RACER Trust

|            |             |                         | Miscellaneous       |         |                         |                                 |                               | Gases                           |                                |                    |                     |        |        |         |          |
|------------|-------------|-------------------------|---------------------|---------|-------------------------|---------------------------------|-------------------------------|---------------------------------|--------------------------------|--------------------|---------------------|--------|--------|---------|----------|
|            |             | Sample Depth<br>(feet): | Date Collected:     | Sulfate | Sulfide                 | Total Dissolved<br>Solids (TDS) | Total Organic<br>Carbon (TOC) | Total Suspended<br>Solids (TSS) | Carbon Dioxide<br>by Headspace | Carbon<br>monoxide | Dissolved<br>Oxygen | Ethane | Ethene | Methane | Nitrogen |
| Sample ID: |             |                         | MDEQ GSI Criteria   |         |                         | --                              | --                            | --                              | --                             | --                 | --                  | --     | --     | --      | --       |
| MW-118WT   | 1.6 - 11.6  | 06/20/95                | --                  | --      | --                      | --                              | --                            | --                              | --                             | --                 | --                  | --     | --     | --      | --       |
| MW-118WT   | 1.6 - 11.6  | 07/14/95                | --                  | --      | 1,400,000               | --                              | 220,000                       | --                              | --                             | --                 | --                  | --     | --     | --      | --       |
| MW-118WT   | 1.6 - 11.6  | 06/11/96                | 5,000 U             | 390     | --                      | 16,900                          | --                            | 302,800                         | 400 U                          | 500 U              | --                  | --     | --     | 19,700  | 4,600    |
| MW-118WT   | 1.6 - 11.6  | 05/17/00                | 100,000 UG          | 2,000 U | 37,000,000              | 81,000                          | --                            | 353,700                         | 400 U                          | 210                | --                  | --     | --     | 16,000  | 2,370    |
| MW-118WT   | 1.6 - 11.6  | 06/19/01                | 100,000 U [630 B]   | --      | 34,000,000 [36,000,000] | --                              | --                            | --                              | --                             | --                 | --                  | --     | --     | --      | --       |
| MW-118WT   | 1.6 - 11.6  | 06/27/02                | 590 B [560 B]       | --      | 42,000,000 [41,000,000] | --                              | --                            | --                              | --                             | --                 | --                  | --     | --     | --      | --       |
| MW-118WT   | 1.6 - 11.6  | 06/19/03                | 700 BJG [1,200 BJG] | --      | 23,000,000 [24,000,000] | --                              | --                            | --                              | --                             | --                 | --                  | --     | --     | --      | --       |
| MW-118WT   | 1.6 - 11.6  | 05/27/04                | 2,000 U             | --      | 15,000,000              | --                              | --                            | --                              | --                             | --                 | --                  | --     | --     | --      | --       |
| MW-118WT   | 1.6 - 11.6  | 06/23/05                | 5,000               | --      | 12,000,000 J            | --                              | --                            | --                              | --                             | --                 | --                  | --     | --     | --      | --       |
| MW-118WT   | 1.6 - 11.6  | 12/14/06                | 25,300              | --      | 6,800,000               | --                              | --                            | --                              | --                             | --                 | --                  | --     | --     | --      | --       |
| MW-118WT   | 1.6 - 11.6  | 12/07/07                | 17,600              | --      | 4,600,000               | --                              | --                            | --                              | --                             | --                 | --                  | --     | --     | --      | --       |
| MW-118WT   | 1.6 - 11.6  | 04/01/08                | 23,500              | --      | 4,600,000               | --                              | --                            | --                              | --                             | --                 | --                  | --     | --     | --      | --       |
| MW-118WT   | 1.6 - 11.6  | 09/30/10                | 10,000              | --      | 2,000,000               | --                              | --                            | --                              | --                             | --                 | --                  | --     | --     | --      | --       |
| MW-118WT   | 1.6 - 11.6  | 09/27/11                | 5,200               | --      | 2,300,000               | --                              | --                            | --                              | --                             | --                 | --                  | --     | --     | --      | --       |
| MW-118WT   | 1.6 - 11.6  | 09/13/12                | 2,300               | --      | 1,300,000               | --                              | --                            | --                              | --                             | --                 | --                  | --     | --     | --      | --       |
| MW-118WT   | 1.6 - 11.6  | 09/24/13                | 18,000              | --      | 1,000,000               | --                              | --                            | --                              | --                             | --                 | --                  | --     | --     | --      | --       |
| MW-118WT   | 1.6 - 11.6  | 09/22/14                | 19,000              | --      | 990,000                 | --                              | --                            | --                              | --                             | --                 | --                  | --     | --     | --      | --       |
| MW-118WT   | 1.6 - 11.6  | 09/30/15                | 9,300               | --      | 980,000                 | --                              | --                            | --                              | --                             | --                 | --                  | --     | --     | --      | --       |
| MW-118WT   | 1.6 - 11.6  | 09/27/16                | 6.1                 | --      | 900,000                 | --                              | --                            | --                              | --                             | --                 | --                  | --     | --     | --      | --       |
| MW-183WT   | 6 - 16      | 12/06/07                | --                  | --      | --                      | --                              | --                            | --                              | --                             | --                 | --                  | --     | --     | --      | --       |
| MW-183WT   | 6 - 16      | 01/09/08                | 1,000 [700 J]       | --      | 440,000 [470,000]       | --                              | --                            | --                              | --                             | --                 | --                  | --     | --     | --      | --       |
| MW-183WT   | 6 - 16      | 03/12/08                | 2,600 U             | --      | 520,000                 | --                              | --                            | --                              | --                             | --                 | --                  | --     | --     | --      | --       |
| MW-183WT   | 6 - 16      | 09/28/10                | 1,000 U [1,000 U]   | --      | 360,000 [370,000]       | --                              | --                            | --                              | --                             | --                 | --                  | --     | --     | --      | --       |
| MW-183WT   | 6 - 16      | 09/28/11                | 11,000 [11,000]     | --      | 410,000 [430,000]       | --                              | --                            | --                              | --                             | --                 | --                  | --     | --     | --      | --       |
| MW-183WT   | 6 - 16      | 09/14/12                | 200,000 [200,000]   | --      | 600,000 [600,000]       | --                              | --                            | --                              | --                             | --                 | --                  | --     | --     | --      | --       |
| MW-183WT   | 6 - 16      | 09/24/13                | 89,000 [88,000]     | --      | 570,000 [570,000]       | --                              | --                            | --                              | --                             | --                 | --                  | --     | --     | --      | --       |
| MW-183WT   | 6 - 16      | 09/23/14                | 3,200 [2,900 J]     | --      | 410,000 [400,000]       | --                              | --                            | --                              | --                             | --                 | --                  | --     | --     | --      | --       |
| MW-183WT   | 6 - 16      | 10/01/15                | 1,000 U [1,000 U]   | --      | 410,000 [410,000]       | --                              | --                            | --                              | --                             | --                 | --                  | --     | --     | --      | --       |
| MW-183WT   | 6 - 16      | 09/28/16                | 970 J               | --      | 400                     | --                              | --                            | --                              | --                             | --                 | --                  | --     | --     | --      | --       |
| TWW-1      | 1.5 - 6.5   | 01/25/97                | --                  | --      | --                      | --                              | --                            | --                              | --                             | --                 | --                  | --     | --     | --      | --       |
| TWW-1      | 1.5 - 6.5   | 05/21/00                | 340,000             | 2,000 U | --                      | 13,000                          | --                            | 146,930                         | 400 U                          | 1,240              | 44.103              | 17.324 | 580    | 17,930  |          |
| TWW-1      | 1.5 - 6.5   | 05/29/08                | --                  | --      | 1,600,000               | --                              | --                            | --                              | --                             | --                 | --                  | --     | --     | --      |          |
| TWW-1      | 1.5 - 6.5   | 09/27/16                | --                  | --      | --                      | --                              | --                            | --                              | --                             | --                 | --                  | --     | --     | --      |          |
| TWW-1      | 1.5 - 6.5   | 09/27/16                | --                  | --      | --                      | --                              | --                            | --                              | --                             | --                 | --                  | --     | --     | --      |          |
| X-10BR     | 26.3 - 31.3 | 07/24/95                | --                  | --      | --                      | --                              | --                            | --                              | --                             | --                 | --                  | --     | --     | --      | --       |
| X-10BR     | 26.3 - 31.3 | 12/15/06                | 1,000 U             | --      | 1,600,000               | --                              | --                            | --                              | --                             | --                 | --                  | --     | --     | --      | --       |
| X-10BR     | 26.3 - 31.3 | 12/04/07                | 1,000 U             | --      | 1,400,000               | --                              | --                            | --                              | --                             | --                 | --                  | --     | --     | --      | --       |
| X-10BR     | 26.3 - 31.3 | 03/12/08                | 1,000 U             | --      | 1,400,000               | --                              | --                            | --                              | --                             | --                 | --                  | --     | --     | --      | --       |
| X-10BR     | 26.3 - 31.3 | 09/29/10                | 1,000 U             | --      | 1,400,000               | --                              | --                            | --                              | --                             | --                 | --                  | --     | --     | --      | --       |
| X-10BR     | 26.3 - 31.3 | 09/22/11                | 360                 | --      | 1,500,000               | --                              | --                            | --                              | --                             | --                 | --                  | --     | --     | --      | --       |
| X-10BR     | 26.3 - 31.3 | 09/14/12                | 590 J               | --      | 1,500,000               | --                              | --                            | --                              | --                             | --                 | --                  | --     | --     | --      | --       |
| X-10BR     | 26.3 - 31.3 | 09/24/13                | 120 J               | --      | 1,500,000               | --                              | --                            | --                              | --                             | --                 | --                  | --     | --     | --      | --       |
| X-4AR      | 3.3 - 8.3   | 07/24/95                | --                  | --      | --                      | --                              | --                            | --                              | --                             | --                 | --                  | --     | --     | --      | --       |
| X-4AR      | 3.3 - 8.3   | 06/09/96                | --                  | --      | --                      | --                              | --                            | --                              | --                             | --                 | --                  | --     | --     | --      | --       |
| X-4AR      | 3.3 - 8.3   | 05/21/00                | --                  | --      | --                      | --                              | --                            | --                              | --                             | --                 | --                  | --     | --     | --      | --       |
| X-4AR      | 3.3 - 8.3   | 06/03/04                | --                  | --      | --                      | --                              | --                            | --                              | --                             | --                 | --                  | --     | --     | --      | --       |
| X-4CAUG    | 18 - 23     | 07/24/95                | --                  | --      | --                      | --                              | --                            | --                              | --                             | --                 | --                  | --     | --     | --      | --       |
| X-4CAUG    | 18 - 23     | 06/08/96                | --                  | --      | --                      | --                              | --                            | --                              | --                             | --                 | --                  | --     | --     | --      | --       |
| X-4CAUGR   | 14 - 19     | 01/09/08                | 1,000 U             | --      | 550,000                 | --                              | --                            | --                              | --                             | --                 | --                  | --     | --     | --      | --       |
| X-4CAUGR   | 14 - 19     | 03/12/08                | 1,000 U             | --      | 580,000                 | --                              | --                            | --                              | --                             | --                 | --                  | --     | --     | --      | --       |
| X-4CAUGR   | 14 - 19     | 09/28/10                | 210 B               | --      | 570,000                 | --                              | --                            | --                              | --                             | --                 | --                  | --     | --     | --      | --       |
| X-4CAUGR   | 14 - 19     | 09/26/11                | 1,000 U             | --      | 570,000                 | --                              | --                            | --                              | --                             | --                 | --                  | --     | --     | --      | --       |
| X-4CAUGR   | 14 - 19     | 09/14/12                | 1,000 U             | --      | 630,000                 | --                              | --                            | --                              | --                             | --                 | --                  | --     | --     | --      | --       |
| X-4CAUGR   | 14 - 19     | 09/24/13                | 190                 | --      | 540,000                 | --                              | --                            | --                              | --                             | --                 | --                  | --     | --     | --      | --       |
| X-4CAUGR   | 14 - 19     | 09/23/14                | 1,000 U             | --      | 630,000                 | --                              | --                            | --                              | --                             | --                 | --                  | --     | --     | --      | --       |
| X-4CAUGR   | 14 - 19     | 09/30/15                | 1,000 U             | --      | 700,000                 | --                              | --                            | --                              | --                             | --                 | --                  | --     | --     | --      | --       |
| X-4CAUGR   | 14 - 19     | 09/28/16                | 18,000              | --      | 570                     | --                              | --                            | --                              | --                             | --                 | --                  | --     | --     | --      | --       |



Table 2  
Analytical Data Summary Table - GPL Inorganics  
Saginaw, MI  
RACER Trust

| Sample ID:        | Sample Depth (feet): | Date Collected: | Miscellaneous     |         |                              |                            |                              | Gases                       |                 |                  |        |        |         |          |
|-------------------|----------------------|-----------------|-------------------|---------|------------------------------|----------------------------|------------------------------|-----------------------------|-----------------|------------------|--------|--------|---------|----------|
|                   |                      |                 | Sulfate           | Sulfide | Total Dissolved Solids (TDS) | Total Organic Carbon (TOC) | Total Suspended Solids (TSS) | Carbon Dioxide by Headspace | Carbon monoxide | Dissolved Oxygen | Ethane | Ethene | Methane | Nitrogen |
| MDEQ GSI Criteria |                      |                 | --                | --      | --                           | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-4D              | 40 - 45              | 01/09/08        | 94,400            | --      | 2,300,000                    | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-4D              | 40 - 45              | 04/01/08        | 118,000 [118,000] | --      | 2,500,000 [2,600,000 J]      | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-4D              | 40 - 45              | 04/03/08        | --                | --      | --                           | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-4D              | 40 - 45              | 06/05/08        | --                | --      | 3,300,000 [2,820,000]        | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-4D              | 40 - 45              | 09/28/10        | 122,000           | --      | 2,500,000                    | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-4D              | 40 - 45              | 09/26/11        | 150,000           | --      | 2,800,000                    | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-4D              | 40 - 45              | 09/14/12        | 190,000           | --      | 2,400,000                    | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-4D              | 40 - 45              | 09/24/13        | 160,000           | --      | 2,400,000                    | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-4D              | 40 - 45              | 09/23/14        | 88,000            | --      | 830,000                      | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-4D              | 40 - 45              | 09/30/15        | 160,000           | --      | 2,700,000                    | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-4D              | 40 - 45              | 09/28/16        | 160,000           | --      | 2,600                        | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-9AR             | 3 - 13               | 07/24/95        | --                | --      | --                           | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-9AR             | 3 - 13               | 06/09/96        | --                | --      | --                           | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-9AR             | 3 - 13               | 12/15/06        | 29,200            | --      | 790,000                      | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-9AR             | 3 - 13               | 01/10/08        | 400 J             | --      | 770,000                      | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-9AR             | 3 - 13               | 03/11/08        | 35,500            | --      | 600,000                      | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-9AR             | 3 - 13               | 06/05/08        | --                | --      | --                           | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-9AR             | 3 - 13               | 09/29/10        | 310 B             | --      | 700,000                      | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-9AR             | 3 - 13               | 09/23/11        | 1,000 U           | --      | 750,000                      | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-9AR             | 3 - 13               | 09/12/12        | 1,000 U           | --      | 820,000                      | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-9AR             | 3 - 13               | 09/25/13        | 790 J             | --      | 800,000                      | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-9AR             | 3 - 13               | 09/22/14        | 1,000 U           | --      | 630,000                      | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-9AR             | 3 - 13               | 10/01/15        | 130 U             | --      | 640,000                      | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-9AR             | 3 - 13               | 09/28/16        | 1,000 U           | --      | 630,000                      | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-9BR             | 26 - 31              | 07/24/95        | --                | --      | --                           | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-9BR             | 26 - 31              | 06/08/96        | --                | --      | --                           | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-9BR             | 26 - 31              | 12/15/06        | 1,000 U           | --      | 830,000                      | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-9BR             | 26 - 31              | 01/08/08        | 1,000 U           | --      | 810,000                      | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-9BR             | 26 - 31              | 03/11/08        | 1,000 U           | --      | 760,000                      | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-9BR             | 26 - 31              | 09/28/10        | 1,000 U           | --      | 880,000                      | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-9BR             | 26 - 31              | 09/23/11        | 1,000 U           | --      | 900,000                      | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-9BR             | 26 - 31              | 09/12/12        | 1,000 U           | --      | 980,000                      | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-9BR             | 26 - 31              | 09/25/13        | 2,100             | --      | 870,000                      | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-9BR             | 26 - 31              | 09/22/14        | 1,000 U           | --      | 1,000,000                    | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-9BR             | 26 - 31              | 10/01/15        | 1,000 U           | --      | 990,000                      | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-9BR             | 26 - 31              | 09/28/16        | 1,000 U           | --      | 990,000                      | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-9CAUG           | 20 - 25              | 07/24/95        | --                | --      | --                           | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-9CAUG           | 20 - 25              | 06/08/96        | --                | --      | --                           | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-9CAUG           | 20 - 25              | 12/15/06        | 1,000 U           | --      | 690,000                      | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-9CAUG           | 20 - 25              | 01/08/08        | 300 J             | --      | 700,000                      | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-9CAUG           | 20 - 25              | 03/11/08        | 1,000 U           | --      | 680,000                      | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-9CAUG           | 20 - 25              | 09/28/10        | 260 B             | --      | 750,000                      | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-9CAUG           | 20 - 25              | 09/23/11        | 310               | --      | 690,000                      | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-9CAUG           | 20 - 25              | 09/12/12        | 1,000 U           | --      | 680,000                      | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-9CAUG           | 20 - 25              | 09/25/13        | 340 J             | --      | 640,000                      | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-9CAUG           | 20 - 25              | 09/22/14        | 1,100             | --      | 640,000                      | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-9CAUG           | 20 - 25              | 09/30/15        | 1,000 U           | --      | 790,000                      | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-9CAUG           | 20 - 25              | 09/28/16        | 1,000 U           | --      | 830,000                      | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-9D              | 42.5 - 47.5          | 01/08/08        | 194,000           | --      | 2,400,000                    | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-9D              | 42.5 - 47.5          | 03/11/08        | 185,000           | --      | 2,500,000                    | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-9D              | 42.5 - 47.5          | 03/12/08        | --                | --      | --                           | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-9D              | 42.5 - 47.5          | 06/05/08        | --                | --      | 2,900,000                    | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-9D              | 42.5 - 47.5          | 09/28/10        | 220,000           | --      | 2,400,000                    | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-9D              | 42.5 - 47.5          | 09/23/11        | 220,000           | --      | 2,700,000                    | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-9D              | 42.5 - 47.5          | 09/12/12        | 200,000           | --      | 2,600,000                    | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-9D              | 42.5 - 47.5          | 09/25/13        | 240,000           | --      | 2,400,000                    | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-9D              | 42.5 - 47.5          | 09/22/14        | 220,000           | --      | 2,600,000                    | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-9D              | 42.5 - 47.5          | 09/30/15        | 230,000 F1        | --      | 2,800,000                    | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |
| X-9D              | 42.5 - 47.5          | 09/28/16        | 240,000           | --      | 2,300,000                    | --                         | --                           | --                          | --              | --               | --     | --     | --      | --       |

Table 2  
Analytical Data Summary Table - SMI Inorganics  
Saginaw, MI  
RACER Trust

| Sample ID:        | Sample Depth (feet): | Date Collected: | Inorganics |          |         |            |           |           |         |                |        |          |                 |              |          |            |
|-------------------|----------------------|-----------------|------------|----------|---------|------------|-----------|-----------|---------|----------------|--------|----------|-----------------|--------------|----------|------------|
|                   |                      |                 | Aluminum   | Antimony | Arsenic | Barium     | Beryllium | Cadmium   | Calcium | Chromium Total | Cobalt | Copper   | Cyanide (total) | Ferrous Iron | Iron     | Lead       |
| MDEQ GSI Criteria |                      |                 | NA         | 130 (X)  | 680*    | 1758.8 (G) | 65.36 (G) | 5.9 (G,X) | --      | 216 (G,X)      | 100    | 27.4 (G) | 5.2             | --           | --       | 57.4 (G,X) |
| MW-107S1          | 12.5 - 17.5          | 07/12/95        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | 5.00 U          | --           | --       | --         |
| MW-107S1          | 12.5 - 17.5          | 06/07/96        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --           | --       | --         |
| MW-107S1          | 12.5 - 17.5          | 06/06/08        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --           | --       | --         |
| MW-107S1          | 12.5 - 17.5          | 09/30/10        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --           | --       | --         |
| MW-107S1          | 12.5 - 17.5          | 09/21/11        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --           | --       | --         |
| MW-107S1          | 12.5 - 17.5          | 09/17/12        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --           | --       | --         |
| MW-107S1          | 12.5 - 17.5          | 09/26/13        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --           | --       | --         |
| MW-107S1          | 12.5 - 17.5          | 09/24/14        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --           | --       | --         |
| MW-107S1          | 12.5 - 17.5          | 10/01/15        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --           | --       | --         |
| MW-107S1          | 12.5 - 17.5          | 09/29/16        | --         | --       | NA      | --         | --        | --        | --      | --             | --     | --       | NA              | --           | --       | --         |
| MW-107WT          | 4 - 9                | 07/12/95        | 2,020      | 5.00 U   | 2.30    | 200 U      | 5.00 U    | 0.200 UJ  | 87,100  | 50.0 U         | 50.0 U | 25.0 U   | 5.00 U          | --           | 5,310    | 3.20       |
| MW-107WT          | 4 - 9                | 06/07/96        | 234        | 5.00 U   | 5.00 U  | 200 U      | 5.00 U    | 0.500 UJ  | 84,200  | 50.0 U         | 50.0 U | 25.0 U   | 5.00 U          | --           | 511 J    | 3.00 U     |
| MW-107WT          | 4 - 9                | 04/03/08        | --         | --       | 0.950 J | --         | --        | --        | --      | --             | --     | --       | --              | --           | --       | --         |
| MW-107WT          | 4 - 9                | 09/18/12        | --         | --       | 1.1 J   | --         | --        | --        | --      | --             | --     | --       | --              | --           | --       | --         |
| MW-107WT          | 4 - 9                | 09/26/13        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --           | --       | --         |
| MW-107WT          | 4 - 9                | 09/24/14        | --         | --       | 4.2     | --         | --        | --        | --      | --             | --     | --       | --              | --           | --       | --         |
| MW-107WT          | 4 - 9                | 10/01/15        | --         | --       | 11      | --         | --        | --        | --      | --             | --     | --       | --              | --           | --       | --         |
| MW-107WT          | 4 - 9                | 09/29/16        | --         | --       | 6.5     | --         | --        | --        | --      | --             | --     | --       | NA              | --           | --       | --         |
| MW-108S2          | 22 - 27              | 07/13/95        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | 5.00 U          | --           | --       | --         |
| MW-108S2          | 22 - 27              | 06/08/96        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --           | --       | --         |
| MW-108S2          | 22 - 27              | 06/06/08        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --           | --       | --         |
| MW-108S2          | 22 - 27              | 09/29/10        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --           | --       | --         |
| MW-108S2          | 22 - 27              | 09/21/11        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --           | --       | --         |
| MW-108S2          | 22 - 27              | 09/17/12        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --           | --       | --         |
| MW-108S2          | 22 - 27              | 09/26/13        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --           | --       | --         |
| MW-108S2          | 22 - 27              | 09/24/14        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --           | --       | --         |
| MW-108S2          | 22 - 27              | 10/01/15        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --           | --       | --         |
| MW-108S2          | 22 - 27              | 09/29/16        | --         | --       | NA      | --         | --        | --        | --      | --             | --     | --       | NA              | --           | --       | --         |
| MW-108WT          | 2.5 - 7.5            | 07/13/95        | 6,930      | 5.00 U   | 8.30 J  | 200 U      | 5.00 U    | 1.10      | 99,700  | 50.0 UJ        | 50.0 U | 25.0 U   | 5.00 U          | --           | 58,300   | 41.5       |
| MW-108WT          | 2.5 - 7.5            | 06/08/96        | 100 U      | 5.00 U   | 5.00 U  | 200 U      | 5.00 U    | 0.500 UJ  | 86,700  | 50.0 U         | 50.0 U | 25.0 U   | 5.00 U          | --           | 2,380    | 3.00 U     |
| MW-108WT          | 2.5 - 7.5            | 05/21/00        | 144        | 5.00 U   | 10.0 U  | 45.6 B     | 4.00 U    | 1.00 U    | 67,900  | 5.00 U         | 10.0 U | 25.0 U   | --              | --           | 3,810    | 3.00 U     |
| MW-108WT          | 2.5 - 7.5            | 06/02/04        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --           | --       | --         |
| MW-108WT          | 2.5 - 7.5            | 09/29/16        | --         | --       | NA      | --         | --        | --        | --      | --             | --     | --       | NA              | --           | --       | --         |
| MW-110WT          | UNKNOWN              | 06/12/96        | 111        | 5.00 U   | 7.30    | 200 U      | 5.00 U    | 0.500 U   | 65,300  | 50.0 U         | 50.0 U | 25.0 U   | 5.00 U          | --           | 3,090 J  | 3.00 U     |
| MW-110WT          | UNKNOWN              | 12/10/97        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --           | --       | --         |
| MW-110WTR         | 10 - 15              | 04/02/08        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --           | --       | --         |
| MW-110WTR         | 10 - 15              | 09/24/14        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --           | --       | --         |
| MW-110WTR         | 10 - 15              | 10/01/15        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --           | --       | --         |
| MW-110WTR         | 10 - 15              | 09/29/16        | --         | --       | NA      | --         | --        | --        | --      | --             | --     | --       | NA              | --           | --       | --         |
| MW-110WTR         | 10 - 15              | 10/13/16        | --         | --       | NA      | --         | --        | --        | --      | --             | --     | --       | 0.010 U         | --           | --       | --         |
| MW-111WT          | 5.5 - 10.5           | 07/14/95        | 19,700     | 5.00 U   | 24.0 J  | 401        | 5.00 U    | 2.30      | 309,000 | 117 J          | 50.0 U | 39.6     | 5.00 U          | --           | 54,600   | 27.8       |
| MW-111WT          | 5.5 - 10.5           | 06/12/96        | 100 U      | 5.00 U   | 30.7    | 614        | 5.00 U    | 0.500 UJ  | 375,000 | 50.0 U         | 50.0 U | 25.0 U   | 5.00 U          | --           | 40,200 J | 3.00 U     |
| MW-111WT          | 5.5 - 10.5           | 06/30/99        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --           | 18,000   | --         |
| MW-111WT          | 5.5 - 10.5           | 09/02/99        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --           | --       | --         |
| MW-111WT          | 5.5 - 10.5           | 05/19/00        | 100 U      | 5.00 U   | 11.4    | 356        | 4.00 U    | 1.00 U    | 321,000 | 5.00 U         | 10.0 U | 25.0 U   | --              | --           | 18,300   | 3.00 U     |
| MW-111WT          | 5.5 - 10.5           | 06/02/04        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --           | --       | --         |
| MW-111WT          | 5.5 - 10.5           | 08/26/05        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --           | --       | --         |
| MW-111WT          | 5.5 - 10.5           | 04/02/08        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --           | --       | --         |
| MW-111WT          | 5.5 - 10.5           | 09/18/12        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --           | --       | --         |
| MW-111WT          | 5.5 - 10.5           | 09/26/13        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --           | --       | --         |
| MW-111WT          | 5.5 - 10.5           | 09/23/14        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --           | --       | --         |
| MW-111WT          | 5.5 - 10.5           | 10/01/15        | --         | --       | --      | --         | --        | --        | --      | --             | --     | --       | --              | --           | --       | --         |
| MW-111WT          | 5.5 - 10.5           | 09/29/16        | --         | --       | NA      | --         | --        | --        | --      | --             | --     | --       | NA              | --           | --       | --         |

Table 2  
Analytical Data Summary Table - SMI Inorganics  
Saginaw, MI  
RACER Trust

| Sample ID:        | Sample Depth (feet): | Date Collected: | Inorganics |          |               |            |           |           |         |                |        |          |                 |              |        |            |
|-------------------|----------------------|-----------------|------------|----------|---------------|------------|-----------|-----------|---------|----------------|--------|----------|-----------------|--------------|--------|------------|
|                   |                      |                 | Aluminum   | Antimony | Arsenic       | Barium     | Beryllium | Cadmium   | Calcium | Chromium Total | Cobalt | Copper   | Cyanide (total) | Ferrous Iron | Iron   | Lead       |
| MDEQ GSI Criteria |                      |                 | NA         | 130 (X)  | 680*          | 1758.8 (G) | 65.36 (G) | 5.9 (G,X) | --      | 216 (G,X)      | 100    | 27.4 (G) | 5.2             | --           | --     | 57.4 (G,X) |
| MW-114S2          | 22.5 - 27.5          | 07/17/95        | --         | --       | --            | --         | --        | --        | --      | --             | --     | --       | 5.00 U          | --           | --     | --         |
| MW-114S2          | 22.5 - 27.5          | 06/07/96        | --         | --       | --            | --         | --        | --        | --      | --             | --     | --       | --              | --           | --     | --         |
| MW-114S2          | 22.5 - 27.5          | 06/06/08        | --         | --       | --            | --         | --        | --        | --      | --             | --     | --       | --              | --           | --     | --         |
| MW-114S2          | 22.5 - 27.5          | 09/29/10        | --         | --       | --            | --         | --        | --        | --      | --             | --     | --       | --              | --           | --     | --         |
| MW-114S2          | 22.5 - 27.5          | 09/22/11        | --         | --       | --            | --         | --        | --        | --      | --             | --     | --       | --              | --           | --     | --         |
| MW-114S2          | 22.5 - 27.5          | 09/18/12        | --         | --       | --            | --         | --        | --        | --      | --             | --     | --       | --              | --           | --     | --         |
| MW-114S2          | 22.5 - 27.5          | 09/25/13        | --         | --       | --            | --         | --        | --        | --      | --             | --     | --       | --              | --           | --     | --         |
| MW-114S2          | 22.5 - 27.5          | 09/23/14        | --         | --       | --            | --         | --        | --        | --      | --             | --     | --       | --              | --           | --     | --         |
| MW-114S2          | 22.5 - 27.5          | 10/02/15        | --         | --       | --            | --         | --        | --        | --      | --             | --     | --       | --              | --           | --     | --         |
| MW-114S2          | 22.5 - 27.5          | 09/29/16        | --         | --       | NA            | --         | --        | --        | --      | --             | --     | --       | NA              | --           | --     | --         |
| MW-114WT          | 3.5 - 8.5            | 06/08/96        | 193        | 5.00 U   | 5.00 U        | 570        | 5.00 U    | 4.00      | 902,000 | 50.0 U         | 50.0 U | 25.0 U   | 5.00 U          | --           | 367 U  | 3.00 U     |
| MW-114WT          | 3.5 - 8.5            | 12/11/97        | --         | --       | --            | --         | --        | --        | --      | --             | --     | --       | --              | --           | --     | --         |
| MW-114WT          | 3.5 - 8.5            | 05/22/00        | 100 U      | 5.00 U   | 10.0 U        | 107        | 4.00 U    | 1.00 U    | 595,000 | 5.00 U         | 10.0 U | 25.0 U   | --              | --           | 65.9 B | 3.00 U     |
| MW-114WT          | 3.5 - 8.5            | 09/26/13        | --         | --       | --            | --         | --        | --        | --      | --             | --     | --       | --              | --           | --     | --         |
| MW-114WT          | 3.5 - 8.5            | 09/23/14        | --         | --       | 5.3           | --         | --        | --        | --      | --             | --     | --       | --              | --           | --     | --         |
| MW-114WT          | 3.5 - 8.5            | 10/02/15        | --         | --       | --            | --         | --        | --        | --      | --             | --     | --       | --              | --           | --     | --         |
| MW-114WT          | 3.5 - 8.5            | 09/29/16        | --         | --       | NA            | --         | --        | --        | --      | --             | --     | --       | NA              | --           | --     | --         |
| MW-149WT          | 7 - 17               | 06/12/96        | --         | --       | --            | --         | --        | --        | --      | --             | --     | --       | --              | --           | --     | --         |
| MW-149WT          | 7 - 17               | 05/21/00        | 98.4 B     | 5.00 U   | 10.7          | 118        | 4.00 U    | 1.00 U    | 117,000 | 5.00 U         | 10.0 U | 25.0 U   | --              | --           | 5,320  | 3.00 U     |
| MW-149WT          | 7 - 17               | 06/02/04        | --         | --       | 223 [227]     | --         | --        | --        | --      | --             | --     | --       | --              | --           | --     | --         |
| MW-149WT          | 7 - 17               | 04/03/08        | --         | --       | 93.6 [92.3]   | --         | --        | --        | --      | --             | --     | --       | --              | --           | --     | --         |
| MW-149WT          | 7 - 17               | 09/30/10        | --         | --       | 126 [122]     | --         | --        | --        | --      | --             | --     | --       | --              | --           | --     | --         |
| MW-149WT          | 7 - 17               | 09/28/11        | --         | --       | 190 [180]     | --         | --        | --        | --      | --             | --     | --       | --              | --           | --     | --         |
| MW-149WT          | 7 - 17               | 09/18/12        | --         | --       | 160 [160]     | --         | --        | --        | --      | --             | --     | --       | --              | --           | --     | --         |
| MW-149WT          | 7 - 17               | 09/25/13        | --         | --       | 140 B [140 B] | --         | --        | --        | --      | --             | --     | --       | --              | --           | --     | --         |
| MW-149WT          | 7 - 17               | 09/24/14        | --         | --       | 75 B [69 B]   | --         | --        | --        | --      | --             | --     | --       | --              | --           | --     | --         |
| MW-149WT          | 7 - 17               | 10/01/15        | --         | --       | 60            | --         | --        | --        | --      | --             | --     | --       | --              | --           | --     | --         |
| MW-149WT          | 7 - 17               | 09/29/16        | --         | --       | 50 [52]       | --         | --        | --        | --      | --             | --     | --       | NA              | --           | --     | --         |
| MW-185WT          | 3 - 8                | 11/28/07        | --         | --       | --            | --         | --        | --        | --      | --             | --     | --       | --              | --           | --     | --         |
| MW-185WT          | 3 - 8                | 09/18/12        | --         | --       | --            | --         | --        | --        | --      | --             | --     | --       | --              | --           | --     | --         |
| MW-185WT          | 3 - 8                | 09/25/13        | --         | --       | --            | --         | --        | --        | --      | --             | --     | --       | --              | --           | --     | --         |
| MW-185WT          | 3 - 8                | 09/24/14        | --         | --       | --            | --         | --        | --        | --      | --             | --     | --       | --              | --           | --     | --         |
| MW-185WT          | 3 - 8                | 10/01/15        | --         | --       | --            | --         | --        | --        | --      | --             | --     | --       | --              | --           | --     | --         |
| MW-185WT          | 3 - 8                | 09/30/16        | --         | --       | NA            | --         | --        | --        | --      | --             | --     | --       | NA              | --           | --     | --         |
| MW-186WT          | UNKNOWN              | 09/30/10        | --         | --       | --            | --         | --        | --        | --      | --             | --     | --       | --              | --           | --     | --         |
| MW-186WT          | UNKNOWN              | 09/23/11        | --         | --       | --            | --         | --        | --        | --      | --             | --     | --       | --              | --           | --     | --         |
| MW-186WT          | UNKNOWN              | 09/18/12        | --         | --       | --            | --         | --        | --        | --      | --             | --     | --       | --              | --           | --     | --         |
| MW-186WT          | UNKNOWN              | 09/25/13        | --         | --       | --            | --         | --        | --        | --      | --             | --     | --       | --              | --           | --     | --         |
| MW-186WT          | UNKNOWN              | 09/24/14        | --         | --       | --            | --         | --        | --        | --      | --             | --     | --       | --              | --           | --     | --         |
| MW-186WT          | UNKNOWN              | 10/02/15        | --         | --       | --            | --         | --        | --        | --      | --             | --     | --       | --              | --           | --     | --         |
| MW-186WT          | UNKNOWN              | 09/30/16        | --         | --       | NA            | --         | --        | --        | --      | --             | --     | --       | NA              | --           | --     | --         |
| MW-186WT          | UNKNOWN              | 09/30/16        | --         | --       | NA            | --         | --        | --        | --      | --             | --     | --       | NA              | --           | --     | --         |

Table 2  
Analytical Data Summary Table - SMI Inorganics  
Saginaw, MI  
RACER Trust

|                   |                      |                 | Inorganics |               |         |           |           |          |               |         |           |          |           | Inorganics-Dissolved |                      |                     |
|-------------------|----------------------|-----------------|------------|---------------|---------|-----------|-----------|----------|---------------|---------|-----------|----------|-----------|----------------------|----------------------|---------------------|
| Sample ID:        | Sample Depth (feet): | Date Collected: | Magnesium  | Manganese     | Mercury | Nickel    | Potassium | Selenium | Silver        | Sodium  | Thallium  | Vanadium | Zinc      | Aluminum (Dissolved) | Antimony (Dissolved) | Arsenic (Dissolved) |
| MDEQ GSI Criteria |                      |                 | --         | 6,203.8 (G,X) | 0.0013  | 157.3 (G) | --        | 5        | 0.2 (M); 0.06 | --      | 3.7 (X)   | 27       | 358.0 (G) | --                   | 130 (X)              | 680*                |
| MW-107S1          | 12.5 - 17.5          | 07/12/95        | --         | --            | --      | --        | --        | --       | --            | --      | --        | --       | --        | 100 U                | 5 U                  | 1.1                 |
| MW-107S1          | 12.5 - 17.5          | 06/07/96        | --         | --            | --      | --        | --        | --       | --            | --      | --        | --       | --        | 134 U                | 5 U                  | 5 U                 |
| MW-107S1          | 12.5 - 17.5          | 06/06/08        | --         | --            | --      | --        | --        | --       | --            | --      | --        | --       | --        | --                   | --                   | --                  |
| MW-107S1          | 12.5 - 17.5          | 09/30/10        | --         | --            | --      | --        | --        | --       | --            | --      | --        | --       | --        | --                   | --                   | --                  |
| MW-107S1          | 12.5 - 17.5          | 09/21/11        | --         | --            | --      | --        | --        | --       | --            | --      | --        | --       | --        | --                   | --                   | --                  |
| MW-107S1          | 12.5 - 17.5          | 09/17/12        | --         | --            | --      | --        | --        | --       | --            | --      | --        | --       | --        | --                   | --                   | --                  |
| MW-107S1          | 12.5 - 17.5          | 09/26/13        | --         | --            | --      | --        | --        | --       | --            | --      | --        | --       | --        | --                   | --                   | --                  |
| MW-107S1          | 12.5 - 17.5          | 09/24/14        | --         | --            | --      | --        | --        | --       | --            | --      | --        | --       | --        | --                   | --                   | --                  |
| MW-107S1          | 12.5 - 17.5          | 10/01/15        | --         | --            | --      | --        | --        | --       | --            | --      | --        | --       | --        | --                   | --                   | --                  |
| MW-107S1          | 12.5 - 17.5          | 09/29/16        | --         | --            | --      | --        | --        | --       | --            | --      | NA        | --       | --        | --                   | --                   | --                  |
| MW-107WT          | 4 - 9                | 07/12/95        | 15,800     | 446           | 0.200 U | 50.0 U    | 7,380     | 5.00 U   | 0.500 U       | 69,000  | 2.00 UJ   | 20.0 U   | R         | 110                  | 5 U                  | 1.6                 |
| MW-107WT          | 4 - 9                | 06/07/96        | 13,000     | 38.3 J        | 0.200 U | 50.0 U    | 6,190     | 5.00 U   | 0.500 U       | 56,600  | 2.00 UJ   | 20.0 U   | 20.0 U    | 100 U                | 5 U                  | 5 U                 |
| MW-107WT          | 4 - 9                | 04/03/08        | --         | 379           | --      | --        | --        | --       | --            | --      | 1.00 U    | --       | --        | --                   | --                   | --                  |
| MW-107WT          | 4 - 9                | 09/18/12        | --         | 170           | --      | --        | --        | --       | --            | --      | 0.46 J, B | --       | --        | --                   | --                   | --                  |
| MW-107WT          | 4 - 9                | 09/26/13        | --         | --            | --      | --        | --        | --       | --            | --      | --        | --       | --        | --                   | --                   | --                  |
| MW-107WT          | 4 - 9                | 09/24/14        | --         | 1,500         | --      | --        | --        | --       | --            | --      | 1.00 U    | --       | --        | --                   | --                   | --                  |
| MW-107WT          | 4 - 9                | 10/01/15        | --         | --            | --      | --        | --        | --       | --            | --      | 1.0 U     | --       | --        | --                   | --                   | --                  |
| MW-107WT          | 4 - 9                | 09/29/16        | --         | 2,000 ^       | --      | --        | --        | --       | --            | --      | 1.0 U     | --       | --        | --                   | --                   | --                  |
| MW-108S2          | 22 - 27              | 07/13/95        | --         | --            | --      | --        | --        | --       | --            | --      | --        | --       | --        | 100 U                | 5 U                  | 1 UJ                |
| MW-108S2          | 22 - 27              | 06/08/96        | --         | --            | --      | --        | --        | --       | --            | --      | --        | --       | --        | 225                  | 5 U                  | 5 U                 |
| MW-108S2          | 22 - 27              | 06/06/08        | --         | --            | --      | --        | --        | --       | --            | --      | --        | --       | --        | --                   | --                   | --                  |
| MW-108S2          | 22 - 27              | 09/29/10        | --         | --            | --      | --        | --        | --       | --            | --      | --        | --       | --        | --                   | --                   | --                  |
| MW-108S2          | 22 - 27              | 09/21/11        | --         | --            | --      | --        | --        | --       | --            | --      | --        | --       | --        | --                   | --                   | --                  |
| MW-108S2          | 22 - 27              | 09/17/12        | --         | --            | --      | --        | --        | --       | --            | --      | --        | --       | --        | --                   | --                   | --                  |
| MW-108S2          | 22 - 27              | 09/26/13        | --         | --            | --      | --        | --        | --       | --            | --      | --        | --       | --        | --                   | --                   | --                  |
| MW-108S2          | 22 - 27              | 09/24/14        | --         | --            | --      | --        | --        | --       | --            | --      | --        | --       | --        | --                   | --                   | --                  |
| MW-108S2          | 22 - 27              | 10/01/15        | --         | --            | --      | --        | --        | --       | --            | --      | --        | --       | --        | --                   | --                   | --                  |
| MW-108S2          | 22 - 27              | 09/29/16        | --         | --            | --      | --        | --        | --       | --            | --      | NA        | --       | --        | --                   | --                   | --                  |
| MW-108WT          | 2.5 - 7.5            | 07/13/95        | 17,100     | 4,800         | 0.200 U | 50.0 U    | 9,540     | 5.00 U   | 0.500 U       | 59,600  | 2.00 U    | 20.0 UJ  | 77.0      | 100 U                | 5 U                  | 1 UJ                |
| MW-108WT          | 2.5 - 7.5            | 06/08/96        | 14,600     | 933           | 0.200 U | 50.0 U    | 10,300    | 5.00 U   | 0.500 U       | 57,700  | 4.00 UJ   | 20.0 U   | 20.0 UJ   | 100 U                | 5 U                  | 5 U                 |
| MW-108WT          | 2.5 - 7.5            | 05/21/00        | 13,900     | 1,230         | 0.200 U | 40.0 U    | 8,810 J   | 5.00 U   | 5.00 U        | 102,000 | 10.0 U    | 20.0 U   | 20.0 U    | 100 U                | 1.7 B                | 10 U                |
| MW-108WT          | 2.5 - 7.5            | 06/02/04        | --         | --            | --      | --        | --        | --       | --            | --      | 1.00 U    | --       | --        | --                   | --                   | --                  |
| MW-108WT          | 2.5 - 7.5            | 09/29/16        | --         | 2,000 ^       | --      | --        | --        | --       | --            | --      | NA        | --       | --        | --                   | --                   | --                  |
| MW-110WT          | UNKNOWN              | 06/12/96        | 11,900     | 460           | 0.200 U | 50.0 U    | 5,000 U   | 5.00 U   | 0.500 U       | 33,700  | 2.00 UJ   | 20.0 U   | 96.2 U    | 100 U                | 5 U                  | 5.6                 |
| MW-110WT          | UNKNOWN              | 12/10/97        | --         | --            | --      | --        | --        | --       | --            | --      | --        | --       | --        | --                   | --                   | 5 U                 |
| MW-110WTR         | 10 - 15              | 04/02/08        | --         | 2,680         | --      | --        | --        | --       | --            | --      | --        | --       | --        | --                   | --                   | --                  |
| MW-110WTR         | 10 - 15              | 09/24/14        | --         | 4,000         | --      | --        | --        | --       | --            | --      | 1.0 U     | --       | --        | --                   | --                   | --                  |
| MW-110WTR         | 10 - 15              | 10/01/15        | --         | 4,000         | --      | --        | --        | --       | --            | --      | 1.0 U     | --       | --        | --                   | --                   | --                  |
| MW-110WTR         | 10 - 15              | 09/29/16        | --         | 3,500 ^       | --      | --        | --        | --       | --            | --      | 1.0 U     | --       | --        | --                   | --                   | --                  |
| MW-110WTR         | 10 - 15              | 10/13/16        | --         | --            | --      | --        | --        | --       | --            | --      | NA        | --       | --        | --                   | --                   | --                  |
| MW-111WT          | 5.5 - 10.5           | 07/14/95        | 94,200     | 3,740         | 0.200 U | 96.8      | 9,120     | 5.00 U   | 0.500 U       | 67,100  | 2.00 UJ   | 45.2     | R         | 100 U                | 5 U                  | 18                  |
| MW-111WT          | 5.5 - 10.5           | 06/12/96        | 61,100     | 4,440         | 0.200 U | 50.0 U    | 10,900    | 5.00 U   | 0.500 U       | 160,000 | 8.00 UJ   | 20.0 U   | 20.0 U    | 100 U                | 5 U                  | 11.1                |
| MW-111WT          | 5.5 - 10.5           | 06/30/99        | --         | 2,100         | --      | --        | --        | --       | --            | --      | --        | --       | --        | 100 UJ               | 2                    | 14                  |
| MW-111WT          | 5.5 - 10.5           | 09/02/99        | --         | --            | --      | --        | --        | --       | --            | --      | --        | --       | --        | 100 U                | 2 U                  | 17                  |
| MW-111WT          | 5.5 - 10.5           | 05/19/00        | 47,800     | 2,560         | 0.200 U | 40.0 U    | 15,500    | 5.00 U   | 5.00 U        | 171,000 | 7.90 B    | 20.0 U   | 20.0 U    | 100 U                | 5 U                  | 9.8 B               |
| MW-111WT          | 5.5 - 10.5           | 06/02/04        | --         | 1,090         | --      | --        | --        | --       | --            | --      | --        | --       | --        | --                   | --                   | --                  |
| MW-111WT          | 5.5 - 10.5           | 08/26/05        | --         | 1,680 [1,520] | --      | --        | --        | --       | --            | --      | --        | --       | --        | --                   | --                   | --                  |
| MW-111WT          | 5.5 - 10.5           | 04/02/08        | --         | 1,080 [1,140] | --      | --        | --        | --       | --            | --      | --        | --       | --        | --                   | --                   | --                  |
| MW-111WT          | 5.5 - 10.5           | 09/18/12        | --         | 3,600         | --      | --        | --        | --       | --            | --      | 0.24      | --       | --        | --                   | --                   | --                  |
| MW-111WT          | 5.5 - 10.5           | 09/26/13        | --         | 1,600         | --      | --        | --        | --       | --            | --      | 1.00 U    | --       | --        | --                   | --                   | --                  |
| MW-111WT          | 5.5 - 10.5           | 09/23/14        | --         | 780           | --      | --        | --        | --       | --            | --      | 1.00 U    | --       | --        | --                   | --                   | --                  |
| MW-111WT          | 5.5 - 10.5           | 10/01/15        | --         | 1,600         | --      | --        | --        | --       | --            | --      | 1.0 U     | --       | --        | --                   | --                   | --                  |
| MW-111WT          | 5.5 - 10.5           | 09/29/16        | --         | 1,700         | --      | --        | --        | --       | --            | --      | 1.0 U     | --       | --        | --                   | --                   | --                  |

Table 2  
Analytical Data Summary Table - SMI Inorganics  
Saginaw, MI  
RACER Trust



|                   |                      |                 | Inorganics |               |         |           |           |          |               |         |                   |          |           | Inorganics-Dissolved |                      |                     |
|-------------------|----------------------|-----------------|------------|---------------|---------|-----------|-----------|----------|---------------|---------|-------------------|----------|-----------|----------------------|----------------------|---------------------|
| Sample ID:        | Sample Depth (feet): | Date Collected: | Magnesium  | Manganese     | Mercury | Nickel    | Potassium | Selenium | Silver        | Sodium  | Thallium          | Vanadium | Zinc      | Aluminum (Dissolved) | Antimony (Dissolved) | Arsenic (Dissolved) |
| MDEQ GSI Criteria |                      |                 | --         | 6,203.8 (G,X) | 0.0013  | 157.3 (G) | --        | 5        | 0.2 (M); 0.06 | --      | 3.7 (X)           | 27       | 358.0 (G) | --                   | 130 (X)              | 680*                |
| MW-114S2          | 22.5 - 27.5          | 07/17/95        | --         | --            | --      | --        | --        | --       | --            | --      | --                | --       | --        | 100 U                | 5 U                  | 1 U                 |
| MW-114S2          | 22.5 - 27.5          | 06/07/96        | --         | --            | --      | --        | --        | --       | --            | --      | --                | --       | --        | 100 U                | 5 U                  | 5 U                 |
| MW-114S2          | 22.5 - 27.5          | 06/06/08        | --         | --            | --      | --        | --        | --       | --            | --      | --                | --       | --        | --                   | --                   | --                  |
| MW-114S2          | 22.5 - 27.5          | 09/29/10        | --         | --            | --      | --        | --        | --       | --            | --      | --                | --       | --        | --                   | --                   | --                  |
| MW-114S2          | 22.5 - 27.5          | 09/22/11        | --         | --            | --      | --        | --        | --       | --            | --      | --                | --       | --        | --                   | --                   | --                  |
| MW-114S2          | 22.5 - 27.5          | 09/18/12        | --         | --            | --      | --        | --        | --       | --            | --      | --                | --       | --        | --                   | --                   | --                  |
| MW-114S2          | 22.5 - 27.5          | 09/25/13        | --         | --            | --      | --        | --        | --       | --            | --      | --                | --       | --        | --                   | --                   | --                  |
| MW-114S2          | 22.5 - 27.5          | 09/23/14        | --         | --            | --      | --        | --        | --       | --            | --      | --                | --       | --        | --                   | --                   | --                  |
| MW-114S2          | 22.5 - 27.5          | 10/02/15        | --         | --            | --      | --        | --        | --       | --            | --      | --                | --       | --        | --                   | --                   | --                  |
| MW-114S2          | 22.5 - 27.5          | 09/29/16        | --         | --            | --      | --        | --        | --       | --            | --      | NA                | --       | --        | --                   | --                   | --                  |
| MW-114WT          | 3.5 - 8.5            | 06/08/96        | 132,000    | 2,260         | 0.200 U | 50.0 U    | 18,500    | 5.00 U   | 0.500 U       | 200,000 | 4.00 UJ           | 20.0 U   | 20.0 U    | 122                  | 5 U                  | 5 U                 |
| MW-114WT          | 3.5 - 8.5            | 12/11/97        | --         | --            | --      | --        | --        | --       | --            | --      | --                | --       | --        | --                   | --                   | 19                  |
| MW-114WT          | 3.5 - 8.5            | 05/22/00        | 67,300     | 503           | 0.200 U | 40.0 U    | 16,100    | 5.00 U   | 5.00 U        | 218,000 | 5.30 B            | 20.0 U   | 20.0 U    | 100 U                | 5 U                  | 10 U                |
| MW-114WT          | 3.5 - 8.5            | 09/26/13        | --         | 1,100         | --      | --        | --        | --       | --            | --      | 1.00 U            | --       | --        | --                   | --                   | --                  |
| MW-114WT          | 3.5 - 8.5            | 09/23/14        | --         | 1,400         | --      | --        | --        | --       | --            | --      | 1.00 U            | --       | --        | --                   | --                   | --                  |
| MW-114WT          | 3.5 - 8.5            | 10/02/15        | --         | 1,000         | --      | --        | --        | --       | --            | --      | 0.14 J [1.0 U]    | --       | --        | --                   | --                   | --                  |
| MW-114WT          | 3.5 - 8.5            | 09/29/16        | --         | 1,100         | --      | --        | --        | --       | --            | --      | 1.0 U             | --       | --        | --                   | --                   | --                  |
| MW-149WT          | 7 - 17               | 06/12/96        | --         | --            | --      | --        | --        | --       | --            | --      | --                | --       | --        | 100 U                | 5 U                  | 230                 |
| MW-149WT          | 7 - 17               | 05/21/00        | 21,600     | 868           | 0.200 U | 40.0 U    | 24,600 J  | 5.00 U   | 5.00 U        | 79,800  | 6.70 B            | 20.0 U   | 20.0 U    | 100 U                | 5 U                  | 6 B                 |
| MW-149WT          | 7 - 17               | 06/02/04        | --         | 4,440 [4,560] | --      | --        | --        | --       | --            | --      | 1.00 U [1.00 U]   | --       | --        | --                   | --                   | --                  |
| MW-149WT          | 7 - 17               | 04/03/08        | --         | 1,570         | --      | --        | --        | --       | --            | --      | 0.180 J [1.00 U]  | --       | --        | --                   | --                   | --                  |
| MW-149WT          | 7 - 17               | 09/30/10        | --         | --            | --      | --        | --        | --       | --            | --      | 1.00 U [1.00 U]   | --       | --        | --                   | --                   | --                  |
| MW-149WT          | 7 - 17               | 09/28/11        | --         | --            | --      | --        | --        | --       | --            | --      | 0.840 [0.170]     | --       | --        | --                   | --                   | --                  |
| MW-149WT          | 7 - 17               | 09/18/12        | --         | --            | --      | --        | --        | --       | --            | --      | 0.65 J [0.32 J,B] | --       | --        | --                   | --                   | --                  |
| MW-149WT          | 7 - 17               | 09/25/13        | --         | --            | --      | --        | --        | --       | --            | --      | 1.00 U [1.00 U]   | --       | --        | --                   | --                   | --                  |
| MW-149WT          | 7 - 17               | 09/24/14        | --         | --            | --      | --        | --        | --       | --            | --      | 0.62 J [1.00 U]   | --       | --        | --                   | --                   | --                  |
| MW-149WT          | 7 - 17               | 10/01/15        | --         | --            | --      | --        | --        | --       | --            | --      | 1.0 U             | --       | --        | --                   | --                   | --                  |
| MW-149WT          | 7 - 17               | 09/29/16        | --         | --            | --      | --        | --        | --       | --            | --      | 1.0 U [1.0 U]     | --       | --        | --                   | --                   | --                  |
| MW-185WT          | 3 - 8                | 11/28/07        | --         | 291           | --      | --        | --        | --       | --            | --      | --                | --       | --        | --                   | --                   | --                  |
| MW-185WT          | 3 - 8                | 09/18/12        | --         | 700           | --      | --        | --        | --       | --            | --      | --                | --       | --        | --                   | --                   | --                  |
| MW-185WT          | 3 - 8                | 09/25/13        | --         | 400           | --      | --        | --        | --       | --            | --      | --                | --       | --        | --                   | --                   | --                  |
| MW-185WT          | 3 - 8                | 09/24/14        | --         | 320           | --      | --        | --        | --       | --            | --      | --                | --       | --        | --                   | --                   | --                  |
| MW-185WT          | 3 - 8                | 10/01/15        | --         | 330           | --      | --        | --        | --       | --            | --      | 0.22 J            | --       | --        | --                   | --                   | --                  |
| MW-185WT          | 3 - 8                | 09/30/16        | --         | 150           | --      | --        | --        | --       | --            | --      | 1.0 U             | --       | --        | --                   | --                   | --                  |
| MW-186WT          | UNKNOWN              | 09/30/10        | --         | 252           | --      | --        | --        | --       | --            | --      | --                | --       | --        | --                   | --                   | --                  |
| MW-186WT          | UNKNOWN              | 09/23/11        | --         | 450           | --      | --        | --        | --       | --            | --      | --                | --       | --        | --                   | --                   | --                  |
| MW-186WT          | UNKNOWN              | 09/18/12        | --         | 400           | --      | --        | --        | --       | --            | --      | --                | --       | --        | --                   | --                   | --                  |
| MW-186WT          | UNKNOWN              | 09/25/13        | --         | 1,100         | --      | --        | --        | --       | --            | --      | --                | --       | --        | --                   | --                   | --                  |
| MW-186WT          | UNKNOWN              | 09/24/14        | --         | 2,100         | --      | --        | --        | --       | --            | --      | --                | --       | --        | --                   | --                   | --                  |
| MW-186WT          | UNKNOWN              | 10/02/15        | --         | 1,400         | --      | --        | --        | --       | --            | --      | 0.076 J           | --       | --        | --                   | --                   | --                  |
| MW-186WT          | UNKNOWN              | 09/30/16        | --         | --            | --      | --        | --        | --       | --            | --      | NA                | --       | --        | --                   | --                   | --                  |
| MW-186WT          | UNKNOWN              | 09/30/16        | --         | 1,800         | --      | --        | --        | --       | --            | --      | 0.39 J            | --       | --        | --                   | --                   | --                  |

Table 2  
Analytical Data Summary Table - SMI Inorganics  
Saginaw, MI  
RACER Trust

| Sample ID:        | Sample Depth (feet): | Date Collected: | Inorganics-Dissolved  |                          |                        |                        |                               |                       |                       |                        |                     |                     |                          |                          |                        |                       |
|-------------------|----------------------|-----------------|-----------------------|--------------------------|------------------------|------------------------|-------------------------------|-----------------------|-----------------------|------------------------|---------------------|---------------------|--------------------------|--------------------------|------------------------|-----------------------|
|                   |                      |                 | Barium<br>(Dissolved) | Beryllium<br>(Dissolved) | Cadmium<br>(Dissolved) | Calcium<br>(Dissolved) | Chromium<br>Total (Dissolved) | Cobalt<br>(Dissolved) | Copper<br>(Dissolved) | Cyanide<br>(Dissolved) | Iron<br>(Dissolved) | Lead<br>(Dissolved) | Magnesium<br>(Dissolved) | Manganese<br>(Dissolved) | Mercury<br>(Dissolved) | Nickel<br>(Dissolved) |
| MDEQ GSI Criteria |                      |                 | 1758.8 (G)            | 65.36 (G)                | 5.9 (G,X)              | --                     | 216 (G,X)                     | 100                   | 27.4 (G)              | 5.2                    | --                  | 57.4 (G,X)          | --                       | 6,203.8 (G,X)            | 0.0013                 | 157.3 (G)             |
| MW-107S1          | 12.5 - 17.5          | 07/12/95        | 200 U                 | 5 U                      | 0.2 U                  | 35,400                 | 50 U                          | 50 U                  | 25 U                  | --                     | 1,010               | 3 U                 | 8,530                    | 202                      | 0.2 U                  | 50 U                  |
| MW-107S1          | 12.5 - 17.5          | 06/07/96        | 200 U                 | 5 U                      | 0.5 UJ                 | 45,200                 | 50 U                          | 50 U                  | 25 U                  | 5 UJ                   | 819 U               | 3 U                 | 10,800                   | 249                      | 0.2 U                  | 50 U                  |
| MW-107S1          | 12.5 - 17.5          | 06/06/08        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-107S1          | 12.5 - 17.5          | 09/30/10        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-107S1          | 12.5 - 17.5          | 09/21/11        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-107S1          | 12.5 - 17.5          | 09/17/12        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-107S1          | 12.5 - 17.5          | 09/26/13        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-107S1          | 12.5 - 17.5          | 09/24/14        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-107S1          | 12.5 - 17.5          | 10/01/15        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-107S1          | 12.5 - 17.5          | 09/29/16        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-107WT          | 4 - 9                | 07/12/95        | 200 U                 | 5 U                      | 0.2 UJ                 | 87,800                 | 50 U                          | 50 U                  | 25 U                  | --                     | 109                 | 3 U                 | 15,300                   | 295                      | 0.2 U                  | 50 U                  |
| MW-107WT          | 4 - 9                | 06/07/96        | 200 U                 | 5 U                      | 0.5 UJ                 | 83,800                 | 50 U                          | 50 U                  | 25 U                  | 5 UJ                   | 100 U               | 3 U                 | 12,900                   | 20 U                     | 0.2 U                  | 50 U                  |
| MW-107WT          | 4 - 9                | 04/03/08        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-107WT          | 4 - 9                | 09/18/12        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-107WT          | 4 - 9                | 09/26/13        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-107WT          | 4 - 9                | 09/24/14        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-107WT          | 4 - 9                | 10/01/15        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-107WT          | 4 - 9                | 09/29/16        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-108S2          | 22 - 27              | 07/13/95        | 200 U                 | 5 U                      | 0.2 U                  | 44,200                 | 50 U                          | 50 U                  | 25 U                  | --                     | 1,060               | 3 U                 | 13,300                   | 200                      | 0.2 U                  | 50 U                  |
| MW-108S2          | 22 - 27              | 06/08/96        | 200 U                 | 5 U                      | 0.5 UJ                 | 50,500                 | 50 U                          | 50 U                  | 25 U                  | 5 UJ                   | 1,380               | 3 U                 | 13,800                   | 233                      | 0.2 U                  | 50 U                  |
| MW-108S2          | 22 - 27              | 06/06/08        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-108S2          | 22 - 27              | 09/29/10        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-108S2          | 22 - 27              | 09/21/11        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-108S2          | 22 - 27              | 09/17/12        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-108S2          | 22 - 27              | 09/26/13        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-108S2          | 22 - 27              | 09/24/14        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-108S2          | 22 - 27              | 10/01/15        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-108S2          | 22 - 27              | 09/29/16        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-108WT          | 2.5 - 7.5            | 07/13/95        | 200 U                 | 5 U                      | 0.2 U                  | 95,800                 | 50 U                          | 50 U                  | 25 U                  | --                     | 1,900               | 3 U                 | 17,400                   | 1,260                    | 0.2 U                  | 50 U                  |
| MW-108WT          | 2.5 - 7.5            | 06/08/96        | 200 U                 | 5 U                      | 0.5 UJ                 | 90,200                 | 50 U                          | 50 U                  | 25 U                  | 5 UJ                   | 2,210               | 3 U                 | 15,200                   | 968                      | 0.2 U                  | 50 U                  |
| MW-108WT          | 2.5 - 7.5            | 05/21/00        | 44.8 B                | 4 U                      | 1 U                    | 67,500                 | 5 U                           | 10 U                  | 25 U                  | --                     | 3,580               | 3 U                 | 13,900                   | 1,220                    | 0.2 U                  | 40 U                  |
| MW-108WT          | 2.5 - 7.5            | 06/02/04        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-108WT          | 2.5 - 7.5            | 09/29/16        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-110WT          | UNKNOWN              | 06/12/96        | 200 U                 | 5 U                      | 0.5 U                  | 66,600                 | 50 U                          | 50 U                  | 25 U                  | 5 U                    | 2,530 J             | 3 U                 | 12,000                   | 459                      | 0.2 U                  | 50 U                  |
| MW-110WT          | UNKNOWN              | 12/10/97        | 540                   | --                       | 0.5 U                  | --                     | 50 U                          | --                    | 25 U                  | --                     | 3,500               | 3 U                 | --                       | --                       | 0.2 U                  | 50 U                  |
| MW-110WTR         | 10 - 15              | 04/02/08        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-110WTR         | 10 - 15              | 09/24/14        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-110WTR         | 10 - 15              | 10/01/15        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-110WTR         | 10 - 15              | 09/29/16        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-110WTR         | 10 - 15              | 10/13/16        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-111WT          | 5.5 - 10.5           | 07/14/95        | 202                   | 5 U                      | 0.2 U                  | 141,000                | 50 U                          | 50 U                  | 25 U                  | --                     | 10,700              | 3                   | 23,600                   | 1,800                    | 0.2 U                  | 50 U                  |
| MW-111WT          | 5.5 - 10.5           | 06/12/96        | 451                   | 5 U                      | 0.5 U                  | 330,000                | 50 U                          | 50 U                  | 25 U                  | 5 U                    | 21,400 J            | 3 U                 | 54,000                   | 3,910                    | 0.2 U                  | 50 U                  |
| MW-111WT          | 5.5 - 10.5           | 06/30/99        | 260                   | 1 U                      | 0.2 U                  | 150,000                | 2 U                           | 20 U                  | 20 U                  | 5 U                    | 8,900 J             | 1.8                 | 27,000                   | 2,000 J                  | 0.2 U                  | 5 U                   |
| MW-111WT          | 5.5 - 10.5           | 09/02/99        | 300                   | 3.1 JM                   | 0.2 U                  | 180,000 J              | 2 U                           | 20 U                  | 7 U                   | 5 U                    | 16,000              | 1 U                 | 29,000 J                 | 2,200                    | 0.2 U                  | 50 U                  |
| MW-111WT          | 5.5 - 10.5           | 05/19/00        | 376                   | 4 U                      | 1 U                    | 379,000                | 5 U                           | 10 U                  | 25 U                  | --                     | 14,400              | 3 U                 | 54,300                   | 2,340                    | 0.2 U                  | 40 U                  |
| MW-111WT          | 5.5 - 10.5           | 06/02/04        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-111WT          | 5.5 - 10.5           | 08/26/05        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | 1,610 [1,460]            | --                     | --                    |
| MW-111WT          | 5.5 - 10.5           | 04/02/08        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       |                          | --                     | --                    |
| MW-111WT          | 5.5 - 10.5           | 09/18/12        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       |                          | --                     | --                    |
| MW-111WT          | 5.5 - 10.5           | 09/26/13        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       |                          | --                     | --                    |
| MW-111WT          | 5.5 - 10.5           | 09/23/14        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       |                          | --                     | --                    |
| MW-111WT          | 5.5 - 10.5           | 10/01/15        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       |                          | --                     | --                    |
| MW-111WT          | 5.5 - 10.5           | 09/29/16        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |



Table 2  
Analytical Data Summary Table - SMI Inorganics  
Saginaw, MI  
RACER Trust

| Sample ID:        | Sample Depth (feet): | Date Collected: | Inorganics-Dissolved  |                          |                        |                        |                               |                       |                       |                        |                     |                     |                          |                          |                        |                       |
|-------------------|----------------------|-----------------|-----------------------|--------------------------|------------------------|------------------------|-------------------------------|-----------------------|-----------------------|------------------------|---------------------|---------------------|--------------------------|--------------------------|------------------------|-----------------------|
|                   |                      |                 | Barium<br>(Dissolved) | Beryllium<br>(Dissolved) | Cadmium<br>(Dissolved) | Calcium<br>(Dissolved) | Chromium<br>Total (Dissolved) | Cobalt<br>(Dissolved) | Copper<br>(Dissolved) | Cyanide<br>(Dissolved) | Iron<br>(Dissolved) | Lead<br>(Dissolved) | Magnesium<br>(Dissolved) | Manganese<br>(Dissolved) | Mercury<br>(Dissolved) | Nickel<br>(Dissolved) |
| MDEQ GSI Criteria |                      |                 | 1758.8 (G)            | 65.36 (G)                | 5.9 (G,X)              | --                     | 216 (G,X)                     | 100                   | 27.4 (G)              | 5.2                    | --                  | 57.4 (G,X)          | --                       | 6,203.8 (G,X)            | 0.0013                 | 157.3 (G)             |
| MW-114S2          | 22.5 - 27.5          | 07/17/95        | 200 U                 | 5 U                      | 0.2 U                  | 61,000                 | 50 U                          | 50 U                  | 25 U                  | --                     | 1,360               | 3 U                 | 13,000                   | 436                      | 0.2 U                  | 50 U                  |
| MW-114S2          | 22.5 - 27.5          | 06/07/96        | 200 U                 | 5 U                      | 0.5 UJ                 | 53,100                 | 50 U                          | 50 U                  | 25 U                  | 5 UJ                   | 1,260 U             | 3 U                 | 11,800                   | 382                      | 0.2 U                  | 50 U                  |
| MW-114S2          | 22.5 - 27.5          | 06/06/08        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-114S2          | 22.5 - 27.5          | 09/29/10        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-114S2          | 22.5 - 27.5          | 09/22/11        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-114S2          | 22.5 - 27.5          | 09/18/12        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-114S2          | 22.5 - 27.5          | 09/25/13        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-114S2          | 22.5 - 27.5          | 09/23/14        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-114S2          | 22.5 - 27.5          | 10/02/15        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-114S2          | 22.5 - 27.5          | 09/29/16        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-114WT          | 3.5 - 8.5            | 06/08/96        | 570                   | 5 U                      | 0.5 U                  | 866,000                | 50 U                          | 50 U                  | 25 U                  | 5 UJ                   | 117                 | 3 U                 | 129,000                  | 1,620                    | 0.2 U                  | 50 U                  |
| MW-114WT          | 3.5 - 8.5            | 12/11/97        | 250                   | --                       | 0.5 U                  | --                     | 75                            | --                    | 61                    | --                     | 53,000              | 3 U                 | --                       | --                       | 0.2 U                  | 150                   |
| MW-114WT          | 3.5 - 8.5            | 05/22/00        | 92 B                  | 4 U                      | 1 U                    | 609,000                | 5 U                           | 10 U                  | 25 U                  | --                     | 100 U               | 3 U                 | 65,700                   | 518                      | 0.2 U                  | 40 U                  |
| MW-114WT          | 3.5 - 8.5            | 09/26/13        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-114WT          | 3.5 - 8.5            | 09/23/14        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-114WT          | 3.5 - 8.5            | 10/02/15        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-114WT          | 3.5 - 8.5            | 09/29/16        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-149WT          | 7 - 17               | 06/12/96        | 200 U                 | 5 U                      | 0.5 U                  | 100,000                | 50 U                          | 50 U                  | 25 U                  | 5 U                    | 20,300 J            | 3 U                 | 17,000                   | 3,180                    | 0.2 U                  | 50 U                  |
| MW-149WT          | 7 - 17               | 05/21/00        | 112                   | 4 U                      | 1 U                    | 118,000                | 5 U                           | 10 U                  | 25 U                  | --                     | 4,420               | 3 U                 | 21,600                   | 915                      | 0.2 U                  | 40 U                  |
| MW-149WT          | 7 - 17               | 06/02/04        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-149WT          | 7 - 17               | 04/03/08        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-149WT          | 7 - 17               | 09/30/10        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-149WT          | 7 - 17               | 09/28/11        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-149WT          | 7 - 17               | 09/18/12        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-149WT          | 7 - 17               | 09/25/13        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-149WT          | 7 - 17               | 09/24/14        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-149WT          | 7 - 17               | 10/01/15        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-149WT          | 7 - 17               | 09/29/16        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-185WT          | 3 - 8                | 11/28/07        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-185WT          | 3 - 8                | 09/18/12        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-185WT          | 3 - 8                | 09/25/13        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-185WT          | 3 - 8                | 09/24/14        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-185WT          | 3 - 8                | 10/01/15        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-185WT          | 3 - 8                | 09/30/16        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-186WT          | UNKNOWN              | 09/30/10        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-186WT          | UNKNOWN              | 09/23/11        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-186WT          | UNKNOWN              | 09/18/12        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-186WT          | UNKNOWN              | 09/25/13        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-186WT          | UNKNOWN              | 09/24/14        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-186WT          | UNKNOWN              | 10/02/15        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-186WT          | UNKNOWN              | 09/30/16        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |
| MW-186WT          | UNKNOWN              | 09/30/16        | --                    | --                       | --                     | --                     | --                            | --                    | --                    | --                     | --                  | --                  | --                       | --                       | --                     | --                    |

Table 2  
Analytical Data Summary Table - SMI Inorganics  
Saginaw, MI  
RACER Trust

| Sample ID:        | Sample Depth (feet): | Date Collected: | Inorganics-Dissolved  |                      |                    |                    |                      |                      |                  | Miscellaneous         |                  |                                 |         |                   |                              |
|-------------------|----------------------|-----------------|-----------------------|----------------------|--------------------|--------------------|----------------------|----------------------|------------------|-----------------------|------------------|---------------------------------|---------|-------------------|------------------------------|
|                   |                      |                 | Potassium (Dissolved) | Selenium (Dissolved) | Silver (Dissolved) | Sodium (Dissolved) | Thallium (Dissolved) | Vanadium (Dissolved) | Zinc (Dissolved) | Alkalinity, Carbonate | Ammonia Nitrogen | Biochemical Oxygen Demand (BOD) | Bromide | Calcium Carbonate | Chemical Oxygen Demand (COD) |
| MDEQ GSI Criteria |                      |                 | --                    | 5                    | 0.2 (M); 0.06      | NA                 | 3.7 (X)              | 27                   | 358.0 (G)        | --                    | (CC)             | --                              | --      | --                | --                           |
| MW-107S1          | 12.5 - 17.5          | 07/12/95        | 5,000 U               | 5 U                  | 0.5 U              | 101,000            | 2 UJ                 | 20 U                 | 20 U             | --                    | --               | --                              | --      | --                | --                           |
| MW-107S1          | 12.5 - 17.5          | 06/07/96        | 5,000 U               | 5 U                  | 0.5 UJ             | 106,000            | 2 UJ                 | 20 U                 | 20 U             | --                    | --               | --                              | --      | --                | --                           |
| MW-107S1          | 12.5 - 17.5          | 06/06/08        | --                    | --                   | --                 | --                 | --                   | --                   | --               | --                    | 1,200 J          | --                              | --      | --                | --                           |
| MW-107S1          | 12.5 - 17.5          | 09/30/10        | --                    | --                   | --                 | --                 | --                   | --                   | --               | --                    | 1,200            | --                              | --      | --                | --                           |
| MW-107S1          | 12.5 - 17.5          | 09/21/11        | --                    | --                   | --                 | --                 | --                   | --                   | --               | --                    | 1,400            | --                              | --      | --                | --                           |
| MW-107S1          | 12.5 - 17.5          | 09/17/12        | --                    | --                   | --                 | --                 | --                   | --                   | --               | --                    | 1,400            | --                              | --      | --                | --                           |
| MW-107S1          | 12.5 - 17.5          | 09/26/13        | --                    | --                   | --                 | --                 | --                   | --                   | --               | --                    | 1,400 B          | --                              | --      | --                | --                           |
| MW-107S1          | 12.5 - 17.5          | 09/24/14        | --                    | --                   | --                 | --                 | --                   | --                   | --               | --                    | 1,700 B          | --                              | --      | --                | --                           |
| MW-107S1          | 12.5 - 17.5          | 10/01/15        | --                    | --                   | --                 | --                 | --                   | --                   | --               | --                    | 1,400            | --                              | --      | --                | --                           |
| MW-107S1          | 12.5 - 17.5          | 09/29/16        | --                    | --                   | --                 | --                 | --                   | --                   | --               | --                    | 1,500            | --                              | --      | --                | --                           |
| MW-107WT          | 4 - 9                | 07/12/95        | 7,380                 | 5 U                  | 0.5 U              | 70,300             | 2 UJ                 | 20 U                 | 20 U             | --                    | --               | --                              | --      | --                | --                           |
| MW-107WT          | 4 - 9                | 06/07/96        | 5,820                 | 5 U                  | 0.5 U              | 55,100             | 4 UJ                 | 20 U                 | 20 U             | --                    | --               | --                              | --      | --                | --                           |
| MW-107WT          | 4 - 9                | 04/03/08        | --                    | --                   | --                 | --                 | --                   | --                   | --               | --                    | 300              | --                              | --      | --                | --                           |
| MW-107WT          | 4 - 9                | 09/18/12        | --                    | --                   | --                 | --                 | --                   | --                   | --               | --                    | 62 J             | --                              | --      | --                | --                           |
| MW-107WT          | 4 - 9                | 09/26/13        | --                    | --                   | --                 | --                 | --                   | --                   | --               | --                    | 880 B            | --                              | --      | --                | --                           |
| MW-107WT          | 4 - 9                | 09/24/14        | --                    | --                   | --                 | --                 | --                   | --                   | --               | --                    | 1,300 B          | --                              | --      | --                | --                           |
| MW-107WT          | 4 - 9                | 10/01/15        | --                    | --                   | --                 | --                 | --                   | --                   | --               | --                    | 1,200            | --                              | --      | --                | --                           |
| MW-107WT          | 4 - 9                | 09/29/16        | --                    | --                   | --                 | --                 | --                   | --                   | --               | --                    | 1,400            | --                              | --      | --                | --                           |
| MW-108S2          | 22 - 27              | 07/13/95        | 5,000 U               | 5 U                  | 0.5 U              | 306,000            | 2 UJ                 | 20 U                 | 20 U             | --                    | --               | --                              | --      | --                | --                           |
| MW-108S2          | 22 - 27              | 06/08/96        | 5,000 U               | 5 U                  | 0.5 U              | 234,000            | 2 UJ                 | 20 U                 | 21.7 U           | --                    | --               | --                              | --      | --                | --                           |
| MW-108S2          | 22 - 27              | 06/06/08        | --                    | --                   | --                 | --                 | --                   | --                   | --               | --                    | 3,500 J          | --                              | --      | --                | --                           |
| MW-108S2          | 22 - 27              | 09/29/10        | --                    | --                   | --                 | --                 | --                   | --                   | --               | --                    | 4,600            | --                              | --      | --                | --                           |
| MW-108S2          | 22 - 27              | 09/21/11        | --                    | --                   | --                 | --                 | --                   | --                   | --               | --                    | 4,900            | --                              | --      | --                | --                           |
| MW-108S2          | 22 - 27              | 09/17/12        | --                    | --                   | --                 | --                 | --                   | --                   | --               | --                    | 6,200            | --                              | --      | --                | --                           |
| MW-108S2          | 22 - 27              | 09/26/13        | --                    | --                   | --                 | --                 | --                   | --                   | --               | --                    | 5,300 B          | --                              | --      | --                | --                           |
| MW-108S2          | 22 - 27              | 09/24/14        | --                    | --                   | --                 | --                 | --                   | --                   | --               | --                    | 4,600 B          | --                              | --      | --                | --                           |
| MW-108S2          | 22 - 27              | 10/01/15        | --                    | --                   | --                 | --                 | --                   | --                   | --               | --                    | 7,700            | --                              | --      | --                | --                           |
| MW-108S2          | 22 - 27              | 09/29/16        | --                    | --                   | --                 | --                 | --                   | --                   | --               | --                    | 5,400            | --                              | --      | --                | --                           |
| MW-108WT          | 2.5 - 7.5            | 07/13/95        | 9,780                 | 5 U                  | 0.5 U              | 61,800             | 2 U                  | 20 U                 | 20 U             | --                    | --               | --                              | --      | --                | --                           |
| MW-108WT          | 2.5 - 7.5            | 06/08/96        | 10,800                | 5 U                  | 0.5 U              | 60,100             | 4 UJ                 | 20 U                 | 20 UJ            | --                    | --               | --                              | --      | --                | --                           |
| MW-108WT          | 2.5 - 7.5            | 05/21/00        | 8,750 J               | 5 U                  | 5 U                | 101,000            | 5.3 B                | 20 U                 | 20 U             | --                    | --               | --                              | --      | --                | --                           |
| MW-108WT          | 2.5 - 7.5            | 06/02/04        | --                    | --                   | --                 | --                 | --                   | --                   | --               | --                    | --               | --                              | --      | --                | --                           |
| MW-108WT          | 2.5 - 7.5            | 09/29/16        | --                    | --                   | --                 | --                 | --                   | --                   | --               | --                    | 60 J             | --                              | --      | --                | --                           |
| MW-110WT          | UNKNOWN              | 06/12/96        | 5,000 U               | 5 U                  | 0.5 U              | 34,800             | 2 UJ                 | 20 U                 | 22 U             | --                    | --               | --                              | --      | --                | --                           |
| MW-110WT          | UNKNOWN              | 12/10/97        | --                    | 5.6                  | 0.5 U              | --                 | --                   | --                   | 21               | --                    | --               | --                              | --      | --                | --                           |
| MW-110WTR         | 10 - 15              | 04/02/08        | --                    | --                   | --                 | --                 | --                   | --                   | --               | --                    | 90 J             | --                              | --      | --                | --                           |
| MW-110WTR         | 10 - 15              | 09/24/14        | --                    | --                   | --                 | --                 | --                   | --                   | --               | --                    | 100 J,B          | --                              | --      | --                | --                           |
| MW-110WTR         | 10 - 15              | 10/01/15        | --                    | --                   | --                 | --                 | --                   | --                   | --               | --                    | 200 U            | --                              | --      | --                | --                           |
| MW-110WTR         | 10 - 15              | 09/29/16        | --                    | --                   | --                 | --                 | --                   | --                   | --               | --                    | 130 JB           | --                              | --      | --                | --                           |
| MW-110WTR         | 10 - 15              | 10/13/16        | --                    | --                   | --                 | --                 | --                   | --                   | --               | --                    | --               | --                              | --      | --                | --                           |
| MW-111WT          | 5.5 - 10.5           | 07/14/95        | 6,550                 | 5 U                  | 0.5 U              | 65,300             | 2 U                  | 20 U                 | R                | --                    | --               | --                              | --      | --                | --                           |
| MW-111WT          | 5.5 - 10.5           | 06/12/96        | 9,910                 | 5 U                  | 0.5 UJ             | 142,000            | 2 UJ                 | 20 U                 | 20 U             | --                    | --               | --                              | --      | --                | --                           |
| MW-111WT          | 5.5 - 10.5           | 06/30/99        | 5,600 J               | 2 U                  | 0.5 UJ             | 74,000 J           | 1 U                  | 10 U                 | 20 U             | --                    | 2,700            | 2,000 U                         | --      | 340,000           | 43,000                       |
| MW-111WT          | 5.5 - 10.5           | 09/02/99        | 8,100                 | 2 U                  | 0.5 U              | 69,000 J           | 1 U                  | 10 U                 | 13               | --                    | 3,100            | --                              | 1,000   | 370,000           | --                           |
| MW-111WT          | 5.5 - 10.5           | 05/19/00        | 18,500                | 5 U                  | 5 U                | 196,000            | 7.6 B                | 20 U                 | 20 U             | --                    | --               | --                              | --      | --                | --                           |
| MW-111WT          | 5.5 - 10.5           | 06/02/04        | --                    | --                   | --                 | --                 | --                   | --                   | --               | --                    | --               | --                              | --      | --                | --                           |
| MW-111WT          | 5.5 - 10.5           | 08/26/05        | --                    | --                   | --                 | --                 | --                   | --                   | --               | --                    | --               | --                              | --      | --                | --                           |
| MW-111WT          | 5.5 - 10.5           | 04/02/08        | --                    | --                   | --                 | --                 | --                   | --                   | --               | --                    | 500 [500]        | --                              | --      | --                | --                           |
| MW-111WT          | 5.5 - 10.5           | 09/18/12        | --                    | --                   | --                 | --                 | --                   | --                   | --               | --                    | 1,600            | --                              | --      | --                | --                           |
| MW-111WT          | 5.5 - 10.5           | 09/26/13        | --                    | --                   | --                 | --                 | --                   | --                   | --               | --                    | 1400 B           | --                              | --      | --                | --                           |
| MW-111WT          | 5.5 - 10.5           | 09/23/14        | --                    | --                   | --                 | --                 | --                   | --                   | --               | --                    | 1700             | --                              | --      | --                | --                           |
| MW-111WT          | 5.5 - 10.5           | 10/01/15        | --                    | --                   | --                 | --                 | --                   | --                   | --               | --                    | 1,400            | --                              | --      | --                | --                           |
| MW-111WT          | 5.5 - 10.5           | 09/29/16        | --                    | --                   | --                 | --                 | --                   | --                   | --               | --                    | 2,900            | --                              | --      | --                | --                           |



Table 2  
Analytical Data Summary Table - SMI Inorganics  
Saginaw, MI  
RACER Trust

| Sample ID:        | Sample Depth (feet): | Date Collected: | Inorganics-Dissolved  |                      |                    |                    |                      |                      |                  | Miscellaneous         |                   |                                 |         |                   |                              |
|-------------------|----------------------|-----------------|-----------------------|----------------------|--------------------|--------------------|----------------------|----------------------|------------------|-----------------------|-------------------|---------------------------------|---------|-------------------|------------------------------|
|                   |                      |                 | Potassium (Dissolved) | Selenium (Dissolved) | Silver (Dissolved) | Sodium (Dissolved) | Thallium (Dissolved) | Vanadium (Dissolved) | Zinc (Dissolved) | Alkalinity, Carbonate | Ammonia Nitrogen  | Biochemical Oxygen Demand (BOD) | Bromide | Calcium Carbonate | Chemical Oxygen Demand (COD) |
| MDEQ GSI Criteria |                      |                 | --                    | 5                    | 0.2 (M); 0.06      | NA                 | 3.7 (X)              | 27                   | 358.0 (G)        | --                    | (CC)              | --                              | --      | --                | --                           |
| MW-114S2          | 22.5 - 27.5          | 07/17/95        | 5,000 U               | 5 U                  | 0.5 U              | 30,900             | 2 U                  | 20 U                 | 20 U             | --                    | --                | --                              | --      | --                | --                           |
| MW-114S2          | 22.5 - 27.5          | 06/07/96        | 5,000 U               | 5 U                  | 0.5 U              | 29,200             | 2 UJ                 | 20 U                 | 20 U             | --                    | --                | --                              | --      | --                | --                           |
| MW-114S2          | 22.5 - 27.5          | 06/06/08        | --                    | --                   | --                 | --                 | --                   | --                   | --               | --                    | 2,500 J           | --                              | --      | --                | --                           |
| MW-114S2          | 22.5 - 27.5          | 09/29/10        | --                    | --                   | --                 | --                 | --                   | --                   | --               | --                    | 2,300 [2,200]     | --                              | --      | --                | --                           |
| MW-114S2          | 22.5 - 27.5          | 09/22/11        | --                    | --                   | --                 | --                 | --                   | --                   | --               | --                    | 3,000 [3,000]     | --                              | --      | --                | --                           |
| MW-114S2          | 22.5 - 27.5          | 09/18/12        | --                    | --                   | --                 | --                 | --                   | --                   | --               | --                    | 2,900 [2,800]     | --                              | --      | --                | --                           |
| MW-114S2          | 22.5 - 27.5          | 09/25/13        | --                    | --                   | --                 | --                 | --                   | --                   | --               | --                    | 3,800 B [3,800 B] | --                              | --      | --                | --                           |
| MW-114S2          | 22.5 - 27.5          | 09/23/14        | --                    | --                   | --                 | --                 | --                   | --                   | --               | --                    | 5,000^ [5,500^]   | --                              | --      | --                | --                           |
| MW-114S2          | 22.5 - 27.5          | 10/02/15        | --                    | --                   | --                 | --                 | --                   | --                   | --               | --                    | 2,200 [2,800]     | --                              | --      | --                | --                           |
| MW-114S2          | 22.5 - 27.5          | 09/29/16        | --                    | --                   | --                 | --                 | --                   | --                   | --               | --                    | 2,700             | --                              | --      | --                | --                           |
| MW-114WT          | 3.5 - 8.5            | 06/08/96        | 17,900                | 5 U                  | 0.5 U              | 200,000            | 10 UJ                | 20 U                 | 28 U             | --                    | --                | --                              | --      | --                | --                           |
| MW-114WT          | 3.5 - 8.5            | 12/11/97        | --                    | 5 U                  | 0.5 U              | --                 | --                   | --                   | 310              | --                    | --                | --                              | --      | --                | --                           |
| MW-114WT          | 3.5 - 8.5            | 05/22/00        | 17,000                | 5 U                  | 5 U                | 218,000            | 10 U                 | 20 U                 | 20 U             | --                    | --                | --                              | --      | --                | --                           |
| MW-114WT          | 3.5 - 8.5            | 09/26/13        | --                    | --                   | --                 | --                 | --                   | --                   | --               | --                    | 66 J,B            | --                              | --      | --                | --                           |
| MW-114WT          | 3.5 - 8.5            | 09/23/14        | --                    | --                   | --                 | --                 | --                   | --                   | --               | --                    | 200 U             | --                              | --      | --                | --                           |
| MW-114WT          | 3.5 - 8.5            | 10/02/15        | --                    | --                   | --                 | --                 | --                   | --                   | --               | --                    | 200 U [820]       | --                              | --      | --                | --                           |
| MW-114WT          | 3.5 - 8.5            | 09/29/16        | --                    | --                   | --                 | --                 | --                   | --                   | --               | --                    | 200 U             | --                              | --      | --                | --                           |
| MW-149WT          | 7 - 17               | 06/12/96        | 5,000 U               | 5 U                  | 0.5 U              | 29,600             | 2 UJ                 | 20 U                 | 109 U            | --                    | --                | --                              | --      | --                | --                           |
| MW-149WT          | 7 - 17               | 05/21/00        | 24,000 J              | 5 U                  | 5 U                | 80,700             | 6.4 B                | 20 U                 | 20 U             | --                    | --                | --                              | --      | --                | --                           |
| MW-149WT          | 7 - 17               | 06/02/04        | --                    | --                   | --                 | --                 |                      | --                   | --               | --                    | --                | --                              | --      | --                | --                           |
| MW-149WT          | 7 - 17               | 04/03/08        | --                    | --                   | --                 | --                 |                      | --                   | --               | --                    | 800               | --                              | --      | --                | --                           |
| MW-149WT          | 7 - 17               | 09/30/10        | --                    | --                   | --                 | --                 |                      | --                   | --               | --                    | 3,600             | --                              | --      | --                | --                           |
| MW-149WT          | 7 - 17               | 09/28/11        | --                    | --                   | --                 | --                 |                      | --                   | --               | --                    | 4,700             | --                              | --      | --                | --                           |
| MW-149WT          | 7 - 17               | 09/18/12        | --                    | --                   | --                 | --                 |                      | --                   | --               | --                    | 5,000             | --                              | --      | --                | --                           |
| MW-149WT          | 7 - 17               | 09/25/13        | --                    | --                   | --                 | --                 |                      | --                   | --               | --                    | 4,600 B           | --                              | --      | --                | --                           |
| MW-149WT          | 7 - 17               | 09/24/14        | --                    | --                   | --                 | --                 |                      | --                   | --               | --                    | 3,200 B           | --                              | --      | --                | --                           |
| MW-149WT          | 7 - 17               | 10/01/15        | --                    | --                   | --                 | --                 |                      | --                   | --               | --                    | 3,000             | --                              | --      | --                | --                           |
| MW-149WT          | 7 - 17               | 09/29/16        | --                    | --                   | --                 | --                 |                      | --                   | --               | --                    | 1,200             | --                              | --      | --                | --                           |
| MW-185WT          | 3 - 8                | 11/28/07        | --                    | --                   | --                 | --                 |                      | --                   | --               | --                    | 300 U [300 U]     | --                              | --      | --                | --                           |
| MW-185WT          | 3 - 8                | 09/18/12        | --                    | --                   | --                 | --                 |                      | --                   | --               | --                    | 380               | --                              | --      | --                | --                           |
| MW-185WT          | 3 - 8                | 09/25/13        | --                    | --                   | --                 | --                 |                      | --                   | --               | --                    | 400 B             | --                              | --      | --                | --                           |
| MW-185WT          | 3 - 8                | 09/24/14        | --                    | --                   | --                 | --                 |                      | --                   | --               | --                    | 160 J,B           | --                              | --      | --                | --                           |
| MW-185WT          | 3 - 8                | 10/01/15        | --                    | --                   | --                 | --                 |                      | --                   | --               | --                    | 190 J             | --                              | --      | --                | --                           |
| MW-185WT          | 3 - 8                | 09/30/16        | --                    | --                   | --                 | --                 |                      | --                   | --               | --                    | 97 J              | --                              | --      | --                | --                           |
| MW-186WT          | UNKNOWN              | 09/30/10        | --                    | --                   | --                 | --                 |                      | --                   | --               | --                    | 1,500             | --                              | --      | --                | --                           |
| MW-186WT          | UNKNOWN              | 09/23/11        | --                    | --                   | --                 | --                 |                      | --                   | --               | --                    | 2,100             | --                              | --      | --                | --                           |
| MW-186WT          | UNKNOWN              | 09/18/12        | --                    | --                   | --                 | --                 |                      | --                   | --               | --                    | 2,100             | --                              | --      | --                | --                           |
| MW-186WT          | UNKNOWN              | 09/25/13        | --                    | --                   | --                 | --                 |                      | --                   | --               | --                    | 2,000 B           | --                              | --      | --                | --                           |
| MW-186WT          | UNKNOWN              | 09/24/14        | --                    | --                   | --                 | --                 |                      | --                   | --               | --                    | 2,000 B           | --                              | --      | --                | --                           |
| MW-186WT          | UNKNOWN              | 10/02/15        | --                    | --                   | --                 | --                 |                      | --                   | --               | --                    | 1,600             | --                              | --      | --                | --                           |
| MW-186WT          | UNKNOWN              | 09/30/16        | --                    | --                   | --                 | --                 |                      | --                   | --               | --                    | --                | --                              | --      | --                | --                           |
| MW-186WT          | UNKNOWN              | 09/30/16        | --                    | --                   | --                 | --                 |                      | --                   | --               | --                    | 1,500             | --                              | --      | --                | --                           |

Table 2  
Analytical Data Summary Table - SMI Inorganics  
Saginaw, MI  
RACER Trust

| Sample ID:        | Sample Depth (feet): | Date Collected: | Miscellaneous |                              |              |        |           |                |                |          |                |            |           |           |             |                              |
|-------------------|----------------------|-----------------|---------------|------------------------------|--------------|--------|-----------|----------------|----------------|----------|----------------|------------|-----------|-----------|-------------|------------------------------|
|                   |                      |                 | Chloride      | Estimated Un-ionized Ammonia | Ferrous Iron | Iron   | Manganese | Nitrate (as N) | Nitrite (as N) | Nitrogen | Oil and Grease | Phosphorus | Sulfate   | Sulfide   | Surfactants | Total Dissolved Solids (TDS) |
| MDEQ GSI Criteria |                      |                 | --            |                              | --           | --     | --        | --             | --             | --       | --             | 1,000      | --        | --        | --          | --                           |
| MW-107S1          | 12.5 - 17.5          | 07/12/95        | --            | --                           | --           | --     | --        | --             | --             | --       | --             | --         | --        | --        | --          | --                           |
| MW-107S1          | 12.5 - 17.5          | 06/07/96        | --            | --                           | --           | --     | --        | --             | --             | --       | --             | --         | --        | --        | --          | 800,000 J                    |
| MW-107S1          | 12.5 - 17.5          | 06/06/08        | --            | 86.4 J                       | --           | --     | --        | --             | --             | --       | --             | --         | --        | --        | --          |                              |
| MW-107S1          | 12.5 - 17.5          | 09/30/10        | --            | --                           | --           | --     | --        | --             | --             | --       | --             | --         | --        | --        | --          |                              |
| MW-107S1          | 12.5 - 17.5          | 09/21/11        | --            | --                           | --           | --     | --        | --             | --             | --       | --             | --         | --        | --        | --          |                              |
| MW-107S1          | 12.5 - 17.5          | 09/17/12        | --            | --                           | --           | --     | --        | --             | --             | --       | --             | --         | --        | --        | --          |                              |
| MW-107S1          | 12.5 - 17.5          | 09/26/13        | --            | --                           | --           | --     | --        | --             | --             | --       | --             | --         | --        | --        | --          |                              |
| MW-107S1          | 12.5 - 17.5          | 09/24/14        | --            | --                           | --           | --     | --        | --             | --             | --       | --             | --         | --        | --        | --          |                              |
| MW-107S1          | 12.5 - 17.5          | 10/01/15        | --            | --                           | --           | --     | --        | --             | --             | --       | --             | --         | --        | --        | --          |                              |
| MW-107S1          | 12.5 - 17.5          | 09/29/16        | --            | --                           | --           | --     | --        | --             | --             | --       | --             | NA         | --        | --        | --          |                              |
| MW-107WT          | 4 - 9                | 07/12/95        | --            | --                           | --           | --     | --        | --             | --             | --       | --             | --         | --        | --        | --          | --                           |
| MW-107WT          | 4 - 9                | 06/07/96        | --            | --                           | --           | --     | --        | --             | --             | --       | --             | --         | --        | --        | --          | --                           |
| MW-107WT          | 4 - 9                | 04/03/08        | --            | 21.6                         | --           | --     | --        | --             | --             | --       | --             | 30 J       | --        | --        | --          | --                           |
| MW-107WT          | 4 - 9                | 09/18/12        | --            | --                           | --           | --     | --        | --             | --             | --       | --             | 100 U      | --        | --        | --          | --                           |
| MW-107WT          | 4 - 9                | 09/26/13        | --            | --                           | --           | --     | --        | --             | --             | --       | --             | 100        | --        | --        | --          | --                           |
| MW-107WT          | 4 - 9                | 09/24/14        | --            | --                           | --           | --     | --        | --             | --             | --       | --             | 100 U      | --        | --        | --          | --                           |
| MW-107WT          | 4 - 9                | 10/01/15        | --            | --                           | --           | --     | --        | --             | --             | --       | --             | 100 U      | --        | --        | --          | --                           |
| MW-107WT          | 4 - 9                | 09/29/16        | --            | --                           | --           | --     | --        | --             | --             | --       | --             | 100 U      | --        | --        | --          | --                           |
| MW-108S2          | 22 - 27              | 07/13/95        | --            | --                           | --           | --     | --        | --             | --             | --       | --             | --         | --        | --        | --          | --                           |
| MW-108S2          | 22 - 27              | 06/08/96        | --            | --                           | --           | --     | --        | --             | --             | --       | --             | --         | --        | --        | --          | 910,000 J                    |
| MW-108S2          | 22 - 27              | 06/06/08        | --            | 252 J                        | --           | --     | --        | --             | --             | --       | --             | --         | --        | --        | --          |                              |
| MW-108S2          | 22 - 27              | 09/29/10        | --            | --                           | --           | --     | --        | --             | --             | --       | --             | --         | --        | --        | --          |                              |
| MW-108S2          | 22 - 27              | 09/21/11        | --            | --                           | --           | --     | --        | --             | --             | --       | --             | --         | --        | --        | --          |                              |
| MW-108S2          | 22 - 27              | 09/17/12        | --            | --                           | --           | --     | --        | --             | --             | --       | --             | --         | --        | --        | --          |                              |
| MW-108S2          | 22 - 27              | 09/26/13        | --            | --                           | --           | --     | --        | --             | --             | --       | --             | --         | --        | --        | --          |                              |
| MW-108S2          | 22 - 27              | 09/24/14        | --            | --                           | --           | --     | --        | --             | --             | --       | --             | --         | --        | --        | --          |                              |
| MW-108S2          | 22 - 27              | 10/01/15        | --            | --                           | --           | --     | --        | --             | --             | --       | --             | --         | --        | --        | --          |                              |
| MW-108S2          | 22 - 27              | 09/29/16        | --            | --                           | --           | --     | --        | --             | --             | --       | --             | NA         | --        | --        | --          |                              |
| MW-108WT          | 2.5 - 7.5            | 07/13/95        | --            | --                           | --           | --     | --        | --             | --             | --       | --             | --         | --        | --        | --          | --                           |
| MW-108WT          | 2.5 - 7.5            | 06/08/96        | --            | --                           | --           | --     | --        | --             | --             | --       | --             | --         | --        | --        | --          | --                           |
| MW-108WT          | 2.5 - 7.5            | 05/21/00        | --            | --                           | --           | --     | --        | --             | --             | --       | --             | --         | --        | --        | --          | --                           |
| MW-108WT          | 2.5 - 7.5            | 06/02/04        | --            | --                           | --           | --     | --        | --             | --             | --       | --             | --         | --        | --        | --          | --                           |
| MW-108WT          | 2.5 - 7.5            | 09/29/16        | --            | --                           | --           | --     | --        | --             | --             | --       | --             | 100 U      | --        | --        | --          | --                           |
| MW-110WT          | UNKNOWN              | 06/12/96        | --            | --                           | --           | --     | --        | --             | --             | --       | --             | --         | --        | --        | --          | --                           |
| MW-110WT          | UNKNOWN              | 12/10/97        | --            | --                           | --           | --     | --        | --             | --             | --       | --             | --         | --        | --        | --          | --                           |
| MW-110WTR         | 10 - 15              | 04/02/08        | --            | 6.48 J                       | --           | --     | --        | --             | --             | --       | --             | 200        | --        | --        | --          | 1,500,000                    |
| MW-110WTR         | 10 - 15              | 09/24/14        | --            | --                           | --           | --     | --        | --             | --             | --       | --             | 120        | --        | --        | --          | --                           |
| MW-110WTR         | 10 - 15              | 10/01/15        | --            | --                           | --           | --     | --        | --             | --             | --       | --             | 200        | --        | --        | --          | --                           |
| MW-110WTR         | 10 - 15              | 09/29/16        | --            | --                           | --           | --     | --        | --             | --             | --       | --             | 270        | --        | --        | --          | 1,000,000                    |
| MW-110WTR         | 10 - 15              | 10/13/16        | --            | --                           | --           | --     | --        | --             | --             | --       | --             | NA         | --        | --        | --          | --                           |
| MW-111WT          | 5.5 - 10.5           | 07/14/95        | --            | --                           | --           | --     | --        | --             | --             | --       | --             | --         | --        | --        | --          | --                           |
| MW-111WT          | 5.5 - 10.5           | 06/12/96        | --            | --                           | --           | --     | --        | --             | --             | --       | --             | --         | --        | --        | --          | --                           |
| MW-111WT          | 5.5 - 10.5           | 06/30/99        | 250,000 D     | 194.4                        | --           | --     | --        | --             | 10 U           | 10 U     | --             | 5,000 U    | 1,000     | --        | 1,000 U     | --                           |
| MW-111WT          | 5.5 - 10.5           | 09/02/99        |               | 223.2                        | --           | --     | --        | --             | --             | --       | --             | --         | --        | --        | --          | --                           |
| MW-111WT          | 5.5 - 10.5           | 05/19/00        |               | --                           | --           | 20,000 | 20,000    | 2,500          | --             | --       | --             | --         | --        | 120,000 D | --          | 100 UJ                       |
| MW-111WT          | 5.5 - 10.5           | 06/02/04        |               | --                           | --           | --     | --        | --             | --             | --       | --             | --         | --        | --        | --          | --                           |
| MW-111WT          | 5.5 - 10.5           | 08/26/05        |               | --                           | --           | --     | --        | --             | --             | --       | --             | --         | --        | --        | --          | --                           |
| MW-111WT          | 5.5 - 10.5           | 04/02/08        |               | --                           | 36 [36]      | --     | --        | --             | --             | --       | --             | --         | --        | --        | --          | --                           |
| MW-111WT          | 5.5 - 10.5           | 09/18/12        |               | --                           | 120          | --     | --        | --             | --             | --       | --             | --         | 400 [400] | --        | --          | --                           |
| MW-111WT          | 5.5 - 10.5           | 09/26/13        |               | --                           | 100          | --     | --        | --             | --             | --       | --             | --         | --        | --        | --          | --                           |
| MW-111WT          | 5.5 - 10.5           | 09/23/14        |               | --                           | 120          | --     | --        | --             | --             | --       | --             | --         | --        | --        | --          | --                           |
| MW-111WT          | 5.5 - 10.5           | 10/01/15        | --            | --                           | --           | --     | --        | --             | --             | --       | --             | 610        | --        | --        | --          | --                           |
| MW-111WT          | 5.5 - 10.5           | 10/01/15        | --            | --                           | --           | --     | --        | --             | --             | --       | --             | 970        | --        | --        | --          | --                           |
| MW-111WT          | 5.5 - 10.5           | 09/29/16        | --            | --                           | --           | --     | --        | --             | --             | --       | --             | 480        | --        | --        | --          | --                           |

Table 2  
Analytical Data Summary Table - SMI Inorganics  
Saginaw, MI  
RACER Trust

| Sample ID:        | Sample Depth (feet): | Date Collected: | Miscellaneous |                              |                 |      |           |                |                |          |                |                   |               |         |             |                              |
|-------------------|----------------------|-----------------|---------------|------------------------------|-----------------|------|-----------|----------------|----------------|----------|----------------|-------------------|---------------|---------|-------------|------------------------------|
|                   |                      |                 | Chloride      | Estimated Un-ionized Ammonia | Ferrous Iron    | Iron | Manganese | Nitrate (as N) | Nitrite (as N) | Nitrogen | Oil and Grease | Phosphorus        | Sulfate       | Sulfide | Surfactants | Total Dissolved Solids (TDS) |
| MDEQ GSI Criteria |                      |                 | --            |                              | --              | --   | --        | --             | --             | --       | --             | 1,000             | --            | --      | --          | --                           |
| MW-114S2          | 22.5 - 27.5          | 07/17/95        | --            | --                           | --              | --   | --        | --             | --             | --       | --             | --                | --            | --      | --          | --                           |
| MW-114S2          | 22.5 - 27.5          | 06/07/96        | --            | 180 J                        | --              | --   | --        | --             | --             | --       | --             | --                | --            | --      | --          | 560,000 J                    |
| MW-114S2          | 22.5 - 27.5          | 06/06/08        | --            |                              | --              | --   | --        | --             | --             | --       | --             | --                | --            | --      | --          |                              |
| MW-114S2          | 22.5 - 27.5          | 09/29/10        | --            |                              | --              | --   | --        | --             | --             | --       | --             | --                | --            | --      | --          |                              |
| MW-114S2          | 22.5 - 27.5          | 09/22/11        | --            |                              | --              | --   | --        | --             | --             | --       | --             | --                | --            | --      | --          |                              |
| MW-114S2          | 22.5 - 27.5          | 09/18/12        | --            |                              | --              | --   | --        | --             | --             | --       | --             | --                | --            | --      | --          |                              |
| MW-114S2          | 22.5 - 27.5          | 09/25/13        | --            |                              | --              | --   | --        | --             | --             | --       | --             | --                | --            | --      | --          |                              |
| MW-114S2          | 22.5 - 27.5          | 09/23/14        | --            |                              | --              | --   | --        | --             | --             | --       | --             | --                | --            | --      | --          |                              |
| MW-114S2          | 22.5 - 27.5          | 10/02/15        | --            |                              | --              | --   | --        | --             | --             | --       | --             | --                | --            | --      | --          |                              |
| MW-114S2          | 22.5 - 27.5          | 09/29/16        | --            |                              | --              | --   | --        | --             | --             | --       | --             | NA                | --            | --      | --          |                              |
| MW-114WT          | 3.5 - 8.5            | 06/08/96        | --            | --                           | --              | --   | --        | --             | --             | --       | --             | --                | --            | --      | --          | --                           |
| MW-114WT          | 3.5 - 8.5            | 12/11/97        | --            | --                           | --              | --   | --        | --             | --             | --       | --             | --                | --            | --      | --          | --                           |
| MW-114WT          | 3.5 - 8.5            | 05/22/00        | --            | --                           | --              | --   | --        | --             | --             | --       | --             | --                | --            | --      | --          | --                           |
| MW-114WT          | 3.5 - 8.5            | 09/26/13        | --            | --                           | --              | --   | --        | --             | --             | --       | --             | 100 U             | --            | --      | --          | --                           |
| MW-114WT          | 3.5 - 8.5            | 09/23/14        | --            | --                           | --              | --   | --        | --             | --             | --       | --             | 100 U             | --            | --      | --          | --                           |
| MW-114WT          | 3.5 - 8.5            | 10/02/15        | --            | --                           | --              | --   | --        | --             | --             | --       | --             | 100 U, F1 [100 U] | --            | --      | --          | --                           |
| MW-114WT          | 3.5 - 8.5            | 09/29/16        | --            | --                           | --              | --   | --        | --             | --             | --       | --             | 100 U             | --            | --      | --          | --                           |
| MW-149WT          | 7 - 17               | 06/12/96        | --            | --                           | --              | --   | --        | --             | --             | --       | --             | --                | --            | --      | --          | --                           |
| MW-149WT          | 7 - 17               | 05/21/00        | --            | --                           | --              | --   | --        | --             | --             | --       | --             | --                | --            | --      | --          | --                           |
| MW-149WT          | 7 - 17               | 06/02/04        | --            | --                           | --              | --   | --        | --             | --             | --       | --             | --                | --            | --      | --          | --                           |
| MW-149WT          | 7 - 17               | 04/03/08        | --            | 57.6                         | --              | --   | --        | --             | --             | --       | --             | 300               | --            | --      | --          | --                           |
| MW-149WT          | 7 - 17               | 09/30/10        | --            |                              | --              | --   | --        | --             | --             | --       | --             | 2,200 [1,800]     | --            | --      | --          | --                           |
| MW-149WT          | 7 - 17               | 09/28/11        | --            |                              | --              | --   | --        | --             | --             | --       | --             | 1,600 [1,600]     | --            | --      | --          | --                           |
| MW-149WT          | 7 - 17               | 09/18/12        | --            |                              | --              | --   | --        | --             | --             | --       | --             | 2,000 [1,900]     | --            | --      | --          | --                           |
| MW-149WT          | 7 - 17               | 09/25/13        | --            |                              | --              | --   | --        | --             | --             | --       | --             | 2,000 [2,100]     | --            | --      | --          | --                           |
| MW-149WT          | 7 - 17               | 09/24/14        | --            |                              | --              | --   | --        | --             | --             | --       | --             | 2,000 [1,300]     | --            | --      | --          | --                           |
| MW-149WT          | 7 - 17               | 10/01/15        | --            |                              | --              | --   | --        | --             | --             | --       | --             | 1,100             | --            | --      | --          | --                           |
| MW-149WT          | 7 - 17               | 09/29/16        | --            |                              | --              | --   | --        | --             | --             | --       | --             | 620 [700 ]        | --            | --      | --          | --                           |
| MW-185WT          | 3 - 8                | 11/28/07        | --            |                              | 21.6 U [21.6 U] | --   | --        | --             | --             | --       | --             | --                | 100 U [100 U] | --      | --          | --                           |
| MW-185WT          | 3 - 8                | 09/18/12        | --            | --                           |                 | --   | --        | --             | --             | --       | --             | 100 U             | --            | --      | --          |                              |
| MW-185WT          | 3 - 8                | 09/25/13        | --            | --                           |                 | --   | --        | --             | --             | --       | --             | 100 U             | --            | --      | --          |                              |
| MW-185WT          | 3 - 8                | 09/24/14        | --            | --                           |                 | --   | --        | --             | --             | --       | --             | 100 U             | --            | --      | --          |                              |
| MW-185WT          | 3 - 8                | 10/01/15        | --            | --                           |                 | --   | --        | --             | --             | --       | --             | 100 U             | --            | --      | --          |                              |
| MW-185WT          | 3 - 8                | 09/30/16        | --            | --                           |                 | --   | --        | --             | --             | --       | --             | 100 U             | --            | --      | --          |                              |
| MW-186WT          | UNKNOWN              | 09/30/10        | --            | --                           | --              | --   | --        | --             | --             | --       | --             | 300               | --            | --      | --          | --                           |
| MW-186WT          | UNKNOWN              | 09/23/11        | --            | --                           | --              | --   | --        | --             | --             | --       | --             | 360               | --            | --      | --          | --                           |
| MW-186WT          | UNKNOWN              | 09/18/12        | --            | --                           | --              | --   | --        | --             | --             | --       | --             | 250               | --            | --      | --          | --                           |
| MW-186WT          | UNKNOWN              | 09/25/13        | --            | --                           | --              | --   | --        | --             | --             | --       | --             | 290               | --            | --      | --          | --                           |
| MW-186WT          | UNKNOWN              | 09/24/14        | --            | --                           | --              | --   | --        | --             | --             | --       | --             | 170               | --            | --      | --          | --                           |
| MW-186WT          | UNKNOWN              | 10/02/15        | --            | --                           | --              | --   | --        | --             | --             | --       | --             | 290               | --            | --      | --          | --                           |
| MW-186WT          | UNKNOWN              | 09/30/16        | --            | --                           | --              | --   | --        | --             | --             | --       | --             | NA                | --            | --      | --          | --                           |
| MW-186WT          | UNKNOWN              | 09/30/16        | --            | --                           | --              | --   | --        | --             | --             | --       | --             | 260               | --            | --      | --          | --                           |

Table 2  
Analytical Data Summary Table - SMI Inorganics  
Saginaw, MI  
RACER Trust

| Sample ID:        | Sample Depth (feet): | Date Collected: | Miscellaneous                 |                            |                              | Gases                       |                 |                  |         |          |
|-------------------|----------------------|-----------------|-------------------------------|----------------------------|------------------------------|-----------------------------|-----------------|------------------|---------|----------|
|                   |                      |                 | Total Kjeldahl Nitrogen (TKN) | Total Organic Carbon (TOC) | Total Suspended Solids (TSS) | Carbon Dioxide by Headspace | Carbon monoxide | Dissolved Oxygen | Methane | Nitrogen |
| MDEQ GSI Criteria |                      |                 | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-107S1          | 12.5 - 17.5          | 07/12/95        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-107S1          | 12.5 - 17.5          | 06/07/96        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-107S1          | 12.5 - 17.5          | 06/06/08        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-107S1          | 12.5 - 17.5          | 09/30/10        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-107S1          | 12.5 - 17.5          | 09/21/11        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-107S1          | 12.5 - 17.5          | 09/17/12        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-107S1          | 12.5 - 17.5          | 09/26/13        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-107S1          | 12.5 - 17.5          | 09/24/14        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-107S1          | 12.5 - 17.5          | 10/01/15        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-107S1          | 12.5 - 17.5          | 09/29/16        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-107WT          | 4 - 9                | 07/12/95        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-107WT          | 4 - 9                | 06/07/96        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-107WT          | 4 - 9                | 04/03/08        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-107WT          | 4 - 9                | 09/18/12        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-107WT          | 4 - 9                | 09/26/13        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-107WT          | 4 - 9                | 09/24/14        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-107WT          | 4 - 9                | 10/01/15        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-107WT          | 4 - 9                | 09/29/16        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-108S2          | 22 - 27              | 07/13/95        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-108S2          | 22 - 27              | 06/08/96        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-108S2          | 22 - 27              | 06/06/08        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-108S2          | 22 - 27              | 09/29/10        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-108S2          | 22 - 27              | 09/21/11        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-108S2          | 22 - 27              | 09/17/12        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-108S2          | 22 - 27              | 09/26/13        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-108S2          | 22 - 27              | 09/24/14        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-108S2          | 22 - 27              | 10/01/15        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-108S2          | 22 - 27              | 09/29/16        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-108WT          | 2.5 - 7.5            | 07/13/95        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-108WT          | 2.5 - 7.5            | 06/08/96        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-108WT          | 2.5 - 7.5            | 05/21/00        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-108WT          | 2.5 - 7.5            | 06/02/04        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-108WT          | 2.5 - 7.5            | 09/29/16        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-110WT          | UNKNOWN              | 06/12/96        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-110WT          | UNKNOWN              | 12/10/97        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-110WTR         | 10 - 15              | 04/02/08        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-110WTR         | 10 - 15              | 09/24/14        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-110WTR         | 10 - 15              | 10/01/15        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-110WTR         | 10 - 15              | 09/29/16        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-110WTR         | 10 - 15              | 10/13/16        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-111WT          | 5.5 - 10.5           | 07/14/95        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-111WT          | 5.5 - 10.5           | 06/12/96        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-111WT          | 5.5 - 10.5           | 06/30/99        | 2,900                         | 11,000                     | --                           | --                          | --              | --               | --      | --       |
| MW-111WT          | 5.5 - 10.5           | 09/02/99        | --                            | 13,000                     | 33,000                       | --                          | --              | --               | --      | --       |
| MW-111WT          | 5.5 - 10.5           | 05/19/00        | --                            | 12,000                     | --                           | 99,290                      | 400 U           | 780              | 100     | 18,700   |
| MW-111WT          | 5.5 - 10.5           | 06/02/04        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-111WT          | 5.5 - 10.5           | 08/26/05        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-111WT          | 5.5 - 10.5           | 04/02/08        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-111WT          | 5.5 - 10.5           | 09/18/12        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-111WT          | 5.5 - 10.5           | 09/26/13        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-111WT          | 5.5 - 10.5           | 09/23/14        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-111WT          | 5.5 - 10.5           | 10/01/15        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-111WT          | 5.5 - 10.5           | 09/29/16        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |

Table 2  
Analytical Data Summary Table - SMI Inorganics  
Saginaw, MI  
RACER Trust

| Sample ID:        | Sample Depth (feet): | Date Collected: | Miscellaneous                 |                            |                              | Gases                       |                 |                  |         |          |
|-------------------|----------------------|-----------------|-------------------------------|----------------------------|------------------------------|-----------------------------|-----------------|------------------|---------|----------|
|                   |                      |                 | Total Kjeldahl Nitrogen (TKN) | Total Organic Carbon (TOC) | Total Suspended Solids (TSS) | Carbon Dioxide by Headspace | Carbon monoxide | Dissolved Oxygen | Methane | Nitrogen |
| MDEQ GSI Criteria |                      |                 | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-114S2          | 22.5 - 27.5          | 07/17/95        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-114S2          | 22.5 - 27.5          | 06/07/96        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-114S2          | 22.5 - 27.5          | 06/06/08        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-114S2          | 22.5 - 27.5          | 09/29/10        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-114S2          | 22.5 - 27.5          | 09/22/11        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-114S2          | 22.5 - 27.5          | 09/18/12        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-114S2          | 22.5 - 27.5          | 09/25/13        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-114S2          | 22.5 - 27.5          | 09/23/14        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-114S2          | 22.5 - 27.5          | 10/02/15        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-114S2          | 22.5 - 27.5          | 09/29/16        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-114WT          | 3.5 - 8.5            | 06/08/96        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-114WT          | 3.5 - 8.5            | 12/11/97        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-114WT          | 3.5 - 8.5            | 05/22/00        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-114WT          | 3.5 - 8.5            | 09/26/13        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-114WT          | 3.5 - 8.5            | 09/23/14        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-114WT          | 3.5 - 8.5            | 10/02/15        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-114WT          | 3.5 - 8.5            | 09/29/16        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-149WT          | 7 - 17               | 06/12/96        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-149WT          | 7 - 17               | 05/21/00        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-149WT          | 7 - 17               | 06/02/04        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-149WT          | 7 - 17               | 04/03/08        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-149WT          | 7 - 17               | 09/30/10        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-149WT          | 7 - 17               | 09/28/11        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-149WT          | 7 - 17               | 09/18/12        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-149WT          | 7 - 17               | 09/25/13        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-149WT          | 7 - 17               | 09/24/14        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-149WT          | 7 - 17               | 10/01/15        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-149WT          | 7 - 17               | 09/29/16        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-185WT          | 3 - 8                | 11/28/07        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-185WT          | 3 - 8                | 09/18/12        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-185WT          | 3 - 8                | 09/25/13        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-185WT          | 3 - 8                | 09/24/14        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-185WT          | 3 - 8                | 10/01/15        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-185WT          | 3 - 8                | 09/30/16        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-186WT          | UNKNOWN              | 09/30/10        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-186WT          | UNKNOWN              | 09/23/11        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-186WT          | UNKNOWN              | 09/18/12        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-186WT          | UNKNOWN              | 09/25/13        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-186WT          | UNKNOWN              | 09/24/14        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-186WT          | UNKNOWN              | 10/02/15        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-186WT          | UNKNOWN              | 09/30/16        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |
| MW-186WT          | UNKNOWN              | 09/30/16        | --                            | --                         | --                           | --                          | --              | --               | --      | --       |

**Notes:**

All results are in micrograms per liter (ug/L).

Bolded cells represent constituent concentrations with detections

Duplicate results are presented in brackets.

Groundwater concentrations are presented in milligrams per liter (mg/L), except where noted.

Gray shaded cells represent constituent concentrations that exceed Groundwater/Surface Water (GSI) Michigan Part 201 Criteria updated December 30, 2013.

MW-183WT, X-4CAUGR, X-9AR, X-9BR, X-9CAUG represent a groundwater surface water interface (GSI) perimeter monitoring well from Green Point Landfill.

MW-107WT, MW-107S1, MW-108S2, MW-110WTR, MW-111WT, MW-114S2, MW-114WT, MW-149WT, MW-185WT, and MW-186WT represent a GSI perimeter monitoring well from SMI.

\* Venting groundwater discharge concentrations was recommended by MDEQ in a letter dated November 26, 2008 followed by a Mixing Zone Determination Request and based on a five year renewal approved by the MDEQ on August 5, 2016.

**Data Qualifiers:**

ND = Not detected. The value in parentheses represents the associated detection limit.

-- or NA = Not analyzed for this constituent.

B = Inorganics: the detected analyte is an estimated value between the instrument detection limit (IDL) and the reporting limit (RL).

B = Organics: the compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

BJ = The detected analyte is an estimated concentration between the IDL and the RL.

D = Concentration is based on a diluted sample analysis.

F1= MS and/or MSD Recovery is outside acceptance limits

H = Sample was prepped or analyzed beyond the specified hold time.

J = The compound/constituent was positively identified; however, the associated numerical value is an estimated concentration only.

L = A negative instrument reading had an absolute value greater than the reporting limit.

M = Calculated criterion is below the analytical target detection limit, therefore, the criterion defaults to the target detection limit.

R = Indicates that the previously reported detection limit or sample result has been rejected due to a major deficiency in the data generation procedure. The data shall not be used for any qualitative or quantitative purposes.

U = The constituent was analyzed for but not detected. The associated value is the constituent quantitation limit.

UJ = The constituent was not detected above the reported sample quantitation limit.

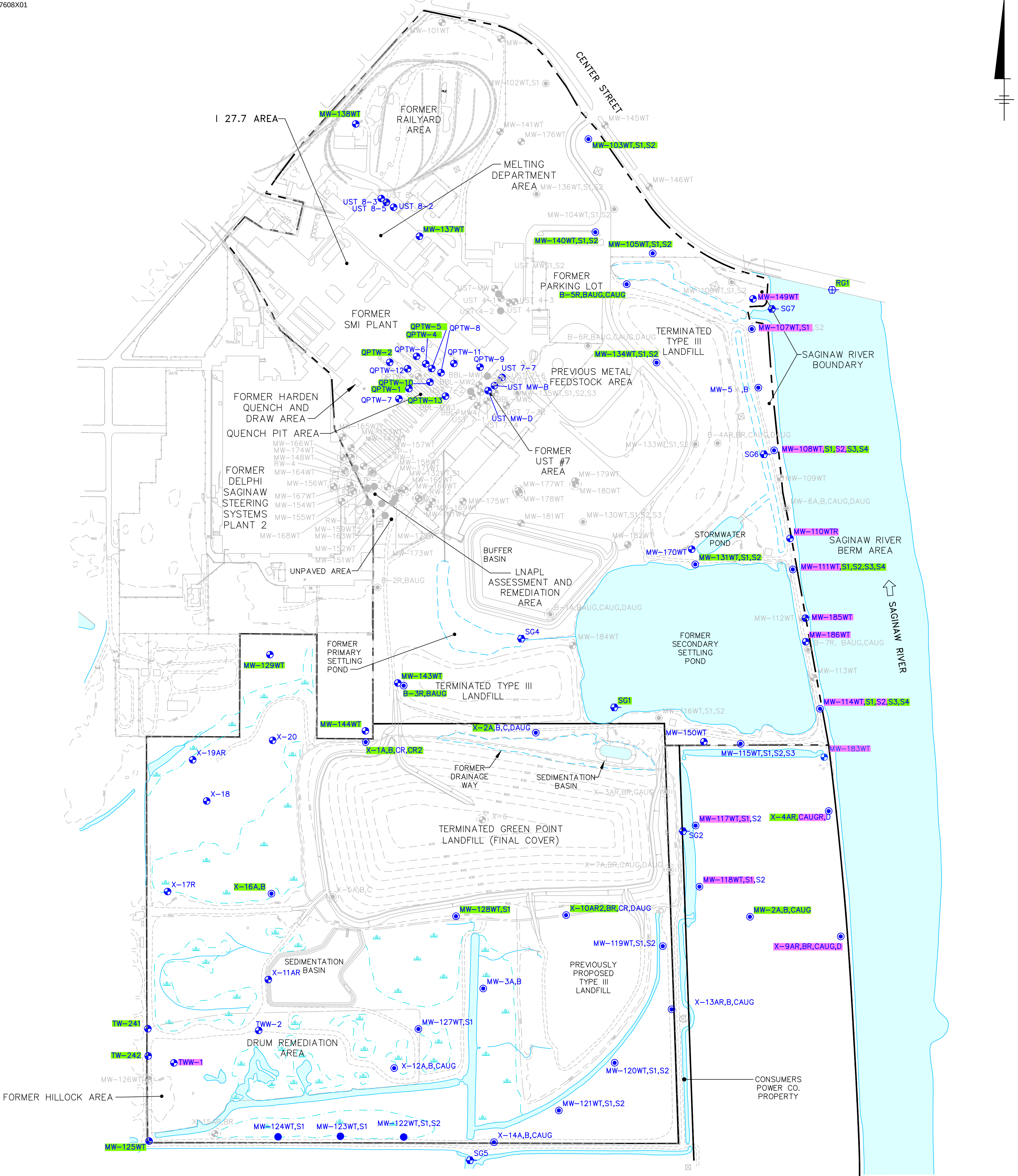
However, the reported limit is approximate and may or may not represent the actual result.

^ = ICV, CCV, ICB, CCB, ISA, ISB, CRI, CRA, DLCK, or MRL standard: instrument related QC exceeds the control limits.

FIGURES







STATE OF MICHIGAN PROPERTY  
(PREVIOUSLY RUBIN SCHULTZ PROPERTY)

LEGEND:

- SAGINAW MALLEABLE INDUSTRIAL LAND PROPERTY LINE (APPROX.)
- PROPERTY LINE (APPROX.)
- UNPAVED ROAD
- GROUND SURFACE ELEVATION CONTOUR (10 FT INTERVAL)
- FENCE LINE
- SWAMPY AREA
- MW-125WT MONITORING WELL
- MW-2A,B,CAUG MONITORING WELL CLUSTER
- SG5 STAFF GAUGE
- TP-1 PIEZOMETER
- RW-1 RECOVERY WELL
- X-6 ABANDONED MONITORING WELL
- X-5A,B,C ABANDONED MONITORING WELL CLUSTER
- RG1 RIVER GAUGE
- MW-152WT WELL NOT FOUND

RAP (7/31/08)  
MONITORING PROGRAM; REVISED 12/08

SAMPLING AND GROUNDWATER ELEVATION MEASUREMENT LOCATION

LNAPL AND/OR GROUNDWATER ELEVATION MEASUREMENT LOCATION

0 250' 500'  
GRAPHIC SCALE

NOTES:

- THIS PHOTOGRAMMETRIC BASE MAP FOR THE GM SAGINAW MALLEABLE IRON PLANT AND DELPHI SAGINAW STEERING SYSTEMS PLANT 2 PROPERTIES WAS PREPARED BY LOCKWOOD MAPPING, INC. OF ROCHESTER, NEW YORK. AERIAL PHOTOGRAPHY WAS CONDUCTED ON 11/11/94. ORIGINAL LOCKWOOD MAP WAS AT A SCALE OF 1"=100' AND WAS INTERPRETED FOR TWO-FOOT CONTOURS.
- BASE MAP HAS BEEN MODIFIED TO INCORPORATE BUFFER BASIN, SEDIMENTATION BASINS, WETLANDS MITIGATION AREA, AND GREEN POINT LANDFILL (GPL) FINAL COVER FROM THE FINAL ENGINEERING DESIGN REPORT PREPARED BY BBL FOR THE GPL, DATED JANUARY 1998.
- VERTICAL DATUM REFERENCED TO NGVD OF 1929, HORIZONTAL DATUM REFERENCED TO MICHIGAN SPC-NAD 1983.
- PROPERTY BOUNDARY DIGITIZED FROM SPICER GROUP DRAWING NO. A-21854-1, DATED 3/27/98.
- BASE MAP INFORMATION SOUTH OF MAIN REALM, INC. PROPERTY LINE FROM AIR-LAND SURVEYS, INC. PHOTO DATE 11/90, MAPPING DATE 10/91.

SAGINAW MALLEABLE INDUSTRIAL LAND  
GREEN POINT LANDFILL  
SAGINAW, MICHIGAN

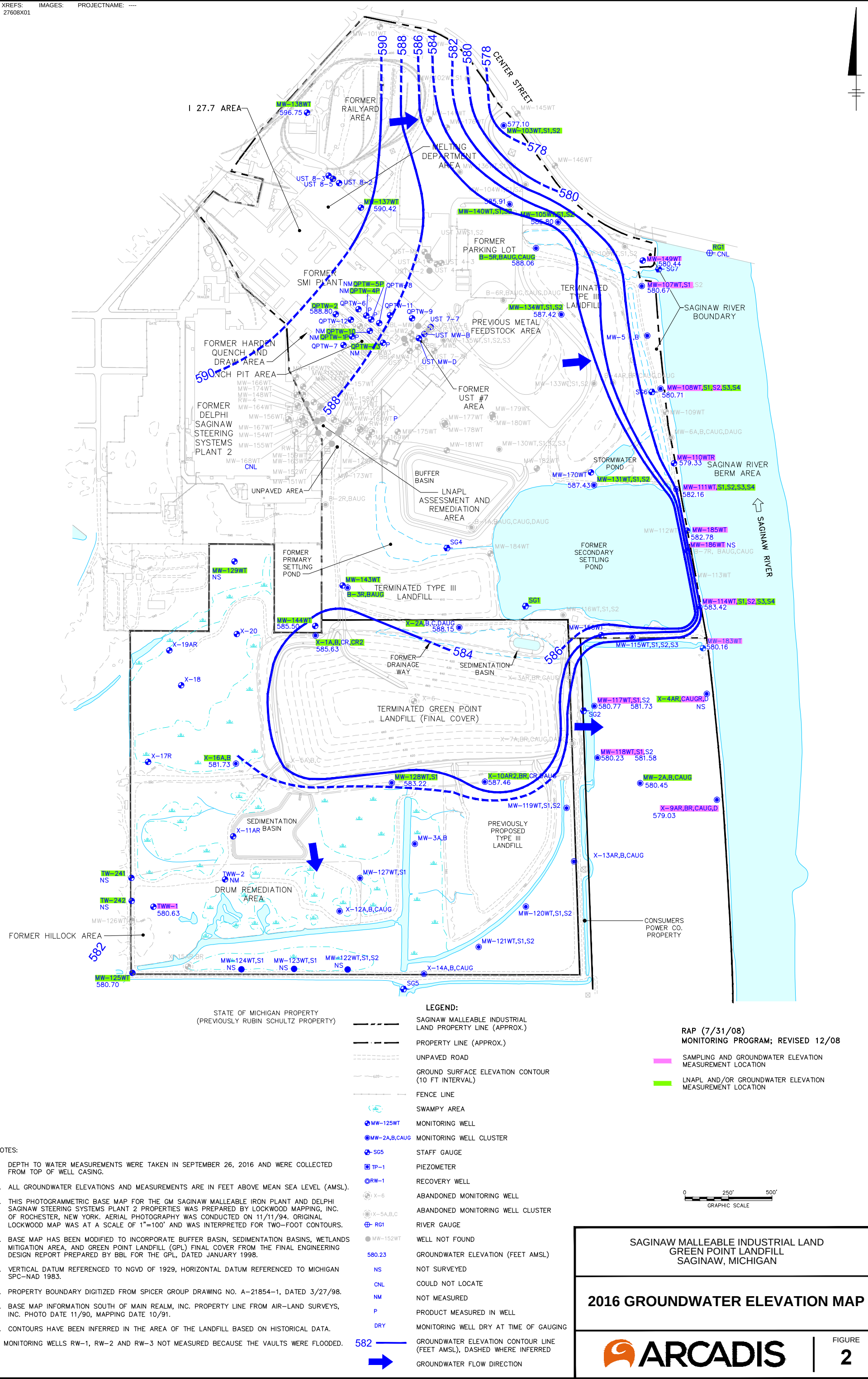
SITE MAP

ARCADIS

FIGURE  
1



XREFS: IMAGES: PROJECTNAME: ---- 27608X01



# ATTACHMENT 1

SMI Well Construction Logs, Sampling Parameters, and Field Parameters



**Attachment 1**  
**Monitoring Well Sampling Plan and Construction Summary**  
**2016 Annual Report**  
**RACER Trust**  
**Saginaw Malleable Industrial Land**  
**Saginaw, Michigan**

| Well ID   | Screen Interval (ft) <sup>1</sup> | Screened Unit/Zone | Well Construction | Date Installed | TIC <sup>2</sup> Elevation (ft) <sup>3</sup> |
|-----------|-----------------------------------|--------------------|-------------------|----------------|----------------------------------------------|
| MW-107WT  | 4-9                               | Water table        | 2" PVC            | 12/23/94       | 590.65                                       |
| MW-107S1  | 12.5-17.5                         | Upper sand         | 2" PVC            | 5/3/95         | 590.74                                       |
| MW-108WT  | 2.5-7.5                           | Water table        | 2" PVC            | 12/21/94       | 590.53                                       |
| MW-108S2  | 22-27                             | Upper sand         | 2" PVC            | 12/21/94       | 590.26                                       |
| MW-110WTR | 3-8                               | Water table        | 2" PVC            | 11/9/2001      | 591.52                                       |
| MW-111WT  | 5.5-10.5                          | Water table        | 2" PVC            | 1/6/95         | 590.95                                       |
| MW-114WT  | 3.5-8.56                          | Water table        | 2" PVC            | 7/24/07        | 591.12                                       |
| MW-114S2  | 22.5-27.5                         | Upper sand         | 2" PVC            | 7/23/07        | 591.2                                        |
| MW-149WT  | 7-17                              | Water table        | 2" PVC            | 9/21/95        | 592.27                                       |
| MW-185WT  | 3-8                               | Water table        | 2" PVC            | 11/8/2001      | 588.67                                       |
| MW-186WT  | 8-18                              | Water table        | 2" PVC            | NA             | NA                                           |

**Notes:**

<sup>1</sup> Depths are in feet below ground surface (bgs). Note that the screened intervals of the MW-128 and X-1 well clusters have been adjusted due to the addition of riser to the wells during landfill capping.

<sup>2</sup> TIC = Top of inner casing.

<sup>3</sup> Elevations are in feet above mean sea level (AMSL).

NA = not applicable/not available.

## SMI - River Berm Sampling

| WELL      | Summary from RAP (2008)                                                                          | Ultra Low Flow Location <sup>1</sup> | Ammonia Nitrogen<br>H <sub>2</sub> SO <sub>4</sub> - 500 mL Poly | Ammonia<br>H <sub>2</sub> SO <sub>4</sub> - 500 mL Poly | Phosphorus<br>H <sub>2</sub> SO <sub>4</sub> - 500 mL Poly | Total Arsenic, Total<br>Manganese, Total<br>Thallium<br>HNO <sub>3</sub> - 500mL Poly | (any combination can go<br>into one 500mL Poly) | SVOCs<br>NA - 1L Amber | Total PCBs<br>NA - 1L Amber | Dissolved PCBs<br>NA - 1L Amber | screen interval                                                                                                      |
|-----------|--------------------------------------------------------------------------------------------------|--------------------------------------|------------------------------------------------------------------|---------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------|------------------------|-----------------------------|---------------------------------|----------------------------------------------------------------------------------------------------------------------|
| MW-107WT  | Ammonia nitrogen, phosphorus, DO, total arsenic, total manganese, and total thallium             | X                                    | X                                                                | X                                                       | X                                                          | X                                                                                     | X                                               |                        |                             | 4-9                             |                                                                                                                      |
| MW-108WT  | TCL SVOCs, DO, ammonia, phosphorus, and total manganese                                          | X                                    | X                                                                | X                                                       |                                                            | X                                                                                     |                                                 | X                      |                             | 2.5-7.5                         |                                                                                                                      |
| MW-110WTR | PCBs (total and dissolved), ammonia nitrogen, phosphorus, DO, TDS, total manganese, and thallium | X                                    | X                                                                | X                                                       |                                                            | X                                                                                     | X                                               |                        | X                           | 3-8                             |                                                                                                                      |
| MW-111WT  | PCBs (total and dissolved), DO, ammonia, phosphorus, total thallium, and total manganese         | X                                    | X                                                                | X                                                       |                                                            | X                                                                                     | X                                               | X                      | X                           | 5.5-10.5                        |                                                                                                                      |
| MW-114WT  | PCBs (total and dissolved), ammonia, phosphorus, DO total thallium, and total manganese          | X                                    | X                                                                | X                                                       |                                                            | X                                                                                     | X                                               | X                      | X                           | 3.5-8.56                        |                                                                                                                      |
| MW-149WT  | Ammonia, phosphorus, total arsenic, and total thallium                                           | X                                    | X                                                                | X                                                       | X                                                          |                                                                                       | X                                               |                        |                             | 7-17                            | duplicate for phosphorus, total arsenic and total thallium; MS/MSD for phosphorus, total arsenic, and total thallium |
| MW-185WT  | PCBs (total and dissolved), ammonia, phosphorus, DO, total manganese, and total thallium.        | X                                    | X                                                                | X                                                       |                                                            | X                                                                                     | X                                               | X                      | X                           | 3-8                             |                                                                                                                      |
| MW-186WT  | PCBs (total and dissolved), ammonia, phosphorus, DO total thallium, and total manganese          | X                                    | X                                                                | X                                                       |                                                            | X                                                                                     | X                                               | X                      | X                           | 8-18                            | duplicate for total PCBs; MS/MSD for total and dissolved PCBs                                                        |
| MW-107S1  | Ammonia nitrogen                                                                                 |                                      | X                                                                |                                                         |                                                            |                                                                                       |                                                 |                        |                             | 12.5-17.5                       |                                                                                                                      |
| MW-108S2  | Ammonia nitrogen                                                                                 |                                      | X                                                                |                                                         |                                                            |                                                                                       |                                                 |                        |                             | 22-27                           |                                                                                                                      |
| MW-114S2  | Ammonia nitrogen                                                                                 |                                      | X                                                                |                                                         |                                                            |                                                                                       |                                                 |                        |                             | 22.5-27.5                       | duplicate for ammonia nitrogen; MS/MSD for ammonia nitrogen                                                          |

**Notes:**

<sup>1</sup>Ultra Low Flow sampling refers to the use of a purge and sampling rate of approximately 1 liter per hour, implemented to minimize sample turbidity.

Attachment 1

Table 2A

Groundwater Sampling Well List 2016

RACER Saginaw Malleable Industrial Land

Saginaw, Michigan

| SMI/Green Point |                                                                                                                                                                                                                                            |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MW-117WT        |                                                                                                                                                                                                                                            |
| MW-117S1        |                                                                                                                                                                                                                                            |
| MW-118WT        |                                                                                                                                                                                                                                            |
| MW-118S1        |                                                                                                                                                                                                                                            |
|                 | duplicate for ammonia nitrogen, total TAL metals, dissolved cyanide, chloride, sulphate, pH, nitrite, nitrate, and TDS; MS/MSD for ammonia nitrogen, total TAL metals, dissolved cyanide, chloride, pH, sulfate, nitrite, nitrate, and TDS |
| MW-183WT        |                                                                                                                                                                                                                                            |
| X-4AR           | well was purged dry and didn't recharge                                                                                                                                                                                                    |
| X-4CAUGR        |                                                                                                                                                                                                                                            |
| X-4D            |                                                                                                                                                                                                                                            |
| X-9AR           |                                                                                                                                                                                                                                            |
| X-9BR           |                                                                                                                                                                                                                                            |
| X-9CAUG         |                                                                                                                                                                                                                                            |
| X-9D            | MS/MSD for ammonia nitrogen, dissolved cyanide, chloride, pH, sulphate, nitrite, nitrate, and TDS                                                                                                                                          |
| X-10BR          |                                                                                                                                                                                                                                            |
| TWW-1           | duplicate for VOC                                                                                                                                                                                                                          |
| MW-107WT        |                                                                                                                                                                                                                                            |
| MW-107S1        |                                                                                                                                                                                                                                            |
| MW-108WT        | dry                                                                                                                                                                                                                                        |
| MW-108S2        |                                                                                                                                                                                                                                            |
| MW-110WRT       | dry                                                                                                                                                                                                                                        |
| MW-111WT        | purged dry, sampled after recharge                                                                                                                                                                                                         |
| MW-114WT        |                                                                                                                                                                                                                                            |
| MW-114S2        | duplicate for ammonia nitrogen; MS/MSD for ammonia nitrogen                                                                                                                                                                                |
| MW-149WT        | duplicate for phosphorus, total arsenic and total thallium; MS/MSD for phosphorus, total arsenic, and total thallium                                                                                                                       |
| MW-185WT        |                                                                                                                                                                                                                                            |
| MW-186WT        | duplicate for total PCBs; MS/MSD for total and dissolved PCBs                                                                                                                                                                              |

Attachment 1  
Field Parameters, 2016 Annual Report  
RACER Trust Saginaw Malleable Industrial Land  
Saginaw, Michigan

| Well ID               | Date Sampled             | Conductivity (mS/cm) | Dissolved Oxygen (mg/L) | Oxidation Reduction Potential (mV) | pH (SU) | Temperature (°C) | Turbidity (NTUs) |
|-----------------------|--------------------------|----------------------|-------------------------|------------------------------------|---------|------------------|------------------|
| MW-107S1              | 09/30/10                 | 1.258                | 0.4                     | -104.2                             | 7.54    | 22.9             | 0.35             |
| MW-107S1              | 09/21/11                 | 1.26                 | 0.90                    | -111.7                             | 7.11    | 14.93            | 0.6              |
| MW-107S1              | 09/17/12                 | 1.109                | 1.2                     | -83.0                              | 7.19    | 15.3             | 1.02             |
| MW-107S1              | 09/25/13                 | 3.474                | 0.79                    | 180.3                              | 7.41    | 12.70            | 0.1              |
| MW-107S1              | 09/24/14                 | 1.149                | 3.03                    | -76.8                              | 7.40    | 12.68            | 2.3              |
| MW-107S1              | 10/01/15                 | 1.52                 | 0.19                    | 74.33                              | 7.13    | 14.24            | 8.2              |
| MW-107S1              | 09/29/16                 | 0.547                | 0.49                    | 9.54                               | 7.03    | 14.29            | 1.8              |
| MW-107WT              | DRY<br>2010 and 2011     | NA                   | NA                      | NA                                 | NA      | NA               | NA               |
| MW-107WT <sup>1</sup> | 09/18/12                 | NA                   | NA                      | NA                                 | NA      | NA               | 11.0             |
| MW-107WT <sup>1</sup> | 09/26/13                 | NA                   | NA                      | NA                                 | NA      | NA               | 93.2             |
| MW-107WT <sup>1</sup> | 09/24/14                 | 0.861                | 0.64                    | -88.8                              | 6.94    | 14.26            | 1.3              |
| MW-107WT              | 10/01/15                 | 1.239                | 5.06                    | -110.08                            | 7.18    | 18.11            | 1.9              |
| MW-107WT              | 09/29/16                 | 0.401                | 0.62                    | 35.2                               | 6.90    | 15.59            | 1.05             |
| MW-108S2              | 09/28/10                 | 1.142                | 0.12                    | -116.6                             | 7.52    | 13.87            | 0.4              |
| MW-108S2              | 09/21/11                 | 0.808                | 0.63                    | -96.9                              | 7.51    | 13.87            | 3.8              |
| MW-108S2              | 09/17/12                 | 0.901                | 0.28                    | -238.8                             | 7.38    | 13.23            | 0.83             |
| MW-108S2              | 09/26/13                 | 2.641                | 0.37                    | 160.1                              | 7.49    | 12.37            | 0.8              |
| MW-108S2              | 09/24/14                 | Missing field notes  |                         |                                    |         |                  |                  |
| MW-108S2              | 10/01/15                 | 1.062                | 0.14                    | 103.92                             | 7.59    | 13.47            | 8.9              |
| MW-108S2              | 09/29/16                 | 0.395                | 0.52                    | 7.28                               | 7.10    | 15               | 1.43             |
| MW-108WT              | DRY<br>2010 through 2014 | NA                   | NA                      | NA                                 | NA      | NA               | NA               |
| MW-108WT              | 09/29/16                 | 0.310                | 0.51                    | 4.45                               | 6.55    | 16.59            | 0.87             |
| MW-110WTR             | DRY<br>2010 through 2013 | NA                   | NA                      | NA                                 | NA      | NA               | NA               |
| MW-110WTR             | 09/24/14                 | Missing field notes  |                         |                                    |         |                  |                  |
| MW-110WTR             | 10/01/15                 | 2.198                | 0.62                    | -117.47                            | 6.91    | 14.07            | 7.71             |
| MW-110WTR             | 09/29/16                 | 0.683                | 0.52                    | -29.39                             | 6.47    | 14.6             | 0.86             |
| MW-111WT              | DRY<br>2010 and 2011     | NA                   | NA                      | NA                                 | NA      | NA               | NA               |
| MW-111WT <sup>1</sup> | 09/18/12                 | NA                   | NA                      | NA                                 | NA      | NA               | 5.36             |
| MW-111WT <sup>1</sup> | 09/26/13                 | NA                   | NA                      | NA                                 | NA      | NA               | 6.62             |
| MW-111WT              | 09/23/14                 | Missing field notes  |                         |                                    |         |                  |                  |
| MW-111WT              | 10/01/15                 | 1.206                | 0.21                    | 109.71                             | 7.05    | 13.09            | 6.34             |
| MW-111WT              | 09/29/16                 | 0.403                | 0.5                     | -32.78                             | 6.66    | 15.43            | 1.02             |
| MW-114S2              | 09/29/10                 | 0.69                 | 0.10                    | -118.5                             | 8.40    | 16.43            | 1.0              |
| MW-114S2              | 09/22/11                 | 0.929                | 1.83                    | -109.6                             | 7.20    | 16.3             | 1.1              |
| MW-114S2              | 09/18/12                 | 0.809                | 7.67                    | -21.1                              | 7.25    | 14.25            | 3.47             |
| MW-114S2              | 09/25/13                 | 2.810                | 0.63                    | -206.2                             | 7.37    | 14.15            | 0.2              |
| MW-114S2              | 09/23/14                 | 0.637                | 0.07                    | -113.4                             | 6.73    | 15.96            | 1.3              |
| MW-114S2              | 10/01/15                 | 0.650                | 0.36                    | 127.66                             | 7.29    | 14.04            | 5.5              |
| MW-114S2              | 09/29/16                 | 0.257                | 0.45                    | -42.57                             | 6.96    | 16.01            | 1.02             |

Attachment 1  
Field Parameters, 2016 Annual Report  
RACER Trust Saginaw Malleable Industrial Land  
Saginaw, Michigan

| Well ID               | Date Sampled               | Conductivity (mS/cm) | Dissolved Oxygen (mg/L) | Oxidation Reduction Potential (mV) | pH (SU) | Temperature (°C) | Turbidity (NTUs) |
|-----------------------|----------------------------|----------------------|-------------------------|------------------------------------|---------|------------------|------------------|
| MW-114WT              | DRY<br>2010, 2011 and 2012 | NA                   | NA                      | NA                                 | NA      | NA               | NA               |
| MW-114WT <sup>1</sup> | 09/25/13                   | NA                   | NA                      | NA                                 | NA      | NA               | 12.3             |
| MW-114WT              | 09/23/14                   | 0.705                | 0.19                    | -88.1                              | 6.43    | 20.25            | 0.98             |
| MW-114WT              | 10/01/15                   | 1.026                | 1.16                    | 112.83                             | 6.67    | 16.22            | 8.68             |
| MW-114WT              | 09/29/16                   | 0.277                | 0.66                    | -21.73                             | 6.77    | 18.51            | 1.39             |
| MW-149WT              | 09/30/10                   | 1.395                | 0.53                    | -133.4                             | 6.91    | 12.79            | 1.6              |
| MW-149WT              | 09/28/11                   | 1.441                | 0.43                    | -136.6                             | 6.77    | 13.79            | 1.7              |
| MW-149WT              | 09/18/12                   | 1.161                | 2                       | -75.0                              | 6.73    | 14.03            | 0.72             |
| MW-149WT              | 09/25/13                   | 4.722                | 0.28                    | -150.7                             | 6.70    | 14.93            | 1.25             |
| MW-149WT              | 09/24/14                   | Missing field notes  |                         |                                    |         |                  |                  |
| MW-149WT              | 10/01/15                   | 1.234                | 0.21                    | 87.25                              | 6.82    | 13.16            | 5.58             |
| MW-149WT              | 09/29/16                   | 0.455                | 0.56                    | 48.33                              | 6.50    | 14.93            | 1.89             |
| MW-185WT              | DRY<br>2010 and 2011       | NA                   | NA                      | NA                                 | NA      | NA               | NA               |
| MW-185WT <sup>1</sup> | 09/18/12                   | NA                   | NA                      | NA                                 | NA      | NA               | 27.7             |
| MW-185WT <sup>1</sup> | 09/25/13                   | NA                   | NA                      | NA                                 | NA      | NA               | 19.7             |
| MW-185WT              | 09/24/14                   | 0.48                 | 0.29                    | -125.7                             | 7.75    | 22.01            | 1.65             |
| MW-185WT              | 10/01/15                   | 0.597                | 0.67                    | -150.33                            | 7.91    | 14.87            | 5.67             |
| MW-185WT              | 09/29/16                   | 0.213                | 0.37                    | 74.88                              | 7.18    | 19.12            | 1.05             |
| MW-186WT              | 09/29/10                   | 0.53                 | 0.39                    | -130.1                             | 7.88    | 14.52            | 0.6              |
| MW-186WT              | 09/28/11                   | 0.94                 | 1.68                    | -136                               | 8.04    | 14.18            | 0.5              |
| MW-186WT              | 09/18/12                   | 0.748                | 4.43                    | -222.8                             | 7.43    | 15.07            | 0.60             |
| MW-186WT              | 09/25/13                   | 2.239                | 0.48                    | -104.2                             | 6.86    | 16.15            | 0.5              |
| MW-186WT              | 09/24/14                   | 0.853                | 0.24                    | -124.9                             | 6.50    | 18.99            | 1.5              |
| MW-186WT              | 10/01/15                   | 0.597                | 0.67                    | -150.33                            | 7.91    | 14.87            | 5.7              |
| MW-186WT              | 09/29/16                   | 0.295                | 0.46                    | 99.39                              | 6.90    | 15.47            | 2.43             |

Notes:

°C = Celsius.

mg/L = milligrams per liter.

mV = millivolts.

NTUs = Nephelometric Turbidity Units.

SU = Standard Units.

mS/cm = milliSiemens per centimeter.

NA = not applicable/not available.

1. Monitoring well purged dry upon sampling. Well was allowed to recharge and then a sample was collected. Only turbidity was measured prior to sampling
2. No reading due to faulty dissolved oxygen sensor.

# ATTACHMENT 2

GHD Summary of LNAPL Activities at Malleable Iron Industrial Land







# Memorandum

December 7, 2016

To: Amanda Armbruster (MDEQ)

Ref. No.: 007878

From: *J.E.P.*  
John eric Pardys/wg/162

cc: Dave Favero

**Subject: Summary of LNAPL Activities at Malleable Iron Industrial Land  
(Dec. 2015 to Nov. 2016)**

## 1. Introduction

GHD Services Inc. (GHD), on behalf of the Revitalizing Auto Communities Environmental Response (RACER) Trust, has prepared the following memorandum to summarize the Light Non-Aqueous Phase Liquid (LNAPL) monitoring activities completed in the Quench Pit and Southwest Plant LNAPL Areas at the RACER Malleable Iron Industrial Land, Saginaw, Michigan (Site) (Figure 1) from December 2015 to January 2016.

The following tables, figures, and attachments are referenced throughout the remainder of this memorandum:

Figure 1 Site Plan

Figure 2 Southwest Plant LNAPL Area – LNAPL Monitoring Program

Figure 3 Quench Pit Area – LNAPL Monitoring Program

Table 1 Quarterly LNAPL Gauging

Table 2 LNAPL Transmissivity Testing Results for QPTW-1, QPTW-3R, QPTW-4, QPTW-5, and QPTW-10

Attachment A November 2014 Presentation

Attachment B Proposed Monitoring Plan for Southwest Plant LNAPL Area – September 8, 2014

Attachment C Inspection Checklists

Attachment D MDEQ approval of monitoring well re-installation in the Quench Pit Area

Attachment E Standard Operating Procedures – Transmissivity Testing



## 2. Background

RACER has been working with the Michigan Department of Environmental Quality (MDEQ) to obtain closure for the Southwest Plant LNAPL Area and the Quench Pit Area. LNAPL was first identified in each area in the mid-1990's and various remedial activities have been completed since then to remove LNAPL and prevent migration of LNAPL. A complete summary of the history of each area is included in the November 7, 2014 LNAPL Status presentation that was given to the MDEQ and is included in Attachment A.

One of the recommendations made by the MDEQ to obtain closure for the Southwest Plant LNAPL Area was to complete additional monitoring to confirm the absence/presence of LNAPL in the source area and further downgradient at the stormwater and secondary ponds (storm sewers that pass through the Southwest Plant LNAPL Area provide a potential migration pathway for LNAPL to discharge to the stormwater and secondary ponds). A proposed monitoring plan was submitted to the MDEQ for review on May 27, 2014. The MDEQ provided comments on the proposed monitoring plan on August 21, 2014 and a revised monitoring plan was submitted back to the MDEQ on September 8, 2014 (Attachment B) which included quarterly monitoring of manholes in the Southwest Plant LNAPL Area, the stormwater pond, and the secondary pond to confirm LNAPL is not migrating. RACER has been implementing the proposed monitoring plan for the Southwest Plant LNAPL Area since Q2-2014.

As part of the November 7, 2014 LNAPL Status presentation, GHD (formerly Conestoga-Rovers & Associates, Inc.) recommended on-going LNAPL recovery at QPTW-10 (the only well in the Quench Pit Area with transmissivity levels greater than 0.5 square feet per day [ $\text{ft}^2/\text{day}$ ]) until transmissivity levels are less than 0.5  $\text{ft}^2/\text{day}$  (MDEQ de minimis recoverability criterion) and quarterly monitoring to confirm LNAPL is not migrating or accumulating at downgradient sewer bedding monitoring wells, nearby active sewers that discharge to the stormwater and secondary ponds, and nearby sewers that historically discharged to the City. RACER has been implementing the proposed monitoring plan for the Quench Pit Area since Q2-2014.

## 3. Summary of LNAPL Monitoring Activities

Quarterly monitoring/inspections were conducted in the Quench Pit Area and the Southwest Plant LNAPL Area on December 4, 2015, March 15, 2016, June 17, 2016, and September 22, 2015. The inspection checklists are provided in Attachment C.

### *Southwest Plant LNAPL Area*

Figure 2 presents the manhole locations inspected/gauged quarterly for water/LNAPL in the Southwest Plant LNAPL Area. No measurable product was identified in the manholes; however, an oil absorbent boom was placed in manhole FV3.0 during the fourth quarter of 2015 and has remained to date, as a result of an oily scum layer in the manhole. In addition, no LNAPL was present during the inspections at the ground surface of the Southwest Plant LNAPL Area, in the stormwater pond, or in the secondary pond. Therefore, based on the inspections LNAPL in the Southwest Plant LNAPL Area LNAPL is mobile (as evidenced by the oily scum layer), unrecoverable, and stable/non-migrating (LNAPL area not expanding).



Monitoring of the Southwest Plant LNAPL area has been completed in accordance with the monitoring plan provided in Attachment B. To date, there has been no measurable LNAPL in manholes that will be covered by 1-ft of clay per the approved PCB Work Plan, (W6.8, W6.0, X8.2, MH, W9.6, X10.3, W12.4, and W13.1) through eight consecutive rounds of quarterly monitoring. Therefore, in accordance with the monitoring plan we request to discontinue monitoring those locations. Please note that we will continue quarterly monitoring at SW Plant LNAPL locations that are still accessible following installation of the cover (S5.6, V3.6, FV3.0, and X5.9).

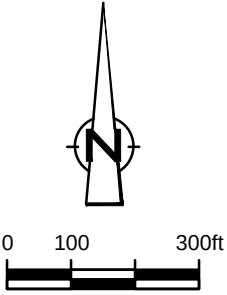
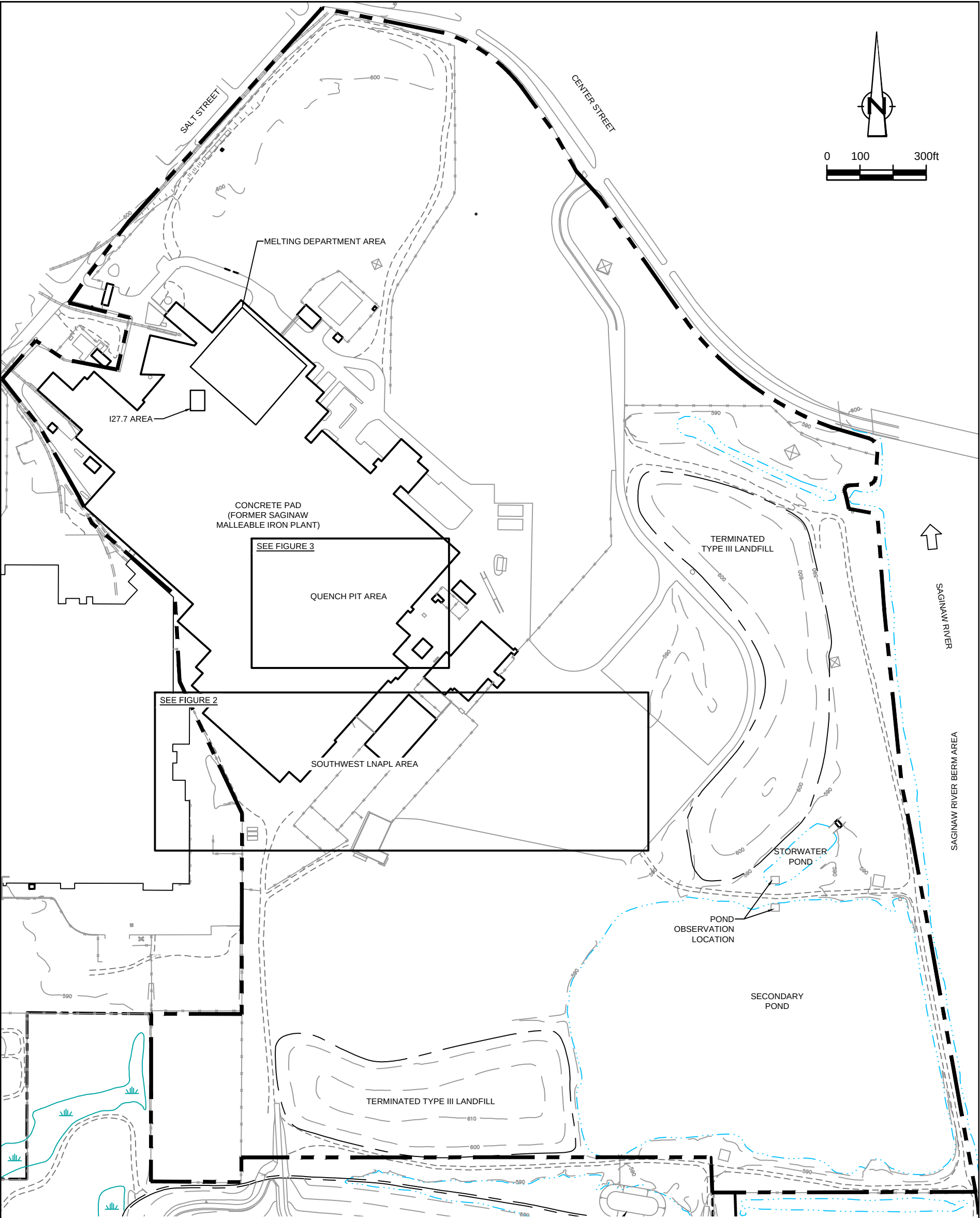
### *Quench Pit Area*

Figure 3 presents the manhole and monitoring well locations inspected/gauged quarterly for water/LNAPL in the Quench Pit Area. All Quench Pit Area monitoring wells were abandoned on September 23 and 27, 2016, in preparation for the installation of a 1-foot clay cover over the former Malleable Facility concrete floor slab. Following installation of the 1-foot clay cover over the concrete floor slab, nine of the Quench Pit monitoring wells will be re-installed as identified on Figure 3, as approved by the MDEQ via email on September 2, 2016 (Attachment D). Water/LNAPL gauging for the Quench Pit Area monitoring wells collected during the quarterly events is summarized in Table 1. LNAPL, if present, was recovered manually and containerized in an on-Site 330-gallon tote. Approximately 2.9 gallons were manually recovered from the monitoring wells during the reporting period. No measurable product was identified in the manholes, at downgradient sewer bedding monitoring wells, at the ground surface of the Quench Pit Area, in the stormwater pond, or in the secondary pond.

Active recovery of LNAPL was conducted at QPTW-10 between December 1, 2016 and January 7, 2016 at which point the system was stopped due to a lack of LNAPL. The active recovery system includes an on-demand LNAPL skimmer pump which recovered approximately 2.3 gallons during the time it operated this period. The LNAPL recovered is stored in an on-Site 330-gallon tote. In April and May 2016, GHD conducted transmissivity testing on the monitoring wells QPTW-01, QPTW-3R, QPTW-4, QPTW-5, and QPTW-10, which had sufficient LNAPL to conduct a transmissivity test. The results of the transmissivity testing indicated that all locations were less than 0.5 ft<sup>2</sup>/day (MDEQ minimum recoverability criterion) as summarized in Table 2. A copy of GHD's standard operating procedures for transmissivity testing is included in Attachment E.

No LNAPL was disposed of off-Site in 2016.

LNAPL continues to be present in the Quench Pit Area monitoring wells; however, there is no evidence of LNAPL migrating downgradient. Following the installation of the clay cover over the concrete floor slab, GHD will re-install nine monitoring wells in the Quench Pit Area and will re-initiate quarterly monitoring of those nine wells. The manholes previously included in the quarterly inspections will no longer be accessible due to the 1-foot clay cover and therefore will no longer be included in the quarterly monitoring. In addition, transmissivity testing will be completed on the newly re-installed monitoring wells in which sufficient LNAPL accumulates to evaluate whether active recovery of LNAPL is necessary.



- LEGEND**
- RACER MALLEABLE IRON INDUSTRIAL LAND PROPERTY LINE (APPROX.)
  - - - UNPAVED ROAD
  - 620 - GROUND SURFACE ELEVATION CONTOUR (10 FT INTERVAL)
  - x - x - x - FENCE LINE

NOTE:  
THIS DRAWING HAS BEEN PREPARED  
UTILIZING THE BEST AVAILABLE INFORMATION.

figure 1  
SITE PLAN  
RACER SAGINAW MALLEABLE IRON INDUSTRIAL LAND  
*Saginaw, Michigan*



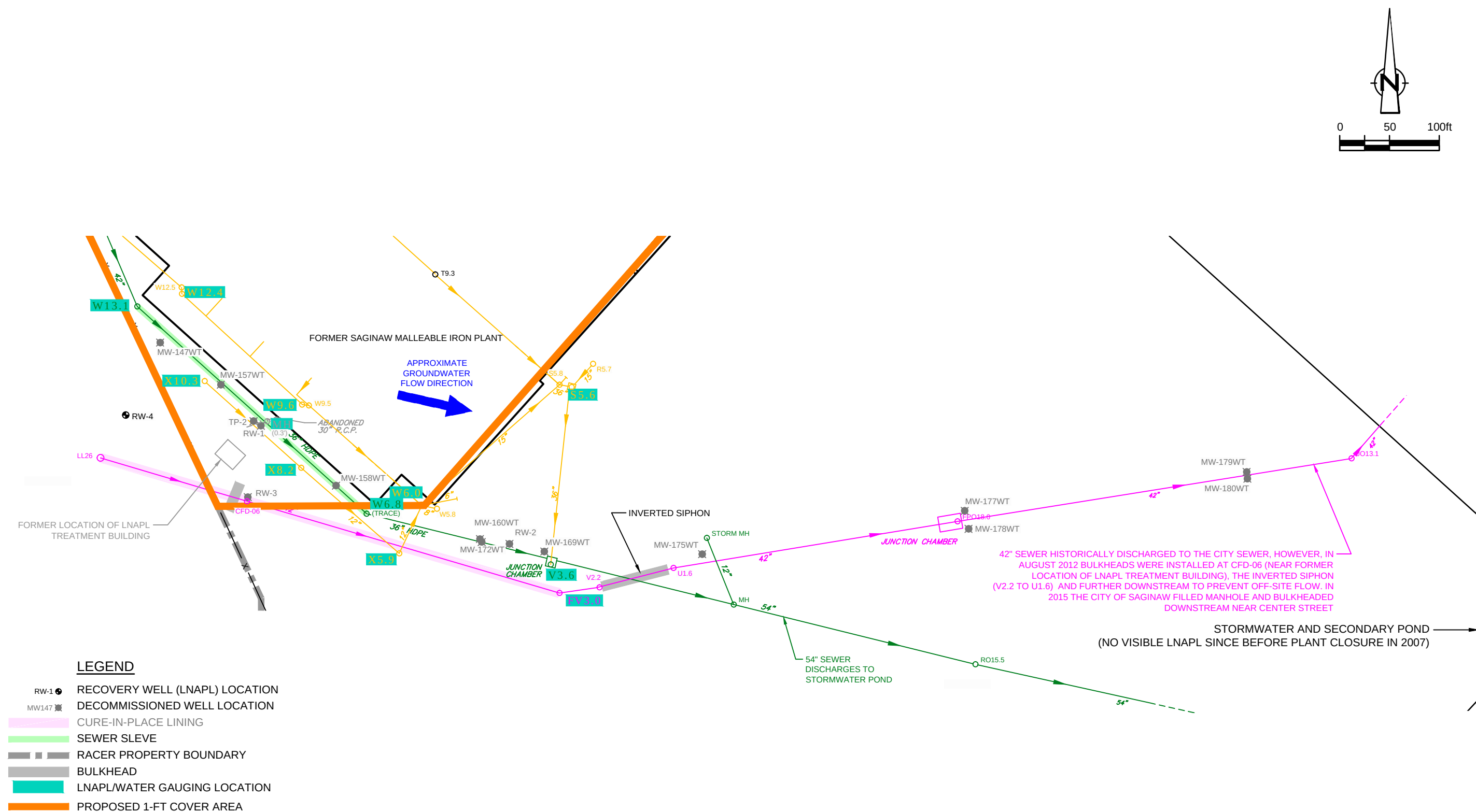
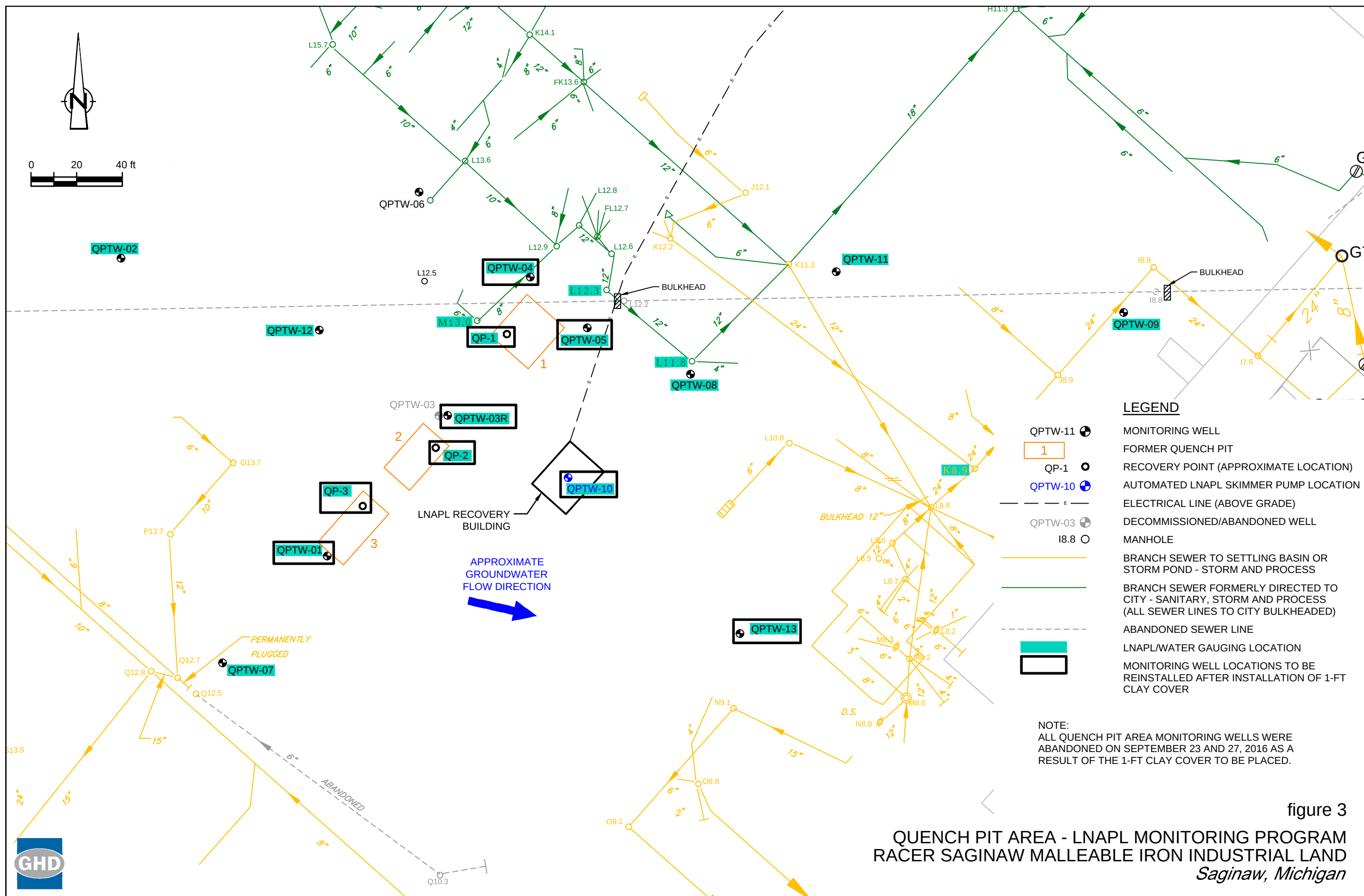


figure 2

SOUTHWEST PLANT LNAPL AREA - LNAPL MONITORING PROGRAM  
RACER SAGINAW MALLEABLE IRON INDUSTRIAL LAND  
*Saginaw, Michigan*



**Quarterly LNAPL/Water Gauging  
RACER Saginaw Malleable Industrial Land  
Saginaw, Michigan**

| Location | Depth to Top<br>of Screen<br>(ft btoc) |                      | Date     |           |           |           |
|----------|----------------------------------------|----------------------|----------|-----------|-----------|-----------|
|          |                                        |                      | 4-Dec-15 | 15-Mar-16 | 17-Jun-16 | 22-Sep-16 |
| QPTW-01  | 2.85                                   | DTW (ft)             | 4.70     | 5.13      | 2.23      | 3.82      |
|          |                                        | DTP (ft)             | 3.48     | 1.94      | 1.17      | 2.86      |
|          |                                        | LNAPL Thickness (ft) | 1.22     | 3.19      | 1.06      | 0.96      |
| QPTW-02  | 2.80                                   | DTW (ft)             | 3.85     | 1.98      | 1.66      | 2.98      |
|          |                                        | DTP (ft)             | NP       | NP        | NP        | NP        |
|          |                                        | LNAPL Thickness (ft) | NP       | NP        | NP        | NP        |
| QPTW-03R | 2.75                                   | DTW (ft)             | 4.14     | 2.46      | 2.30      | 3.78      |
|          |                                        | DTP (ft)             | NP       | 2.39      | 1.77      | 3.05      |
|          |                                        | LNAPL Thickness (ft) | NP       | 0.07      | 0.53      | 0.73      |
| QPTW-04  | 2.50                                   | DTW (ft)             | 5.56     | 3.68      | 2.27      | 4.61      |
|          |                                        | DTP (ft)             | 3.51     | 1.76      | 2.16      | 2.80      |
|          |                                        | LNAPL Thickness (ft) | 2.05     | 1.92      | 0.11      | 1.81      |
| QPTW-05  | 2.70                                   | DTW (ft)             | 6.38     | 4.86      | 4.14      | 5.67      |
|          |                                        | DTP (ft)             | 4.10     | 2.49      | 1.99      | 3.15      |
|          |                                        | LNAPL Thickness (ft) | 2.28     | 2.37      | 2.15      | 2.52      |
| QPTW-07  | 2.63                                   | DTW (ft)             | 3.78     | 2.92      | 2.14      | 3.31      |
|          |                                        | DTP (ft)             | NP       | NP        | NP        | NP        |
|          |                                        | LNAPL Thickness (ft) | NP       | NP        | NP        | NP        |
| QPTW-08  | 2.80                                   | DTW (ft)             | NM       | NM        | NM        | NM        |
|          |                                        | DTP (ft)             | NM       | NM        | NM        | NM        |
|          |                                        | LNAPL Thickness (ft) | NM       | NM        | NM        | NM        |
| QPTW-09  | 2.58                                   | DTW (ft)             | NM       | NM        | NM        | NM        |
|          |                                        | DTP (ft)             | NM       | NM        | NM        | NM        |
|          |                                        | LNAPL Thickness (ft) | NM       | NM        | NM        | NM        |
| QPTW-10  | 2.60                                   | DTW (ft)             | NM       | 3.37      | 2.84      | 5.60      |
|          |                                        | DTP (ft)             | NM       | 2.77      | 2.41      | 3.27      |
|          |                                        | LNAPL Thickness (ft) | NM       | 0.60      | 0.43      | 2.33      |
| QPTW-11  | 2.68                                   | DTW (ft)             | NM       | NM        | NM        | NM        |
|          |                                        | DTP (ft)             | NM       | NM        | NM        | NM        |
|          |                                        | LNAPL Thickness (ft) | NM       | NM        | NM        | NM        |
| QPTW-12  | 2.60                                   | DTW (ft)             | 3.84     | 2.58      | 1.95      | 3.03      |
|          |                                        | DTP (ft)             | NP       | NP        | NP        | NP        |
|          |                                        | LNAPL Thickness (ft) | NP       | NP        | NP        | NP        |
| QPTW-13  | 2.76                                   | DTW (ft)             | *(4)     | 3.11      | 2.53      | 3.72      |
|          |                                        | DTP (ft)             | 4.55     | NP        | NP        | NP        |
|          |                                        | LNAPL Thickness (ft) | NM       | NP        | NP        | NP        |
| QP1      |                                        | DTW (ft)             | 8.25     | 6.88      | 6.12      | 7.45      |
|          |                                        | DTP (ft)             | NP       | NP        | NP        | NP        |
|          |                                        | LNAPL Thickness (ft) | NP       | NP        | NP        | NP        |
| QP2      |                                        | DTW (ft)             | 7.35     | 5.77      | 5.53      | 6.38      |
|          |                                        | DTP (ft)             | 6.88     | 5.51      | 5.22      | 5.99      |
|          |                                        | LNAPL Thickness (ft) | 0.47     | 0.26      | 0.31      | 0.39      |
| QP3      |                                        | DTW (ft)             | 6.40     | 5.40      | 5.13      | 5.72      |
|          |                                        | DTP (ft)             | 6.39     | 5.39      | 5.11      | 5.68      |
|          |                                        | LNAPL Thickness (ft) | 0.01     | 0.01      | 0.02      | 0.04      |

Notes:

\*(1) underwater

\*(2) ice

\*(3) pump

\*(4) LNAPL is thick and therefore was unable to obtain water level

NM - not measured

NP- not present



Table 2a

**LNAPL Transmissivity Testing: QPTW-1  
RACER Saginaw Malleable Iron  
Saginaw, MI**

| Day                                                 | Time  | Elapsed Time<br>(hours) | DTP<br>(ft btor) | DTW<br>(ft btor) | In-Well LNAPL<br>Thickness<br>(in) | Volume<br>Removed<br>(ml) | Volume<br>Removed<br>(gal) | LNAPL Recovery Rate - $Q_n$<br>(gal/day) | 25% of Recovery<br>Rate<br>(gal/day) | Recovery Rate<br>Difference<br>(gal/day) | LNAPL Drawdown - $S_n$<br>(feet) | LNAPL Recovery Rate - $Q_n$<br>(ft <sup>3</sup> /day) |
|-----------------------------------------------------|-------|-------------------------|------------------|------------------|------------------------------------|---------------------------|----------------------------|------------------------------------------|--------------------------------------|------------------------------------------|----------------------------------|-------------------------------------------------------|
| 5/10/2016                                           | 9:07  | 0:00                    | 1.99             | 3.29             | 15.60                              | 750                       | 0.20                       |                                          |                                      |                                          |                                  |                                                       |
| 5/10/2016                                           | 9:12  | 0:05                    | 2.83             | 2.93             | 1.20                               |                           |                            |                                          |                                      |                                          | 0.84                             |                                                       |
| 5/10/2016                                           | 9:17  | 0:10                    | 2.69             | 2.79             | 1.20                               |                           |                            |                                          |                                      |                                          | 0.70                             |                                                       |
| 5/10/2016                                           | 9:22  | 0:15                    | 2.58             | 2.68             | 1.20                               |                           |                            |                                          |                                      |                                          | 0.59                             |                                                       |
| 5/10/2016                                           | 9:27  | 0:20                    | 2.50             | 2.60             | 1.20                               |                           |                            |                                          |                                      |                                          | 0.51                             |                                                       |
| 5/10/2016                                           | 9:32  | 0:25                    | 2.45             | 2.55             | 1.20                               |                           |                            |                                          |                                      |                                          | 0.46                             |                                                       |
| 5/10/2016                                           | 9:37  | 0:30                    | 2.40             | 2.51             | 1.32                               |                           |                            |                                          |                                      |                                          | 0.41                             |                                                       |
| 5/10/2016                                           | 9:42  | 0:35                    | 2.38             | 2.49             | 1.32                               |                           |                            |                                          |                                      |                                          | 0.39                             |                                                       |
| 5/10/2016                                           | 9:52  | 0:45                    | 2.34             | 2.45             | 1.32                               |                           |                            |                                          |                                      |                                          | 0.35                             |                                                       |
| 5/10/2016                                           | 10:02 | 0:55                    | 2.32             | 2.43             | 1.32                               |                           |                            |                                          |                                      |                                          | 0.33                             |                                                       |
| 5/10/2016                                           | 10:12 | 1:05                    | 2.31             | 2.42             | 1.32                               |                           |                            |                                          |                                      |                                          | 0.32                             |                                                       |
| 5/10/2016                                           | 10:22 | 1:15                    | 2.30             | 2.41             | 1.32                               |                           |                            |                                          |                                      |                                          | 0.31                             |                                                       |
| 5/10/2016                                           | 10:32 | 1:25                    | 2.30             | 2.41             | 1.32                               |                           |                            |                                          |                                      |                                          | 0.31                             |                                                       |
| 5/10/2016                                           | 10:47 | 1:40                    | 2.29             | 2.41             | 1.44                               | 60                        | 0.02                       | 0.2                                      | 0.1                                  | --                                       | 0.30                             | 0.03                                                  |
| 5/10/2016                                           | 11:02 | 1:55                    | 2.42             | 2.47             | 0.60                               |                           |                            |                                          |                                      |                                          | 0.43                             |                                                       |
| 5/10/2016                                           | 11:17 | 2:10                    | 2.35             | 2.40             | 0.60                               |                           |                            |                                          |                                      |                                          | 0.36                             |                                                       |
| 5/10/2016                                           | 11:37 | 2:30                    | 2.32             | 2.37             | 0.60                               |                           |                            |                                          |                                      |                                          | 0.33                             |                                                       |
| 5/10/2016                                           | 11:57 | 2:50                    | 2.30             | 2.35             | 0.60                               |                           |                            |                                          |                                      |                                          | 0.31                             |                                                       |
| 5/10/2016                                           | 12:17 | 3:10                    | 2.29             | 2.34             | 0.60                               |                           |                            |                                          |                                      |                                          | 0.30                             |                                                       |
| 5/10/2016                                           | 12:47 | 3:40                    | 2.28             | 2.33             | 0.60                               |                           |                            |                                          |                                      |                                          | 0.29                             |                                                       |
| 5/10/2016                                           | 13:17 | 4:10                    | 2.27             | 2.32             | 0.60                               |                           |                            |                                          |                                      |                                          | 0.28                             |                                                       |
| 5/10/2016                                           | 14:17 | 5:10                    | 2.25             | 2.31             | 0.72                               |                           |                            |                                          |                                      |                                          | 0.26                             |                                                       |
| 5/10/2016                                           | 15:17 | 6:10                    | 2.24             | 2.30             | 0.72                               |                           |                            |                                          |                                      |                                          | 0.25                             |                                                       |
| 5/10/2016                                           | 16:17 | 7:10                    | 2.24             | 2.30             | 0.72                               |                           |                            |                                          |                                      |                                          | 0.25                             |                                                       |
| Inputs                                              |       |                         |                  |                  |                                    |                           |                            |                                          |                                      |                                          | 0.42                             | 0.03                                                  |
| LNAPL Transmissivity - $T_n$ (ft <sup>2</sup> /day) |       |                         |                  |                  |                                    |                           |                            |                                          |                                      |                                          | 0.05                             |                                                       |



Table 2b

**LNAPL Transmissivity Testing: QPTW-3R  
RACER Saginaw Malleable Iron  
Saginaw, MI**

| Day                                                 | Time  | Elapsed Time<br>(hours) | DTP<br>(ft btor) | DTW<br>(ft btor) | In-Well LNAPL<br>Thickness<br>(in) | Volume<br>Removed<br>(ml) | Volume<br>Removed<br>(gal) | LNAPL Recovery Rate - $Q_n$<br>(gal/day) | 25% of Recovery<br>Rate<br>(gal/day) | Recovery Rate<br>Difference<br>(gal/day) | LNAPL Drawdown - $S_n$<br>(feet) | LNAPL Recovery Rate - $Q_n$<br>(ft <sup>3</sup> /day) |
|-----------------------------------------------------|-------|-------------------------|------------------|------------------|------------------------------------|---------------------------|----------------------------|------------------------------------------|--------------------------------------|------------------------------------------|----------------------------------|-------------------------------------------------------|
| 4/28/2016                                           | 11:35 | 0:00                    | 1.99             | 3.29             | 15.60                              | 1200                      | 0.32                       |                                          |                                      |                                          |                                  |                                                       |
| 4/28/2016                                           | 11:40 | 0:05                    | 2.83             | 2.93             | 1.20                               |                           |                            |                                          |                                      |                                          | 0.84                             |                                                       |
| 4/28/2016                                           | 11:45 | 0:10                    | 2.69             | 2.79             | 1.20                               |                           |                            |                                          |                                      |                                          | 0.70                             |                                                       |
| 4/28/2016                                           | 11:50 | 0:15                    | 2.58             | 2.68             | 1.20                               |                           |                            |                                          |                                      |                                          | 0.59                             |                                                       |
| 4/28/2016                                           | 11:55 | 0:20                    | 2.50             | 2.60             | 1.20                               |                           |                            |                                          |                                      |                                          | 0.51                             |                                                       |
| 4/28/2016                                           | 12:05 | 0:30                    | 2.45             | 2.55             | 1.20                               |                           |                            |                                          |                                      |                                          | 0.46                             |                                                       |
| 4/28/2016                                           | 12:15 | 0:40                    | 2.40             | 2.51             | 1.32                               |                           |                            |                                          |                                      |                                          | 0.41                             |                                                       |
| 4/28/2016                                           | 12:25 | 0:50                    | 2.38             | 2.49             | 1.32                               |                           |                            |                                          |                                      |                                          | 0.39                             |                                                       |
| 4/28/2016                                           | 12:35 | 1:00                    | 2.34             | 2.45             | 1.32                               | 90                        | 0.02                       | 0.6                                      | 0.1                                  |                                          | 0.35                             | 0.08                                                  |
| 4/28/2016                                           | 12:45 | 1:10                    | 2.32             | 2.43             | 1.32                               |                           |                            |                                          |                                      |                                          | 0.33                             |                                                       |
| 4/28/2016                                           | 12:55 | 1:20                    | 2.31             | 2.42             | 1.32                               |                           |                            |                                          |                                      |                                          | 0.32                             |                                                       |
| 4/28/2016                                           | 13:10 | 1:35                    | 2.30             | 2.41             | 1.32                               |                           |                            |                                          |                                      |                                          | 0.31                             |                                                       |
| 4/28/2016                                           | 13:25 | 1:50                    | 2.30             | 2.41             | 1.32                               |                           |                            |                                          |                                      |                                          | 0.31                             |                                                       |
| 4/28/2016                                           | 13:40 | 2:05                    | 2.29             | 2.41             | 1.44                               | 60                        | 0.02                       | 0.4                                      | 0.1                                  | 0.2                                      | 0.30                             | 0.05                                                  |
| 4/28/2016                                           | 13:55 | 2:20                    | 2.42             | 2.47             | 0.60                               |                           |                            |                                          |                                      |                                          | 0.43                             |                                                       |
| 4/28/2016                                           | 14:15 | 2:40                    | 2.35             | 2.40             | 0.60                               |                           |                            |                                          |                                      |                                          | 0.36                             |                                                       |
| 4/28/2016                                           | 14:35 | 3:00                    | 2.32             | 2.37             | 0.60                               |                           |                            |                                          |                                      |                                          | 0.33                             |                                                       |
| 4/28/2016                                           | 14:55 | 3:20                    | 2.30             | 2.35             | 0.60                               |                           |                            |                                          |                                      |                                          | 0.31                             |                                                       |
| 4/28/2016                                           | 15:15 | 3:40                    | 2.29             | 2.34             | 0.60                               |                           |                            |                                          |                                      |                                          | 0.30                             |                                                       |
| 4/28/2016                                           | 15:35 | 4:00                    | 2.28             | 2.33             | 0.60                               |                           |                            |                                          |                                      |                                          | 0.29                             |                                                       |
| 4/28/2016                                           | 16:05 | 4:30                    | 2.27             | 2.32             | 0.60                               |                           |                            |                                          |                                      |                                          | 0.28                             |                                                       |
| Inputs                                              |       |                         |                  |                  |                                    |                           |                            |                                          |                                      |                                          | 0.32                             | 0.05                                                  |
| LNAPL Transmissivity - $T_n$ (ft <sup>2</sup> /day) |       |                         |                  |                  |                                    |                           |                            |                                          |                                      |                                          | 0.1                              |                                                       |

Table 2c

**LNAPL Transmissivity Testing: QPTW-4  
RACER Saginaw Malleable Iron  
Saginaw, MI**

| Day                                                 | Time  | Elapsed Time<br>(hours) | DTP<br>(ft btor) | DTW<br>(ft btor) | In-Well LNAPL<br>Thickness<br>(in) | Volume<br>Removed<br>(ml) | Volume<br>Removed<br>(gal) | LNAPL Recovery Rate - $Q_n$<br>(gal/day) | 25% of Recovery<br>Rate<br>(gal/day) | Recovery Rate<br>Difference<br>(gal/day) | LNAPL Drawdown - $S_n$<br>(feet) | LNAPL Recovery Rate - $Q_n$<br>(ft <sup>3</sup> /day) |
|-----------------------------------------------------|-------|-------------------------|------------------|------------------|------------------------------------|---------------------------|----------------------------|------------------------------------------|--------------------------------------|------------------------------------------|----------------------------------|-------------------------------------------------------|
| 5/10/2016                                           | 8:05  | 0:00                    | 1.80             | 2.77             | 11.64                              | 550                       | 0.15                       |                                          |                                      |                                          |                                  |                                                       |
| 5/10/2016                                           | 8:10  | 0:05                    | 2.14             | 2.23             | 1.08                               |                           |                            |                                          |                                      |                                          | 0.34                             |                                                       |
| 5/10/2016                                           | 8:15  | 0:10                    | 2.01             | 2.12             | 1.32                               |                           |                            |                                          |                                      |                                          | 0.21                             |                                                       |
| 5/10/2016                                           | 8:20  | 0:15                    | 1.95             | 2.07             | 1.44                               |                           |                            |                                          |                                      |                                          | 0.15                             |                                                       |
| 5/10/2016                                           | 8:25  | 0:20                    | 1.93             | 2.05             | 1.44                               |                           |                            |                                          |                                      |                                          | 0.13                             |                                                       |
| 5/10/2016                                           | 8:30  | 0:25                    | 1.92             | 2.04             | 1.44                               |                           |                            |                                          |                                      |                                          | 0.12                             |                                                       |
| 5/10/2016                                           | 8:35  | 0:30                    | 1.91             | 2.03             | 1.44                               | 60                        | 0.02                       | 0.8                                      | 0.2                                  |                                          | 0.11                             | 0.10                                                  |
| 5/10/2016                                           | 8:45  | 0:40                    | 1.96             | 2.02             | 0.72                               |                           |                            |                                          |                                      |                                          | 0.16                             |                                                       |
| 5/10/2016                                           | 8:55  | 0:50                    | 1.92             | 1.99             | 0.84                               |                           |                            |                                          |                                      |                                          | 0.12                             |                                                       |
| 5/10/2016                                           | 9:05  | 1:00                    | 1.91             | 1.98             | 0.84                               |                           |                            |                                          |                                      |                                          | 0.11                             |                                                       |
| 5/10/2016                                           | 9:15  | 1:10                    | 1.91             | 1.98             | 0.84                               |                           |                            |                                          |                                      |                                          | 0.11                             |                                                       |
| 5/10/2016                                           | 9:30  | 1:25                    | 1.91             | 1.98             | 0.84                               |                           |                            |                                          |                                      |                                          | 0.11                             |                                                       |
| 5/10/2016                                           | 9:45  | 1:40                    | 1.91             | 1.98             | 0.84                               |                           |                            |                                          |                                      |                                          | 0.11                             |                                                       |
| 5/10/2016                                           | 10:00 | 1:55                    | 1.90             | 1.98             | 0.96                               |                           |                            |                                          |                                      |                                          | 0.10                             |                                                       |
| 5/10/2016                                           | 10:20 | 2:15                    | 1.90             | 1.98             | 0.96                               |                           |                            |                                          |                                      |                                          | 0.10                             |                                                       |
| 5/10/2016                                           | 10:40 | 2:35                    | 1.90             | 1.98             | 0.96                               |                           |                            |                                          |                                      |                                          | 0.10                             |                                                       |
| 5/10/2016                                           | 11:00 | 2:55                    | 1.90             | 1.98             | 0.96                               |                           |                            |                                          |                                      |                                          | 0.10                             |                                                       |
| 5/10/2016                                           | 11:30 | 3:25                    | 1.90             | 1.98             | 0.96                               | 40                        | 0.01                       | 0.09                                     | 0.02                                 | 0.2                                      | 0.10                             | 0.01                                                  |
| 5/10/2016                                           | 12:00 | 3:55                    | 1.91             | 1.96             | 0.60                               |                           |                            |                                          |                                      |                                          | 0.11                             |                                                       |
| 5/10/2016                                           | 12:30 | 4:25                    | 1.91             | 1.96             | 0.60                               |                           |                            |                                          |                                      |                                          | 0.11                             |                                                       |
| 5/10/2016                                           | 13:00 | 4:55                    | 1.90             | 1.96             | 0.72                               |                           |                            |                                          |                                      |                                          | 0.10                             |                                                       |
| 5/10/2016                                           | 14:00 | 5:55                    | 1.89             | 1.95             | 0.72                               |                           |                            |                                          |                                      |                                          | 0.09                             |                                                       |
| 5/10/2016                                           | 15:00 | 6:55                    | 1.89             | 1.95             | 0.72                               |                           |                            |                                          |                                      |                                          | 0.09                             |                                                       |
| 5/10/2016                                           | 16:00 | 7:55                    | 1.89             | 1.95             | 0.72                               |                           |                            |                                          |                                      |                                          | 0.09                             |                                                       |
| Inputs                                              |       |                         |                  |                  |                                    |                           |                            |                                          |                                      |                                          | 0.11                             | 0.01                                                  |
| LNAPL Transmissivity - $T_n$ (ft <sup>2</sup> /day) |       |                         |                  |                  |                                    |                           |                            |                                          |                                      |                                          | 0.08                             |                                                       |

Table 2d

**LNAPL Transmissivity Testing: QPTW-5  
RACER Saginaw Malleable Iron  
Saginaw, MI**

| Day       | Time  | Elapsed Time<br>(hours) | DTP<br>(ft btor) | DTW<br>(ft btor) | In-Well LNAPL<br>Thickness<br>(in) | Volume<br>Removed<br>(ml) | Volume<br>Removed<br>(gal) | LNAPL Recovery Rate - $Q_n$<br>(gal/day) | 25% of Recovery<br>Rate<br>(gal/day) | Recovery Rate<br>Difference<br>(gal/day) | LNAPL Drawdown - $S_n$<br>(feet) | LNAPL Recovery Rate - $Q_n$<br>(ft <sup>3</sup> /day) |
|-----------|-------|-------------------------|------------------|------------------|------------------------------------|---------------------------|----------------------------|------------------------------------------|--------------------------------------|------------------------------------------|----------------------------------|-------------------------------------------------------|
| 4/29/2016 | 7:40  | 0:00                    | 2.41             | 4.59             | 26.16                              | 1400                      | 0.37                       |                                          |                                      |                                          |                                  |                                                       |
| 4/29/2016 | 7:45  | 0:05                    | 3.78             | 3.96             | 2.16                               |                           |                            |                                          |                                      |                                          | 1.37                             |                                                       |
| 4/29/2016 | 7:50  | 0:10                    | 3.35             | 3.57             | 2.64                               |                           |                            |                                          |                                      |                                          | 0.94                             |                                                       |
| 4/29/2016 | 7:55  | 0:15                    | 3.08             | 3.45             | 4.44                               |                           |                            |                                          |                                      |                                          | 0.67                             |                                                       |
| 4/29/2016 | 8:00  | 0:20                    | 2.93             | 3.29             | 4.32                               | 200                       | 0.053                      | 4                                        | 1.0                                  |                                          | 0.52                             | 0.51                                                  |
| 4/29/2016 | 8:05  | 0:25                    | 3.04             | 3.15             | 1.32                               |                           |                            |                                          |                                      |                                          | 0.63                             |                                                       |
| 4/29/2016 | 8:10  | 0:30                    | 2.91             | 3.04             | 1.56                               |                           |                            |                                          |                                      |                                          | 0.50                             |                                                       |
| 4/29/2016 | 8:15  | 0:35                    | 2.82             | 2.97             | 1.80                               |                           |                            |                                          |                                      |                                          | 0.41                             |                                                       |
| 4/29/2016 | 8:20  | 0:40                    | 2.78             | 2.93             | 1.80                               |                           |                            |                                          |                                      |                                          | 0.37                             |                                                       |
| 4/29/2016 | 8:30  | 0:50                    | 2.70             | 2.86             | 1.92                               |                           |                            |                                          |                                      |                                          | 0.29                             |                                                       |
| 4/29/2016 | 8:40  | 1:00                    | 2.67             | 2.84             | 2.04                               |                           |                            |                                          |                                      |                                          | 0.26                             |                                                       |
| 4/29/2016 | 8:50  | 1:10                    | 2.64             | 2.85             | 2.52                               |                           |                            |                                          |                                      |                                          | 0.23                             |                                                       |
| 4/29/2016 | 9:00  | 1:20                    | 2.62             | 2.87             | 3.00                               | 120                       | 0.032                      | 0.8                                      | 0.2                                  | 3                                        | 0.21                             | 0.10                                                  |
| 4/29/2016 | 9:10  | 1:30                    | 2.76             | 2.89             | 1.56                               |                           |                            |                                          |                                      |                                          | 0.35                             |                                                       |
| 4/29/2016 | 9:20  | 1:40                    | 2.67             | 2.85             | 2.16                               |                           |                            |                                          |                                      |                                          | 0.26                             |                                                       |
| 4/29/2016 | 9:30  | 1:50                    | 2.65             | 2.85             | 2.40                               |                           |                            |                                          |                                      |                                          | 0.24                             |                                                       |
| 4/29/2016 | 9:40  | 2:00                    | 2.63             | 2.86             | 2.76                               |                           |                            |                                          |                                      |                                          | 0.22                             |                                                       |
| 4/29/2016 | 9:55  | 2:15                    | 2.62             | 2.88             | 3.12                               | 135                       | 0.036                      | 0.9                                      | 0.2                                  | 0.2                                      | 0.21                             | 0.12                                                  |
| 4/29/2016 | 10:10 | 2:30                    | 2.71             | 2.86             | 1.80                               |                           |                            |                                          |                                      |                                          | 0.30                             |                                                       |
| 4/29/2016 | 10:25 | 2:45                    | 2.65             | 2.85             | 2.40                               |                           |                            |                                          |                                      |                                          | 0.24                             |                                                       |
| 4/29/2016 | 10:40 | 3:00                    | 2.63             | 2.86             | 2.76                               |                           |                            |                                          |                                      |                                          | 0.22                             |                                                       |
| 4/29/2016 | 10:55 | 3:15                    | 2.62             | 2.89             | 3.24                               | 150                       | 0.040                      | 1                                        | 0.2                                  | 0.02                                     | 0.21                             | 0.13                                                  |
| 4/29/2016 | 11:15 | 3:35                    | 2.68             | 2.82             | 1.68                               |                           |                            |                                          |                                      |                                          | 0.27                             |                                                       |
| 4/29/2016 | 11:35 | 3:55                    | 2.62             | 2.83             | 2.52                               |                           |                            |                                          |                                      |                                          | 0.21                             |                                                       |
| 4/29/2016 | 11:55 | 4:15                    | 2.61             | 2.85             | 2.88                               |                           |                            |                                          |                                      |                                          | 0.20                             |                                                       |
| 4/29/2016 | 12:25 | 4:45                    | 2.60             | 2.92             | 3.84                               | 175                       | 0.046                      | 0.7                                      | 0.2                                  | 0.2                                      | 0.19                             | 0.10                                                  |
| 4/29/2016 | 12:55 | 5:15                    | 2.64             | 2.81             | 2.04                               |                           |                            |                                          |                                      |                                          | 0.23                             |                                                       |
| 4/29/2016 | 13:25 | 5:45                    | 2.60             | 2.83             | 2.76                               |                           |                            |                                          |                                      |                                          | 0.19                             |                                                       |
| 4/29/2016 | 13:55 | 6:15                    | 2.58             | 2.87             | 3.48                               |                           |                            |                                          |                                      |                                          | 0.17                             |                                                       |
| 4/29/2016 | 14:25 | 6:45                    | 2.56             | 2.92             | 4.32                               |                           |                            |                                          |                                      |                                          | 0.15                             |                                                       |
| 4/29/2016 | 14:55 | 7:15                    | 2.56             | 2.96             | 4.80                               |                           |                            |                                          |                                      |                                          | 0.15                             |                                                       |

Inputs **0.27** **0.11**

LNAPL Transmissivity -  $T_n$  (ft<sup>2</sup>/day) **0.3**

Table 2e

**LNAPL Transmissivity Testing: QPTW-10  
RACER Saginaw Malleable Iron  
Saginaw, MI**

| Day                                                                 | Time  | Elapsed Time<br>(hours) | DTP<br>(ft btor) | DTW<br>(ft btor) | In-Well LNAPL<br>Thickness<br>(in) | Volume<br>Removed<br>(ml) | Volume<br>Removed<br>(gal) | LNAPL Recovery Rate - $Q_n$<br>(gal/day) | 25% of Recovery<br>Rate<br>(gal/day) | Recovery Rate<br>Difference<br>(gal/day) | LNAPL Drawdown - $S_n$<br>(feet) | LNAPL Recovery Rate - $Q_n$<br>(ft <sup>3</sup> /day) |
|---------------------------------------------------------------------|-------|-------------------------|------------------|------------------|------------------------------------|---------------------------|----------------------------|------------------------------------------|--------------------------------------|------------------------------------------|----------------------------------|-------------------------------------------------------|
| 4/28/2016                                                           | 8:05  | 0:00                    | 2.58             | 2.81             | 2.76                               | 125                       | 0.03                       |                                          |                                      |                                          |                                  |                                                       |
| 4/28/2016                                                           | 8:10  | 0:05                    | 2.60             | 2.67             | 0.84                               | 45                        | 0.01                       | 3.4                                      |                                      |                                          | 0.02                             | 0.46                                                  |
| 4/28/2016                                                           | 8:15  | 0:10                    | 2.59             | 2.64             | 0.60                               | 30                        | 0.008                      | 2.3                                      | 0.6                                  |                                          | 0.01                             | 0.31                                                  |
| 4/28/2016                                                           | 8:20  | 0:15                    | 2.63             | 2.65             | 0.24                               |                           |                            |                                          |                                      |                                          | 0.05                             |                                                       |
| 4/28/2016                                                           | 8:25  | 0:20                    | 2.59             | 2.63             | 0.48                               |                           |                            |                                          |                                      | 0.6                                      | 0.01                             |                                                       |
| 4/28/2016                                                           | 8:30  | 0:25                    | 2.58             | 2.63             | 0.60                               | 30                        | 0.008                      | 0.8                                      | 0.2                                  |                                          | 0.00                             | 0.10                                                  |
| 4/28/2016                                                           | 8:40  | 0:35                    | 2.59             | 2.62             | 0.36                               |                           |                            |                                          |                                      | 0.0                                      | 0.01                             |                                                       |
| 4/28/2016                                                           | 8:50  | 0:45                    | 2.59             | 2.62             | 0.36                               |                           |                            |                                          |                                      |                                          | 0.01                             |                                                       |
| 4/28/2016                                                           | 9:00  | 0:55                    | 2.59             | 2.62             | 0.36                               |                           |                            |                                          |                                      | 0.0                                      | 0.01                             |                                                       |
| 4/28/2016                                                           | 9:10  | 1:05                    | 2.59             | 2.63             | 0.48                               | 25                        | 0.007                      | 0.2                                      | 0.1                                  |                                          | 0.01                             | 0.03                                                  |
| 4/28/2016                                                           | 9:20  | 1:15                    | 2.59             | 2.61             | 0.24                               |                           |                            |                                          |                                      |                                          | 0.01                             |                                                       |
| 4/28/2016                                                           | 9:35  | 1:30                    | 2.59             | 2.61             | 0.24                               |                           |                            |                                          |                                      | 0.0                                      | 0.01                             |                                                       |
| 4/28/2016                                                           | 9:50  | 1:45                    | 2.59             | 2.61             | 0.24                               |                           |                            |                                          |                                      |                                          | 0.01                             |                                                       |
| 4/28/2016                                                           | 10:10 | 2:05                    | 2.59             | 2.61             | 0.24                               |                           |                            |                                          |                                      |                                          | 0.01                             |                                                       |
| 4/28/2016                                                           | 10:30 | 2:25                    | 2.59             | 2.61             | 0.24                               |                           |                            |                                          |                                      | 0.0                                      | 0.01                             |                                                       |
| 4/28/2016                                                           | 11:00 | 2:55                    | 2.59             | 2.61             | 0.24                               |                           |                            |                                          |                                      |                                          | 0.01                             |                                                       |
| 4/28/2016                                                           | 11:30 | 3:25                    | 2.59             | 2.61             | 0.24                               |                           |                            |                                          |                                      | 0.0                                      | 0.01                             |                                                       |
| 4/28/2016                                                           | 12:00 | 3:55                    | 2.59             | 2.61             | 0.24                               |                           |                            |                                          |                                      |                                          | 0.01                             |                                                       |
| 4/28/2016                                                           | 13:00 | 4:55                    | 2.59             | 2.61             | 0.24                               |                           |                            |                                          |                                      | 0.0                                      | 0.01                             |                                                       |
| 4/28/2016                                                           | 14:00 | 5:55                    | 2.59             | 2.61             | 0.24                               |                           |                            |                                          |                                      |                                          | 0.01                             |                                                       |
| 4/28/2016                                                           | 15:00 | 6:55                    | 2.59             | 2.61             | 0.24                               |                           |                            |                                          |                                      | 0.0                                      | 0.01                             |                                                       |
| 4/28/2016                                                           | 16:00 | 7:55                    | 2.59             | 2.61             | 0.24                               |                           |                            |                                          |                                      |                                          | 0.01                             | 0.00 <sup>a</sup>                                     |
| <b>Inputs</b>                                                       |       |                         |                  |                  |                                    |                           |                            |                                          |                                      |                                          | <b>0.01</b>                      | <b>0.00</b>                                           |
| <b>LNAPL Transmissivity - <math>T_n</math> (ft<sup>2</sup>/day)</b> |       |                         |                  |                  |                                    |                           |                            |                                          |                                      |                                          | <b>0.00</b>                      |                                                       |

Notes:

<sup>a</sup>LNAPL recovery rate assumed to be zero since there was no LNAPL recharge into the well during the last 6.5 hours of test.

# Attachment A

## November 2014 Presentation

# LNAPL STATUS

## RACER Malleable Iron Industrial Land

Review with MDEQ  
November 7, 2014



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## OUTLINE

### 1. Malleable Iron Industrial Land (Site)

- A. Background
- B. Adjacent Land Uses
- C. Site Geology
- D. Site Hydrogeology
- E. Remedial History

### 2. Southwest Plant LNAPL Area

- A. Background
- B. Previous Characterization
- C. Previous Remedial Activities
- D. LNAPL Conceptual Site Model
- E. LNAPL Remedial Decision Tree
- F. Conclusions/Recommendations



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# OUTLINE

## 3. Quench Pit LNAPL Area

- A. Background
- B. Previous Characterization
- C. Previous Remedial Activities
- D. LNAPL Conceptual Site Model
- E. LNAPL Remedial Decision Tree
- F. Conclusions/Recommendations

## 4. Summary of Review

## 5. Discussion



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# 1. MALLEABLE IRON INDUSTRIAL LAND (SITE)



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## 1. Malleable Iron Industrial Land

### A. Background

- ❑ Approximate size of Site: 150 acres
- ❑ Approximate size of former Saginaw Malleable Iron (SMI) Plant : 1 million square feet
- ❑ Approximate slab elevation: 593.5 feet AMSL
- ❑ Historical manufacturing operations involved casting and heat treating of iron
- ❑ Historically, used large volumes of quench and hydraulic oil
- ❑ Operated from 1907 to 2007
- ❑ Demolition was initiated in 2009 and was completed in December 2010



## 1. Malleable Iron Industrial Land

### B. Adjacent land uses

- ❑ To the north is a residential area
- ❑ To the south is the Greenpoint landfill (RACER property)
- ❑ To the west is the former Delphi Plant 2 which historically cut and ground parts. Delphi Plant 2 was closed in 2001
- ❑ To the east is the Saginaw River



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## 1. Malleable Iron Industrial Land

### C. Site Geology

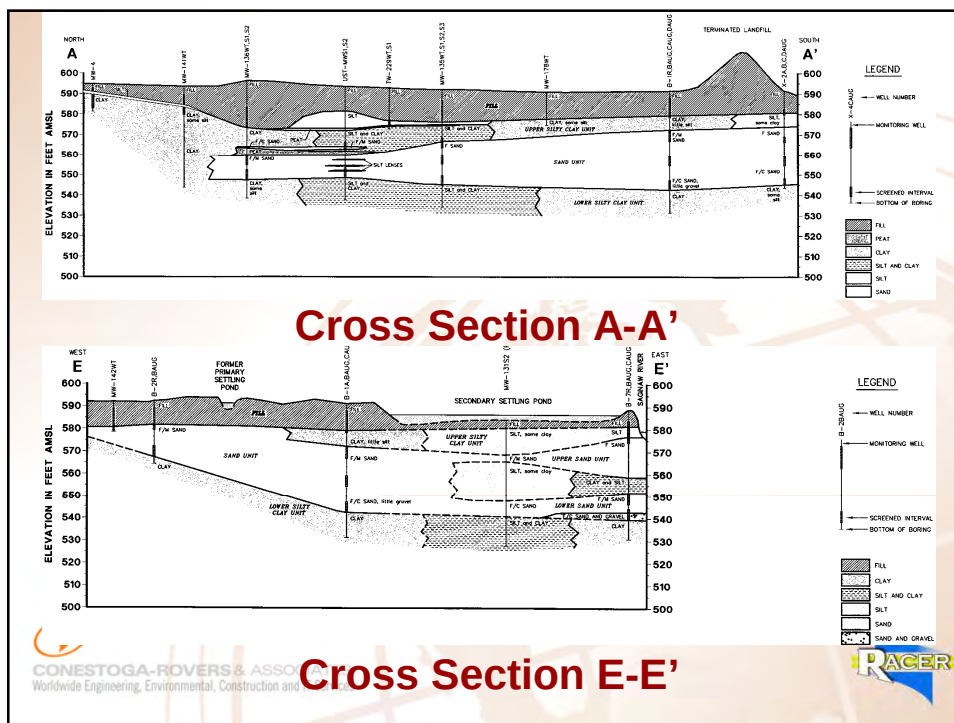
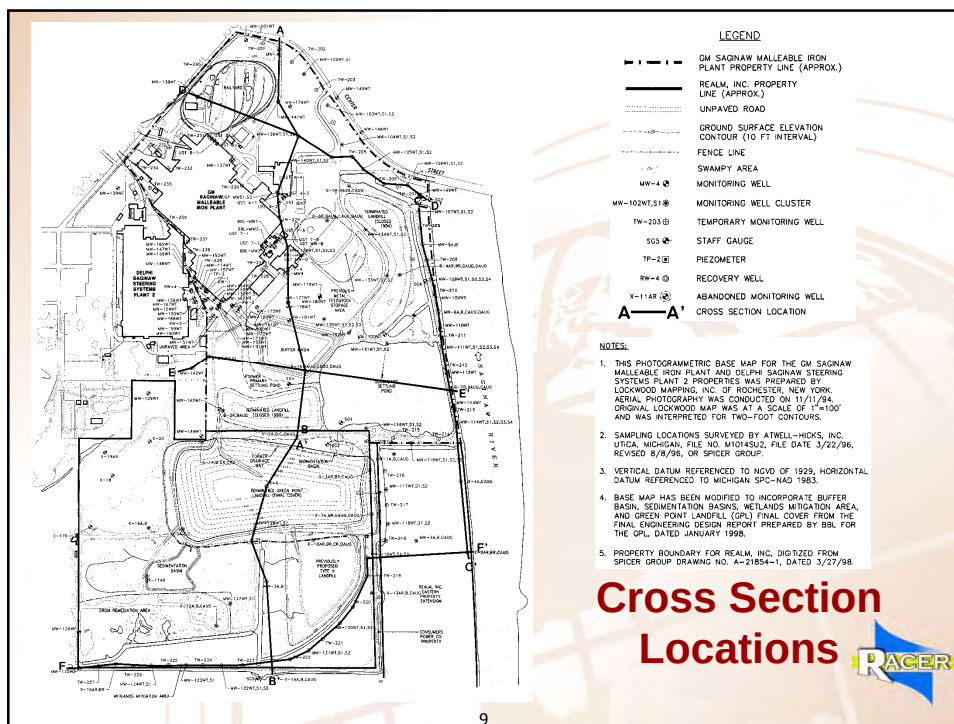
- ❑ Overburden at the Site is approximately 86 feet thick and is comprised generally of (in descending order): fill materials, glaciolacustrine silts and clays, a sand unit which becomes coarser with depth, glaciolacustrine silty clay, and glacial till
- ❑ The Site lies over bedrock units in the central part of the Michigan basin, the shallowest of which consists of Pennsylvanian age bedrock of the Grand River and Saginaw Formations

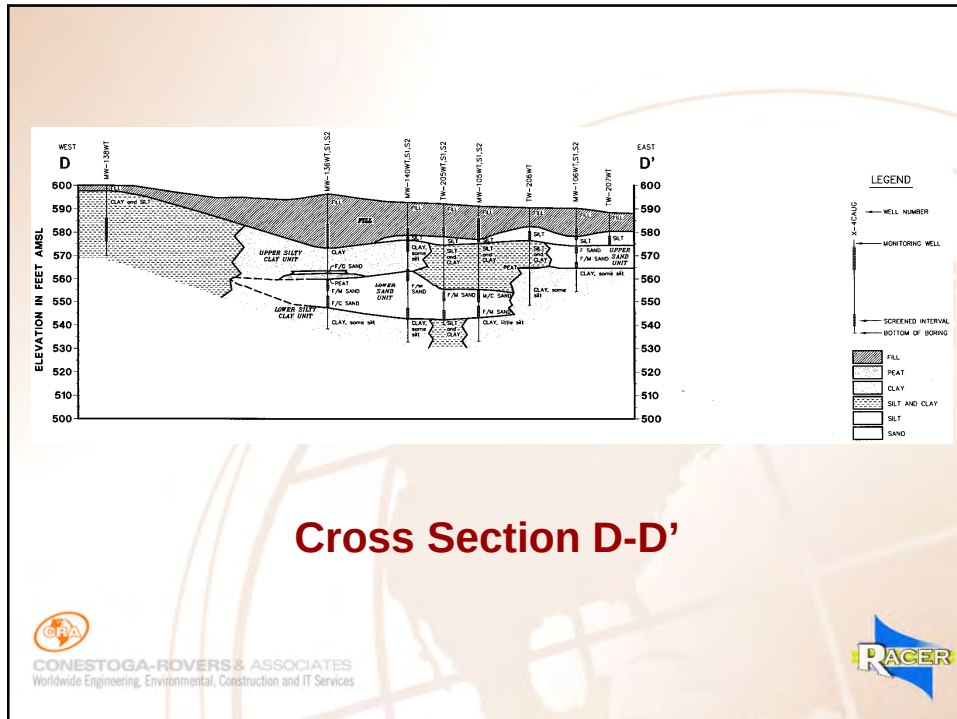


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## 1. Malleable Iron Industrial Land

### D. Site Hydrogeology

- ❑ Shallow groundwater exists in an unconfined condition in the fill or silty clay units and the depth to groundwater varies from 2 to 10 feet bgs
- ❑ The fill/sand units, which pinch out toward the west, act as primary pathways for groundwater flow
- ❑ The underlying silty clay unit acts as a local flow boundary or lower confining unit
- ❑ The bedrock aquifer is confined by the continuous lower silty clay
- ❑ Groundwater flow is controlled on a regional scale by the Saginaw River, which acts as a discharge point for overburden groundwater



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## E. Remedial History

- ❑ The Remedial Investigation (RI) was completed between December 1994 and August 2000 in accordance with the MDEQ approved Work Plan and the additional phases of RI activities
- ❑ The RI report was submitted to the MDEQ on November 27, 2000 and approved on July 5, 2001



## 1. Malleable Iron Industrial Land

### E. Remedial History cont'd

- A Feasibility Study, including Human Health Evaluation Report (HHE) and Ecological Risk Assessment (ERA) Report, was completed and submitted in July of 2003 and approved by the MDEQ in a letter dated November 18, 2003
- The HHE evaluated groundwater contact, industrial groundwater volatilization to indoor air inhalation, flammability and explosivity screening, water solubility screening, soil direct contact, and industrial drinking water protection exposure pathways in the Southwest Plant LNAPL and Quench Pit areas
- LNAPL was being addressed through on-going LNAPL removal and monitoring, evaluation of remedial alternatives, other than deed restrictions, were not required at that time



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## 1. Malleable Iron Industrial Land

### E. Remedial History cont'd

- Environmental Indicator (EI) CA 750 – Migration of contaminated groundwater under control was approved by US EPA on September 15, 2006
  - The EI CA 750 identified that monitoring should continue in the areas with LNAPL. At the time the document was prepared LNAPL was being recovered
- EI CA 725 – Current Human Exposures Under Control was approved by US EPA on September 27, 2007



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## 1. Malleable Iron Industrial Land

### E. Remedial History cont'd

- ❑ A Remedial Action Plan (RAP) was initially submitted on July 30, 2008, was modified on December 31, 2008, and approved with conditions on February 27, 2009. A revised RAP was submitted on May 29, 2009
- ❑ The approved RAP included the following specific activities associated with the Southwest Plant and Quench Pit LNAPL areas:
  - ❑ Continued operation and maintenance of LNAPL recovery systems
  - ❑ Areas subject to restrictive covenant that limits property to non residential, prohibits the installation of potable water supply wells, and places restrictions on intrusive activities. Worker duration restrictions also apply
  - ❑ Monitoring of LNAPL thickness and groundwater level elevations on an annual basis



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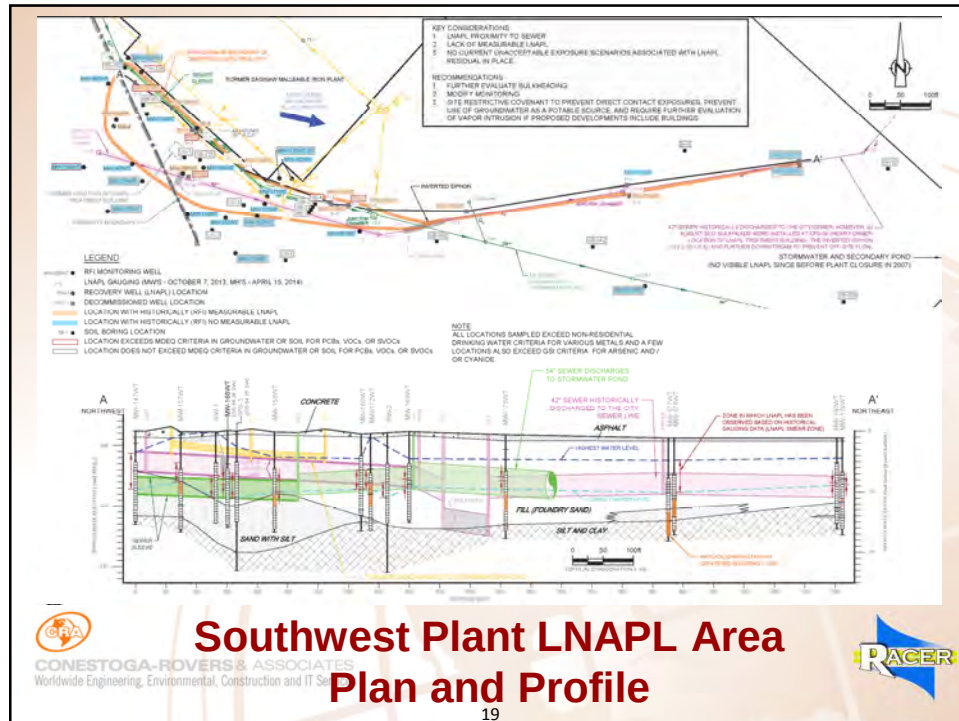
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## 2. SOUTHWEST PLANT LNAPL AREA



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## 2. Southwest Plant LNAPL Area

### A. Background

- ❑ LNAPL was first observed in monitoring wells in the southwest corner of the Plant during the RI in March 1995
- ❑ Subsequent investigations were completed between June 1995 and August 1996 to determine the extent of LNAPL impacts and to provide additional data for design of a LNAPL and groundwater recovery and treatment system (completed in September 1997)
- ❑ An LNAPL fingerprint analyses was completed (January 2005)



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## 2. Southwest Plant LNAPL Area

### A. Background, cont'd

- ❑ The storm sewer system intersects groundwater table
  - ❑ Since demolition, the groundwater surface has risen (rebounded) in the area of the former Plant
- ❑ Two large storm sewers pass through the LNAPL area. The bedding for the two sewers were investigated for potential preferential pathways
- ❑ The magenta colored sewer on the plan and profile figure historically discharged to the City sewer system further downstream at Outfall CFD-02 (several bulkheads have been installed)
- ❑ The green colored sewer on the plan and profile figure discharges to the stormwater pond which discharges into the secondary pond. The secondary pond has no outlet.



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## 2. Southwest Plant LNAPL Area

### A. Background, cont'd

- ❑ A letter to cease automated recovery of LNAPL in the Southwest Plant LNAPL area was submitted in August 2010
- ❑ MDEQ agreed passive recovery was appropriate in October 2010
- ❑ In November 2013, a draft memorandum was submitted to the MDEQ for review, summarizing the LNAPL evaluation activities completed in the Southwest Plant LNAPL Area and proposed activities moving forward
- ❑ As a follow-up a presentation was given on May 5, 2014



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## 2. Southwest Plant LNAPL Area

### A. Background, cont'd

- ❑ As a follow-up to the May 5, 2014 meeting, a Proposed Monitoring Plan was submitted to the MDEQ on May 27, 2014
- ❑ Comments on the Proposed Monitoring Plan were received on August 21, 2014.
- ❑ A redline of the plan was submitted to the MDEQ on September 8, 2014 (response pending)



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## 2. Southwest Plant LNAPL Area

### B. Previous Characterization

- ❑ Investigation included:
  - ❑ 33 monitoring wells (including wells in sewer bedding)
  - ❑ 12 soil borings
  - ❑ 4 recovery wells
  - ❑ LNAPL, soil, and groundwater sampling
- ❑ Concentrations of PCBs detected during the RI were:
  - ❑ Non-detect to 9,600 ppm in LNAPL
  - ❑ Non-detect to 41 ppm in soil
  - ❑ No PCBs were reported in filtered groundwater samples
- ❑ LNAPL was characterized as an amber colored, light, viscous, multi-component mixture of petroleum based oils, containing PCBs



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## 2. Southwest Plant LNAPL Area

### B. Previous Characterization, cont'd

- ❑ The sewers at the Site have been investigated extensively since 1996:
  - ❑ 326 manhole surveys were completed at the former SMI Plant and 84 were completed at Delphi Plant 2 (prior to Delphi separation from GM)
  - ❑ More than 3,000 ft of sewers at the Former SMI Plant were evaluated using a combination of video inspections, visual observations, and dye testing
  - ❑ This resulted in a comprehensive sewer map that was developed for the Site including the Southwest Plant LNAPL Area
- ❑ Potential on-site sources of LNAPL are the historical operations of the former SMI Plant



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## 2. Southwest Plant LNAPL Area

### C. Previous Remedial Activities

- ❑ September 1995: Manual LNAPL recovery initiated from wells (bailing)
- ❑ April 1996: Repair of sewer that discharge to the stormwater pond
  - ❑ Various sections of the sewer (42" Ø concrete) that discharges to the stormwater pond, upstream of manhole W13.1 to manhole W6.8, were replaced to prevent LNAPL from entering the sewer
  - ❑ The two ends of a truncated 30" Ø sewer line which was previously abandoned was also located while completing the 42" Ø sewer repair
  - ❑ Approximately 4,300 gallons of LNAPL was removed from the 30" Ø abandoned sewer line and an additional 700 gallons of LNAPL was removed from the excavation
  - ❑ A recovery well (RW-1) was installed in the backfill of the 30" Ø abandoned sewer excavation to allow for ongoing LNAPL recovery



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## 2. Southwest Plant LNAPL Area

### C. Previous Remedial Activities, cont'd

- ❑ June 1996: Additional sewer repairs
  - ❑ Approximately 600 ft of cure-in-place lining was installed in the 42" Ø sewer line that formerly discharged to the City between the former Plant 2 diversion chamber and the inverted siphon (manhole V2.2 and manhole U1.6)
  - ❑ Three additional recovery wells (RW-2, RW-3, and RW-4) were installed
- ❑ September 1997: Initiated operation of LNAPL and Groundwater Recovery and Treatment System:
  - ❑ Four recovery wells
  - ❑ An oil/water separator
  - ❑ A hydrogen peroxide system to control iron bacteria
  - ❑ Bag filters
  - ❑ GAC treatment



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## 2. Southwest Plant LNAPL Area

### C. Previous Remedial Activities, cont'd

- ❑ July 1998: PCB impacted soil excavation
  - ❑ PCB impacted soil (up to 41 ppm) was excavated from a 40'x10' area to a depth of 1 ft, south of the Southwest Plant LNAPL Area
  - ❑ Confirmation samples confirmed that soils containing PCBs above industrial direct contact values were removed
- ❑ August 1998: Sewer Sleeve installation
  - ❑ Approximately 300 ft of 36" Ø HDPE pipe was installed between manhole W13.1 and W6.8 within the 42" Ø sewer line that discharges to the stormwater pond which discharges to the secondary pond
- ❑ Mid 1990's to 2000: More than 2,500 ft of sewers at the Site were cleaned by jetting and bucketing



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## 2. Southwest Plant LNAPL Area

### C. Previous Remedial Activities, cont'd

- ❑ August 2000: Stormwater Pond Improvements
  - ❑ Oily material identified in the stormwater pond in 1998
  - ❑ PCBs were detected in the oily material and from sediment samples located adjacent to the active storm sewer discharge line that goes through the LNAPL impacted area, however Industrial Direct Contact values for soil were not exceeded
  - ❑ No PCBs were detected in surface water
  - ❑ As a result of the supplemental investigation sediments were stabilized using lime and fly ash and the Stormwater Pond was lined in August 2000



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## 2. Southwest Plant LNAPL Area

### C. Previous Remedial Activities, cont'd

- ❑ October 1998 to 2007: Stormwater Pond Inspections/Maintenance
  - ❑ Inspections of the stormwater pond were conducted weekly for the presence of LNAPL
  - ❑ Oil absorbent booms and containment booms were replaced, as necessary
  - ❑ LNAPL was occasionally skimmed off the stormwater pond
  - ❑ Weekly inspections and maintenance of the stormwater pond ceased in 2007 when the plant was closed. Periodic inspections of the stormwater pond have been conducted since the plant closed
  - ❑ LNAPL has not been observed in the stormwater pond since before 2007



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## 2. Southwest Plant LNAPL Area

### C. Previous Remedial Activities, cont'd

- ❑ 1997 to 2007: O&M of LNAPL and Groundwater Recovery and Treatment System
  - ❑ May 2001: the scavenger pump in RW-1 was switched to a skimmer pump, and RW-2, RW-3, and RW-4 continued to operate with scavenger pumps
  - ❑ October 2001: RW-4 was disconnected from the system and wells located on the Delphi Plant 2 property were excluded from gauging
  - ❑ 3,700 gallons of LNAPL recovered
  - ❑ December 2007: Operation of the system ceased when power was turned off, as a result of SMI closure
  - ❑ Periodic monitoring of LNAPL thicknesses and manual LNAPL removal (bailing) in area wells was completed during the operation of the system



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## 2. Southwest Plant LNAPL Area

### C. Previous Remedial Activities, cont'd

- ❑ 2007 to Present: Post-LNAPL and Groundwater Recovery System Operation
  - ❑ 2007 to October 2013: Passive and/or manual recovery and monitoring has occurred periodically
  - ❑ July to August 2010: conducted a study to determine the effectiveness of passive recovery utilizing absorbent socks.
  - ❑ MDEQ approved use of passive recovery using absorbent socks instead of re-starting the system in October 2010
  - ❑ Measurable LNAPL (generally less than 0.1 ft present at four wells)
  - ❑ Late 2010: the water table rose above the top of a number of monitoring well screens due to groundwater rebound after plant demolition
  - ❑ April 2012: last measurable LNAPL reading



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## 2. Southwest Plant LNAPL Area

### C. Previous Remedial Activities, cont'd

- ❑ 2007 to Present: Post-LNAPL and Groundwater Recovery System Operation, cont'd
  - ❑ October 2013: last LNAPL readings taken (no measureable LNAPL) prior to abandonment of the majority of monitoring wells in the area
  - ❑ 2007 to present: no LNAPL observed in the stormwater pond
- ❑ August 2011: Bulkheads installed in sewer that discharge to City
  - ❑ Flow directed to the City sewer from the 42" Ø sewer was bulkheaded at the inverted siphon (manhole V2.2 to manhole U1.6, at CFD-06, and further downstream where the 42" Ø sewer connects to the City 60" Ø sewer



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## 2. Southwest Plant LNAPL Area

### C. Previous Remedial Activities, cont'd

- ❑ 2014: Quarterly Manhole inspections initiated in June
  - ❑ Nine manholes are inspected quarterly for the presence of LNAPL
  - ❑ During the first quarterly inspection in June, LNAPL was observed in three manholes (one on 30" abandoned sewer, X8.2, and W6.8). Absorbent booms were installed in each of the manholes.
  - ❑ Booms were removed in the second quarterly event in October with a saturation level of approximately 25% (≤ 2 gallons per boom). During the second quarterly event, there was no measurable product in the manholes inspected
- ❑ To date no LNAPL has been observed at the ground surface



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## 2. Southwest Plant LNAPL Area

### D.1 LCSM - Release History

- ❑ Potential sources of LNAPL are the historical operational activities at the Former SMI Plant and adjacent property
  - ❑ Former SMI Plant closed in 2007
  - ❑ Former Delphi Plant 2 was closed in 2001

### D.2 LCSM - Remedial History

- ❑ Recovery of LNAPL has been performed by various methods since 1995
  - ❑ Automated recovery system efficiency decreased significantly prior to water table submerging screens post-demolition (ratio of LNAPL recovered/water recovered decreased from high of 0.01 in 2000 to 0.0004 in 2006 and 2007)

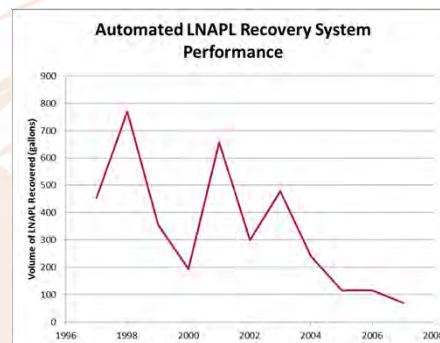
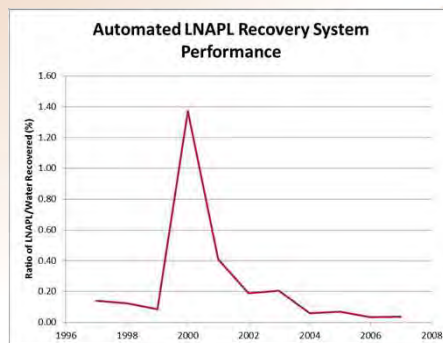


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## Annual LNAPL Recovery Performance



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## 2. Southwest Plant LNAPL Area

### D.3 LCSM - Land Use

- ❑ Residual LNAPL within the confines of former heavy industrial site with future land use restricted to non-residential

### D.4 LCSM - LNAPL Properties

- ❑ Amber colored, light, viscous, multi-component mixture of primarily petroleum based oils resembling motor oils
- ❑ LNAPL results from a waste characterization sample collected in June 2010 indicated the presence of PCBs at 17 ppm



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## 2. Southwest Plant LNAPL Area

### D.5 LCSM - LNAPL Spatial Distribution

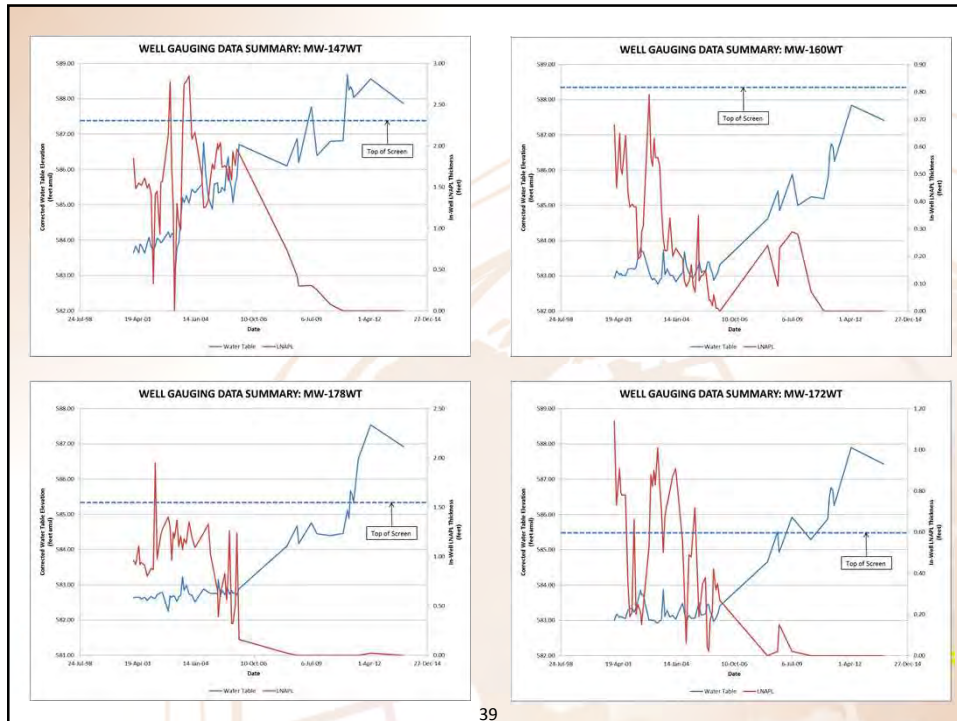
- ❑ Vertical impacts 4-14 ft bgs
- ❑ Extent of potentially mobile/recoverable LNAPL historically delineated by MWs
  - ❑ Limited measurable LNAPL detected mid-2010
  - ❑ Trace LNAPL thicknesses or no LNAPL detected prior to post-demo water table rise (submerging screens)
  - ❑ No measurable LNAPL in monitoring wells since April 2012 (including wells where screens are not submerged currently)
- ❑ Residual LNAPL impacts may extend from up-gradient property (from historical sources)



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## 2. Southwest Plant LNAPL Area

### D.6 LCSM - LNAPL Mobility and Recoverability

- ❑ Only trace amounts of LNAPL observed recently and prior to water table submerging screens
  - ❑ de minimis mobility/recoverability condition
  - ❑ Post-demolition water table rise would have significantly smeared and further immobilized/submerged the limited mobile LNAPL observed prior
- ❑ Active recovery completed until 2007 when the SMI Plant was shut down
  - ❑ Recovery efficiency diminished prior to shut down and post-demolition water table rise
- ❑ MDEQ agreed passive recovery was appropriate in October 2010



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## 2. Southwest Plant LNAPL Area

### D.7 LSCM - LNAPL Stability

- ❑ LNAPL stable based on:
  1. Time since possible release
  2. Historical LNAPL recovery performance
  3. Diminishing mobility/recoverability trend before post-demolition water table rise
  4. Significant post-demolition water table rise (further immobilization)
  5. De minimis mobility/recoverability of potential source zone(s)



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## 2. Southwest Plant LNAPL Area

### D.8 LSCM - Potential Exposures

- ❑ The results for groundwater samples collected during the RI from the Southwest Plant LNAPL Area exceed current generic State of Michigan criteria for various metals, PCBs, SVOCs, and VOCs for GSI, Non-Residential Drinking Water, and Vapor Intrusion
- ❑ Groundwater and soil data from the RI was also evaluated in the HHE and concluded that there are no completed unacceptable exposure pathways following implementation of restrictive covenant



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## 2. Southwest Plant LNAPL Area

### D.8 LCSM - Potential Exposures cont'd

- Exposures that exceed current State of Michigan Criteria will be addressed as identified below:
  - Drinking Water Pathway
    - This pathway is incomplete since the Site is serviced by municipal water supply
    - Use of groundwater as a potable source will be prohibited by Restrictive Covenant
  - Vapor Intrusion Pathway
    - This pathway is not currently complete as there are no buildings
    - Will include RRD template language for VI restriction for possible future redevelopment in Restrictive Covenant



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## 2. Southwest Plant LNAPL Area

### D.8 LCSM - Potential Exposures cont'd

- GSI Pathway
  - Any remaining LNAPL is stable and is a significant distance from the Saginaw River (~1,000 ft)
  - Sewers routed through the LNAPL area discharge to the stormwater pond which empties into the Secondary Pond, however, no LNAPL has been observed in the stormwater pond since before 2007
  - Ongoing quarterly monitoring of nine manholes in the Southwest Plant LNAPL area including the three manholes with observed LNAPL. Including inspections of the stormwater pond and the Secondary Pond for the presence/absence of LNAPL. LNAPL, if present, will be recovered. Once there are four consecutive rounds of no measurable LNAPL at a given location, monitoring of that location will cease



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## 2. Southwest Plant LNAPL Area

### D.8 LCSM - Potential Exposures cont'd

- Direct Contact
  - Not currently a relevant pathway as NAPL is located at least 4 ft bgs, however, there is a potential pathway in the future should the area be excavated for redevelopment or other purposes
  - A restrictive covenant will be placed on the Southwest Plant LNAPL Area that identifies that caution is required and proper precautions should be in place while excavating or conducting other work in the area, and that requires maintaining 2 ft of cover over the area following any work and to properly manage any impacted material encountered while performing the work



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## 2. Southwest Plant LNAPL Area

### E. LNAPL Remedial Decision Tree

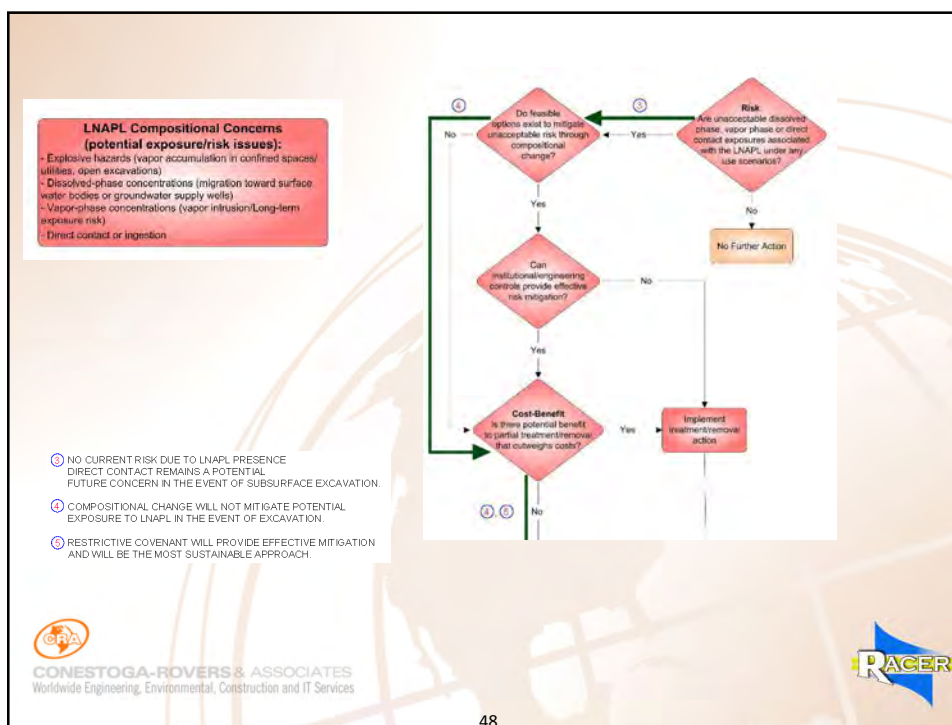
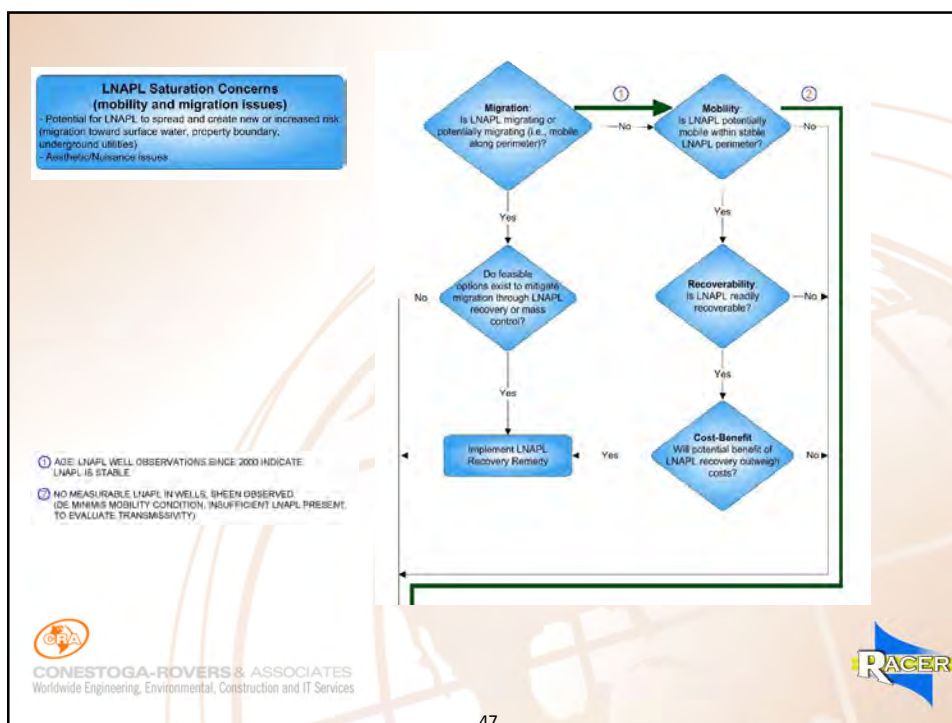
- Risk-based LNAPL management decision-making process developed in conjunction with MDEQ
  - Implemented at RACER sites across Michigan
  - Strategies based on realistic assessment of risk and potential benefit of engineered remedies
  - The process can be implemented at any point in the life of a project to determine an appropriate risk-based LNAPL management strategy (e.g., determine whether to start, stop or continue LNAPL recovery if already implemented)
- Consistent with MDEQ Petroleum NAPL Policy

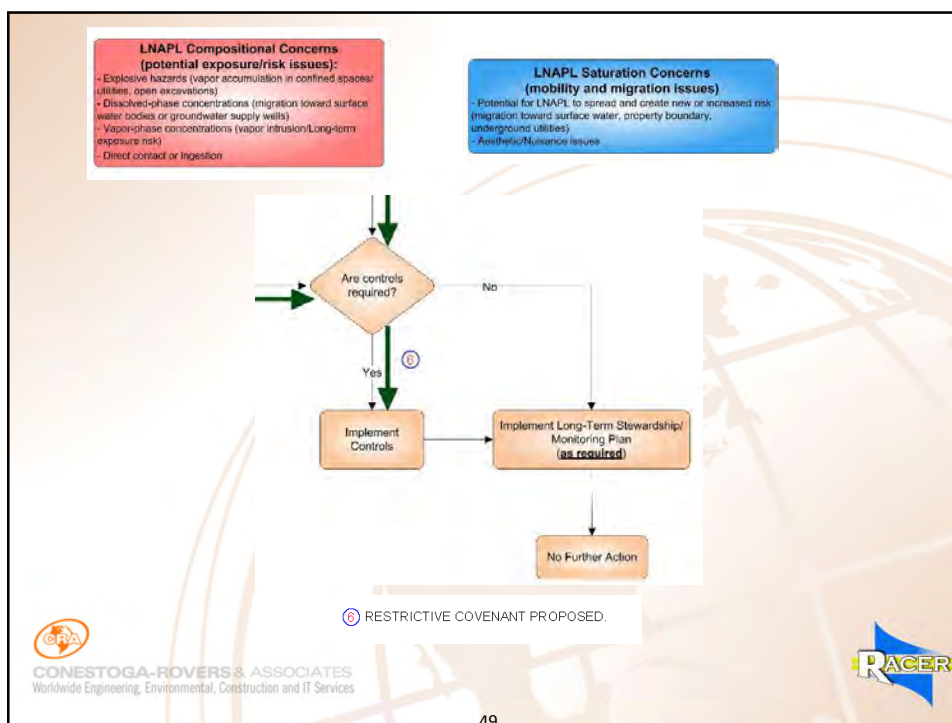


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## 2. Southwest Plant LNAPL Area

### F. Conclusions

- ❑ LNAPL is a viscous, non-volatile motor oil range fuel type
- ❑ LNAPL is effectively immobile, unrecoverable and stable/non-migrating
- ❑ LNAPL has the potential to migrate in the sewers, however, due to the current state of the water table (significantly above the sewers), it is unlikely LNAPL will migrate to the stormwater pond. In addition, LNAPL has not been observed in the stormwater pond since before 2007
- ❑ No current unacceptable exposure pathways
- ❑ Proposed Site restrictive covenant will prevent any potential future unacceptable exposure pathways



## 2. Southwest Plant LNAPL Area

### G. Recommendations

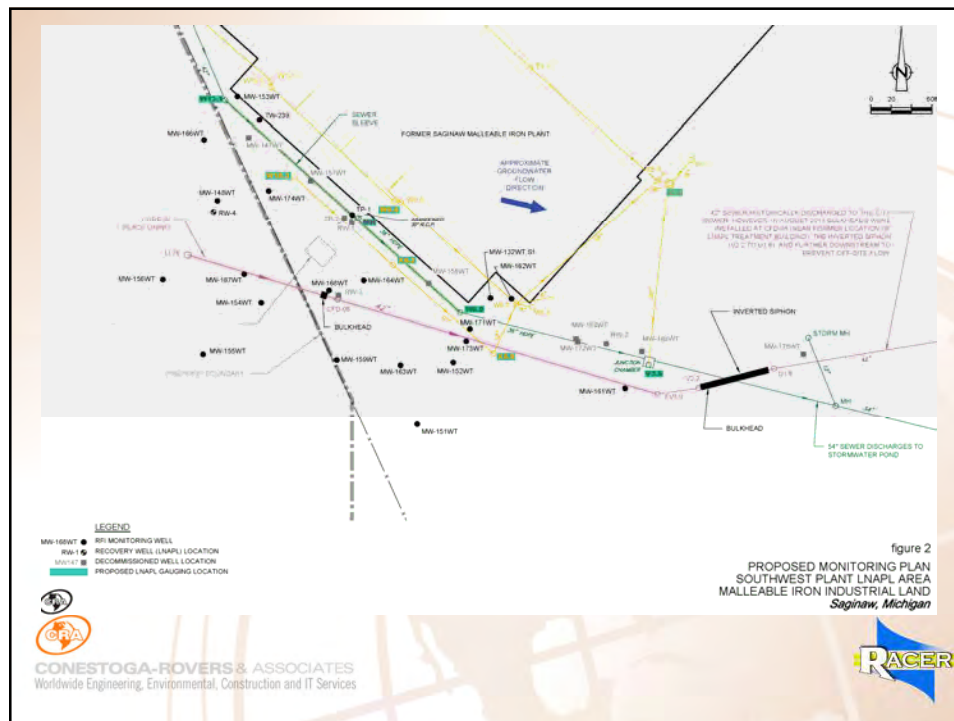
- ❑ Proposed Monitoring
  - ❑ Discontinue monitoring of remaining wells for LNAPL with water levels above the screen and abandon
  - ❑ Collect quarterly depth to LNAPL/water in nine manholes in the Southwest Plant LNAPL area (including the three manholes with LNAPL observed in June 2014)
  - ❑ Inspect the stormwater pond and the Secondary Pond for the presence/absence of LNAPL. LNAPL, if present, will be recovered.
  - ❑ **Endpoint:** Once there are four consecutive rounds of no measurable LNAPL at a given location, monitoring of that location will cease.
  - ❑ **Reporting:** Annual data summary reports



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## 2. Southwest Plant LNAPL Area

### G. Recommendations cont'd

- ❑ Implement restrictive covenant
  - ❑ Prevent direct contact exposures
  - ❑ Prevent use of groundwater as a potable source
  - ❑ Require further evaluation of vapor intrusion pathway should future development include buildings in vicinity
- ❑ **Contingency:** In the event measurable LNAPL continues to be observed in the manholes a proposed investigation will be submitted to MDEQ within sixty days of the annual report



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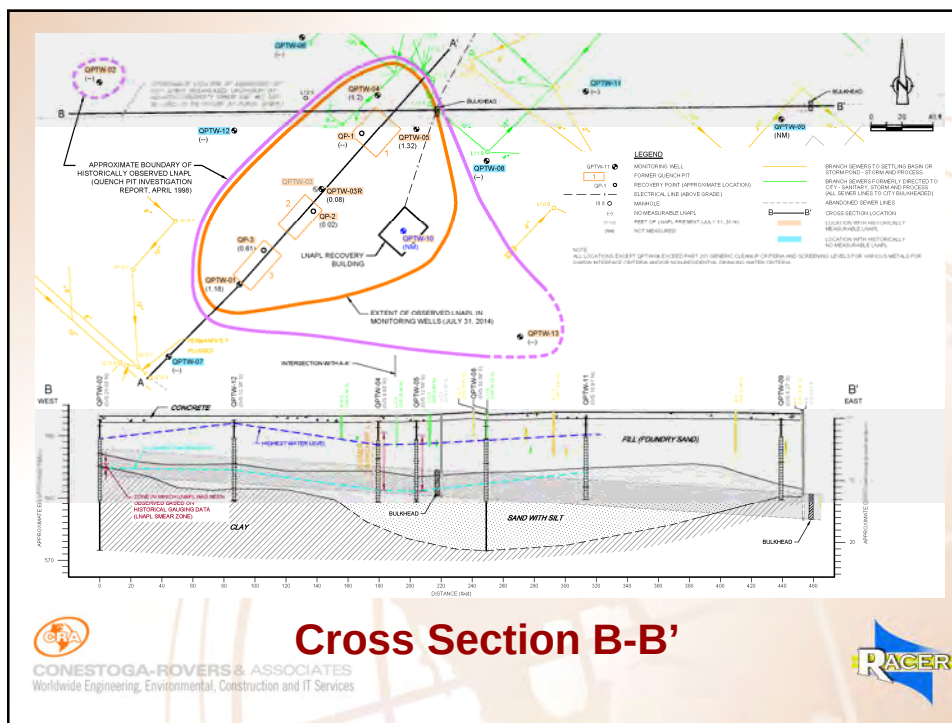
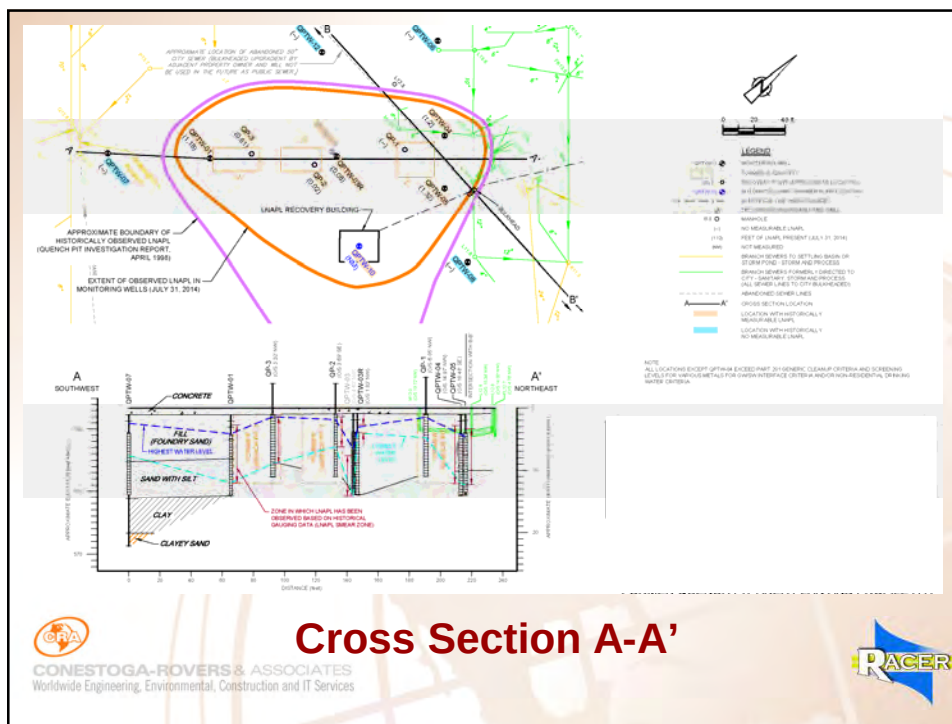
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## 3. QUENCH PIT AREA



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### 3. Quench Pit Area

#### A. Background

- ❑ The Quench Pit Area is located in the former Annealing Department (heat treatment) in the south-central portion of the former SMI Plant
- ❑ The area contained three quench pits, installed in the late 1960's which each held 25,000 gallons of quench oils used in the heat treatment process
- ❑ In 1997, the quench pits were emptied, cleaned and leaks repaired.
- ❑ In January 1998 smaller stainless steel shells were built inside the quench pits to act as primary containment while the original stainless steel structures acted as secondary containment



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### 3. Quench Pit Area

#### B. Previous Characterization

- ❑ The Plant periodically analyzed the quench oils for PCBs and detections were noted in 1977 and 1979. Since 1979, PCBs were not detected in the quench oils used at the Plant
- ❑ Quench Pit Investigation (March 1997) included:
  - ❑ 13 monitoring wells (including wells in sewer bedding)
  - ❑ groundwater and LNAPL sampling
- ❑ Concentrations of PCBs detected in the Quench Pit Area during the Investigation were:
  - ❑ Non-detect to 19 ppm in LNAPL
  - ❑ No PCBs were reported in groundwater samples



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### 3. Quench Pit Area

#### B. Previous Characterization, cont'd

- ❑ Samples of LNAPL were collected from the Quench Pit monitoring wells in March 2007
- ❑ Concentrations of PCBs detected in the samples ranged from 2.7ppm to 6.0 ppm
- ❑ During demolition, a composite LNAPL sample was collected from Quench Pit #2 and #3 in June 2010 for waste characterization and reported PCBs as non-detect
- ❑ LNAPL was characterized as being non-volatile and viscous, having similar properties to hydraulic oil



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### 3. Quench Pit Area

#### C. Previous Remedial Activities

- ❑ 1997: During a Site-wide sewer investigation LNAPL was identified in a 50-inch abandoned sewer line immediately adjacent to former Quench Pit #1
  - ❑ 4,000 gallons of LNAPL were removed
  - ❑ Two bulkheads were installed on the 50-inch abandoned sewer downgradient of the quench pits
  - ❑ A third bulkhead was previously installed upgradient from the Quench Pit Area by the adjacent facility
- ❑ 1997 to 2002: approximately 6,500 gallons of LNAPL was manually recovered (bailed)



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### 3. Quench Pit Area

#### C. Previous Remedial Activities, cont'd

- ❑ February 2002: automated LNAPL recovery system (skimmer pump) was installed in QPTW-03
- ❑ 2002 to 2007: O&M of LNAPL recovery system
  - ❑ ~2,400 gallons of LNAPL recovered from QPTW-03
  - ❑ Periodic monitoring of LNAPL thicknesses and manual LNAPL removal (bailing) in area wells was completed during the operation of the system
- ❑ December 2007: Operation of the LNAPL recovery system ceased as a result of closure activities
- ❑ December 2007 to present: Ongoing periodic monitoring and manual recovery of LNAPL from wells
- ❑ June 2010: QPTW-03 was decommissioned due to damages sustained during plant demolition



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### 3. Quench Pit Area

#### C. Previous Remedial Activities, cont'd

- ❑ 2007 to 2010: Demolition of the SMI Plant
  - ❑ Quench pits were emptied of product when the plant was shut down in 2007
  - ❑ Bulkheads were installed (green) to eliminate all discharges from the Site to the City (pink)
  - ❑ Summer 2010: Demolition of quench pits
    - ❑ Stainless steel shells were removed and the remaining concrete structure sidewalls and floors were punched through to ensure the pits do not act as a "bathtub"
    - ❑ 55,000 gallons of LNAPL were removed from the quench pit excavations and disposed of in accordance with applicable laws
    - ❑ Three LNAPL recovery wells were installed, one in each quench pit excavation and were added to the monitoring program



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### 3. Quench Pit Area

#### C. Previous Remedial Activities, cont'd

- ❑ October 2011: LNAPL building from the Southwest Plant LNAPL Area was moved to the former Quench Pit Area and the LNAPL skimmer pump was installed in QPTW-10 (well reporting the greatest thickness of LNAPL)
- ❑ January 2012: Skimmer pump in QPTW-10 was commissioned
  - ❑ To date 60 gallons of LNAPL has been recovered
- ❑ October 2013: replacement well was installed within 3-feet of the abandoned QPTW-03, to confirm presence/absence of LNAPL



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### 3. Quench Pit Area

#### C. Previous Remedial Activities, cont'd

- ❑ QPTW-03R was added to the monitoring program. The most recent reading (October 2014) reported no measurable LNAPL. Since the installation of QPTW-03R, the greatest thickness of LNAPL measured was 0.37 feet in April 2014
- ❑ To date no LNAPL has been observed at the ground surface



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### 3. Quench Pit Area

#### D.1 LCSM - Release History

- ❑ Source of LNAPL is the three former quench pits
  - ❑ Former SMI Plant closed in 2007 and significant LNAPL (55,000 gallons) removed during the summer of 2010

#### D.2 LCSM - Remedial History

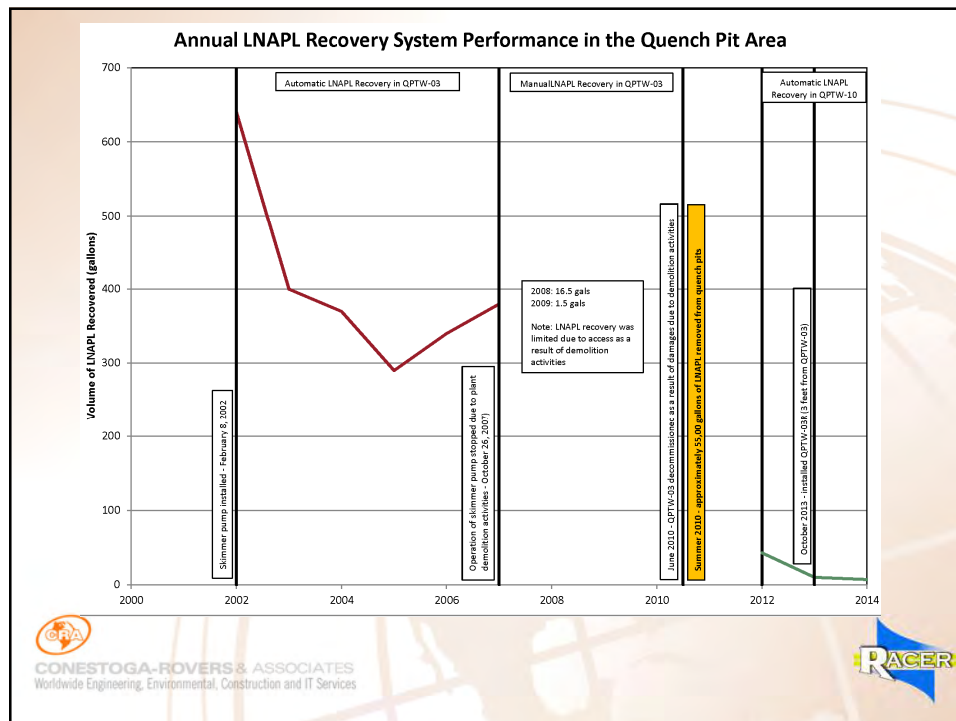
- ❑ Recovery of LNAPL has been performed by various methods since 1997
  - ❑ 55,000 gallons of oil were removed from the quench pit excavations during their decommissioning
  - ❑ Various efforts involving manual bailing and skimming pumps have recovered an additional 60 gallons (since 2012)



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### 3. Quench Pit Area

#### D.3 LCSM - Land Use

- Residual LNAPL within the confines of former heavy industrial site with future land use restricted to non-residential

#### D.4 LCSM - LNAPL Properties

- Viscous, non-volatile hydraulic oil range fuel type
- LNAPL results have indicated the presence of PCBs, however, most recent sampling in 2010 reported ND

#### D.5 LCSM - LNAPL Spatial Distribution

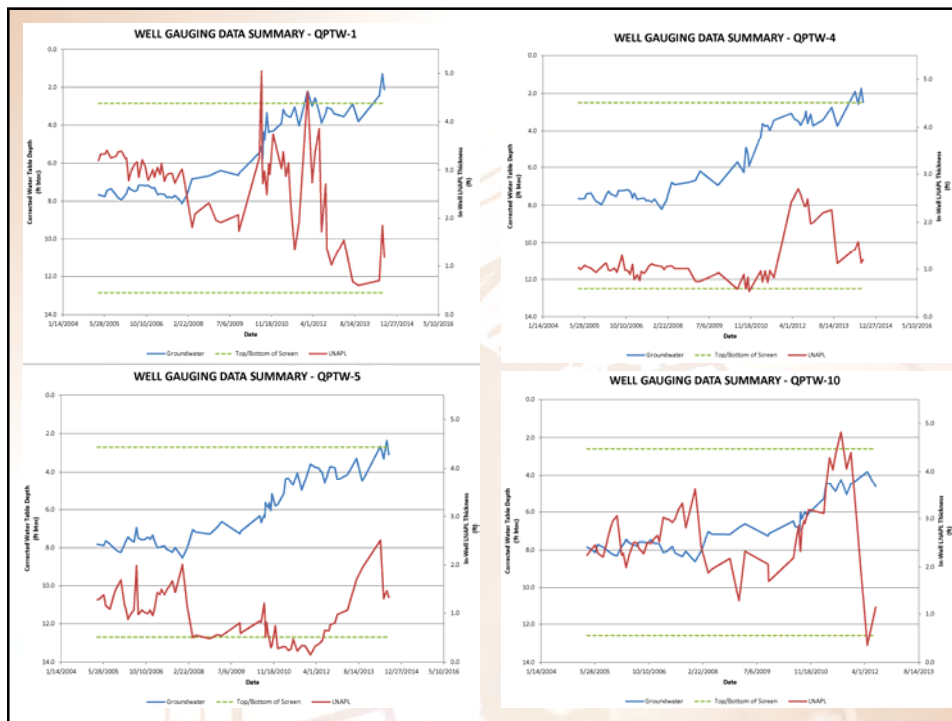
- Vertical impacts 1.5-13.5 ft bgs
- Extent of potentially mobile/recoverable LNAPL delineated by MWs (approximately 200 ft by 200 ft in size)



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### 3. Quench Pit Area

#### D.6 LCSM - LNAPL Mobility and Recoverability

- ❑ Fraction of LNAPL that remains potentially mobile is likely negligible given:
  - ❑ The age of the LNAPL (>4 years since source of LNAPL removed – demolition of quench pits)
  - ❑ Historical recovery efforts that were continued until performance was observed to diminish to very low levels
  - ❑ Post-demolition water table rise would have significantly smeared and further immobilized/submerged the limited mobile LNAPL observed prior
- ❑ LNAPL transmissivity results are all within MDEQ de minimis range, with the possible exception of QPTW-10
- ❑ Therefore, LNAPL is predominantly present at residual saturation (i.e., effectively immobile, unrecoverable)



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### 3. Quench Pit Area

#### D.7 LSCM - LNAPL Stability

- ❑ LNAPL stable based on:
  1. The footprint of where LNAPL is observed in wells has decreased over time
  2. Time since possible release
  3. Well gauging, remedial history, and LNAPL transmissivity estimates confirm that the potential mobility of the LNAPL is very low
  4. Diminishing mobility/recoverability following demolition of quench pits
  5. Post-demolition water table rise (further immobilization)



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### 3. Quench Pit Area

#### D.8 LSCM - Potential Exposures

- ❑ The results of available groundwater samples collected in the Quench Pit Area exceed current generic State of Michigan criteria for various metals for GSI and Non-Residential Drinking Water
- ❑ Groundwater and soil data from the RI was also evaluated in the HHE and concluded that there are no completed unacceptable exposure pathways following implementation of restrictive covenant



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### 3. Quench Pit Area

#### D.8 LCSM - Potential Exposures cont'd

- ❑ Exposures that exceed current State of Michigan Criteria will be addressed as identified below:
  - ❑ Drinking Water Pathway
    - This pathway is incomplete since the Site is serviced by municipal water supply
    - Use of groundwater as a potable source will be prohibited by the Restrictive Covenant



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### 3. Quench Pit Area

#### D.8 LCSM - Potential Exposures cont'd

- GSI Pathway
  - Any remaining LNAPL is stable and is a significant distance from the Saginaw River (~1,500 ft)
  - Some sewers in the vicinity of the LNAPL area discharge to the former stormwater pond which empties into the Secondary Pond, however, no LNAPL has been observed in the stormwater pond since before 2007
  - Quarterly monitoring of select manholes is recommended to confirm presence/absence of LNAPL. LNAPL, if present, will be recovered. Once there are four consecutive rounds of no measurable LNAPL at a given location, monitoring at that location will cease



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### 3. Quench Pit Area

#### D.8 LCSM - Potential Exposures cont'd

- Direct Contact
  - Not currently a relevant pathway as NAPL is located below a concrete slab, however, there is a potential pathway in the future should the area be excavated for redevelopment or other purposes
  - A restrictive covenant will be placed on the Quench Area that identifies that caution is required and proper precautions should be in place while excavating or conducting other work in the area, and that requires maintaining a minimum 6" concrete cover over the area following any work and to properly manage any impacted material encountered while performing the work



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### 3. Quench Pit Area

#### E. LNAPL Remedial Decision Tree

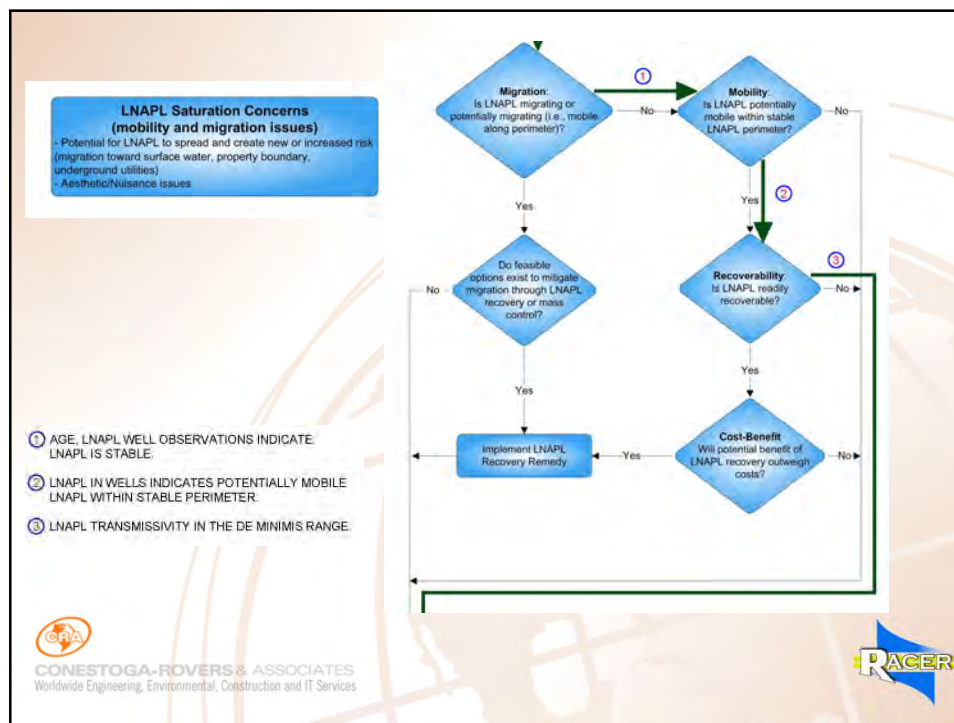
- ❑ Risk-based LNAPL management decision-making process developed in conjunction with MDEQ
  - ❑ Implemented at RACER sites across Michigan
  - ❑ Strategies based on realistic assessment of risk and potential benefit of engineered remedies
  - ❑ The process can be implemented at any point in the life of a project to determine an appropriate risk-based LNAPL management strategy (e.g., determine whether to start, stop or continue LNAPL recovery if already implemented)
- ❑ Consistent with MDEQ Petroleum NAPL Policy

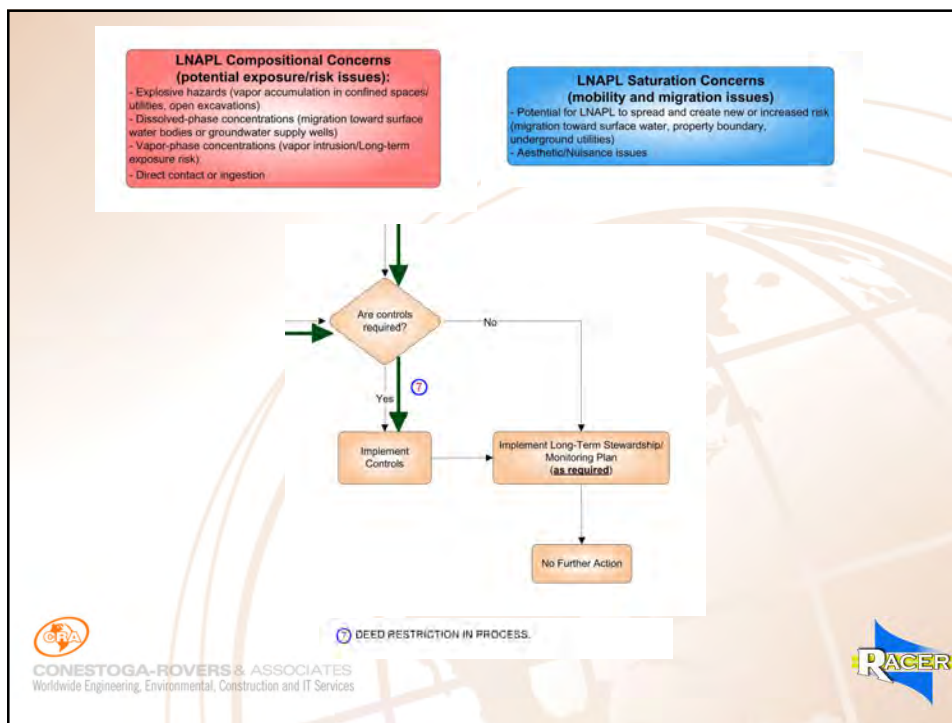
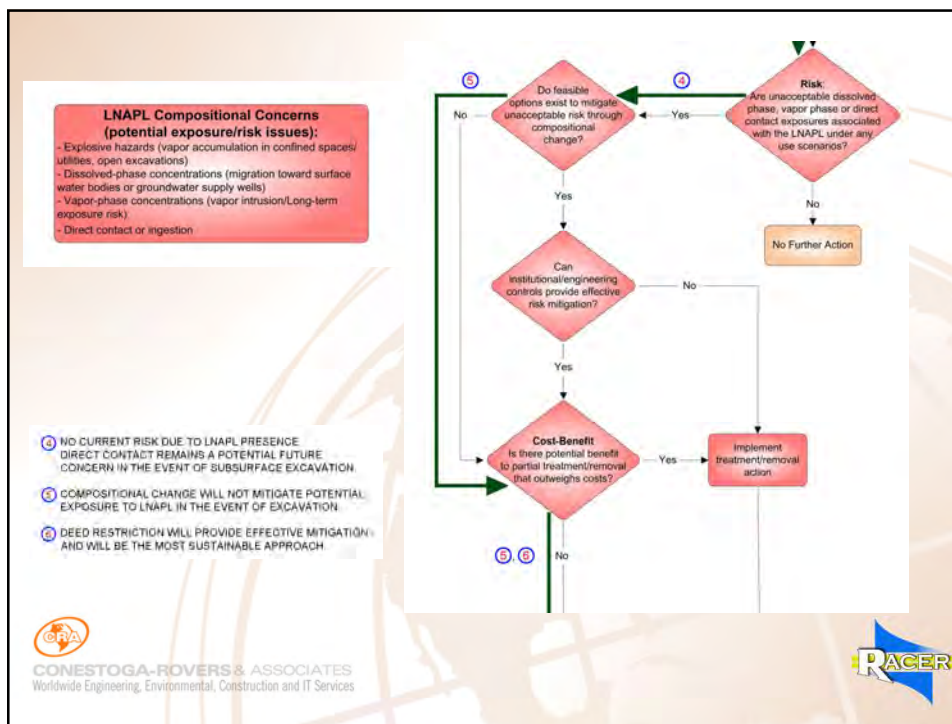


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### 3. Quench Pit Area

#### F. Conclusions

- ❑ LNAPL is a viscous, non-volatile hydraulic oil range fuel type
- ❑ LNAPL is effectively immobile, unrecoverable and stable/non-migrating overall in the bulk of the soil matrix
  - ❑ LNAPL transmissivity estimates are predominantly within MDEQ de minimis range
- ❑ LNAPL has the potential to migrate in the sewers, however, due to the current state of the water table (above the sewers), it is unlikely LNAPL will migrate to the stormwater pond. In addition, LNAPL has not been observed in the stormwater pond since before 2007
- ❑ No current unacceptable completed exposure pathways associated with the LNAPL
- ❑ Proposed Site restrictive covenant will prevent any potential future unacceptable completed exposure pathways



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### 3. Quench Pit Area

#### G. Recommendations

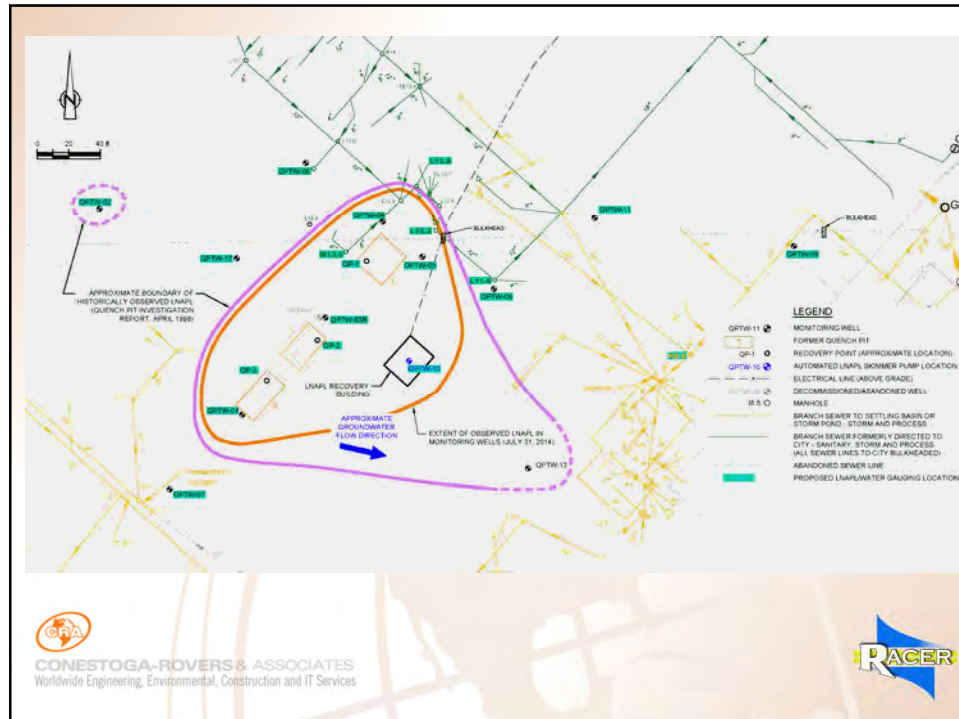
- ❑ **Proposed Monitoring**
  - ❑ Monitor downgradient sewer bedding monitoring wells (QPTW-09 and QPTW-11) quarterly to confirm LNAPL is not migrating along sewer bedding
  - ❑ Monitor all other Quench Pit monitoring wells (QPTW-01 to QPTW-13 and QP-1, QP-2, and QP-3) quarterly
  - ❑ Monitor nearby active sewers at MH K8.9 that ultimately discharge to the storm sewer then to the stormwater pond quarterly to confirm they are not impacted by LNAPL
  - ❑ Monitor nearby sewers that historically discharged to the City at MH 11.8, MH 13.0, MH L12.8, and MH L12.3 but have since been bulkheaded, quarterly to confirm they are not impacted by LNAPL
  - ❑ **Endpoint:** Monitoring at a given location will cease after 4 consecutive rounds of no measurable LNAPL or when all Quench Pit monitoring wells show transmissivity levels less than 0.5 ft<sup>2</sup>/day
- ❑ **Reporting:** Annual data summary reports



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### 3. Quench Pit Area

#### G. Recommendations cont'd

- ❑ Implement restrictive covenant
  - ❑ Prevent direct contact exposures
  - ❑ Prevent use of Site groundwater as a potable source
  - ❑ Future land use restricted to non-residential
- ❑ Continue operation of skimmer pump in QPTW-10 until transmissivity levels are less than 0.5 ft<sup>2</sup>/day
- ❑ Abandon monitoring wells following 4 consecutive rounds of no measurable LNAPL or when all Quench Pit monitoring wells show transmissivity levels less than 0.5 ft<sup>2</sup>/day, with MDEQ concurrence
- ❑ **Contingency:** In the event measurable LNAPL is observed in the manholes or monitoring wells a proposed investigation will be submitted to MDEQ within sixty days of the annual report

## 4. Summary of Review

### Southwest Plant LNAPL Area

- ❑ **Conclusions**
  - ❑ LNAPL is effectively immobile, unrecoverable and stable/non-migrating overall in the bulk of the soil matrix
  - ❑ LNAPL has the potential to migrate in the sewers, however, LNAPL has not been observed in the stormwater pond since before 2007
  - ❑ No current unacceptable exposure pathways associated with the LNAPL
  - ❑ Proposed Site restrictive covenant will prevent any potential future unacceptable exposures
- ❑ **Recommendations**
  - ❑ Implement restrictive covenant
  - ❑ Monitor LNAPL levels in nearby manholes, stormwater pond, and secondary pond to confirm LNAPL is not migrating



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## 4. Summary of Review

### Quench Pit Area

- ❑ **Conclusions**
  - ❑ LNAPL is effectively immobile, unrecoverable and stable/non-migrating overall in the bulk of the soil matrix
  - ❑ LNAPL has the potential to migrate in the sewers, however, LNAPL has not been observed in the stormwater pond since before 2007
  - ❑ No current unacceptable exposure pathways associated with the LNAPL in place
  - ❑ Proposed Site restrictive covenant will prevent any potential future unacceptable exposures
- ❑ **Recommendations**
  - ❑ Implement restrictive covenant
  - ❑ Monitor LNAPL levels in nearby manholes and in Quench Pit monitoring wells to confirm LNAPL is not migrating or accumulating
  - ❑ Continue operating skimmer pump in QPTW-10 until transmissivity levels are less than 0.5 ft<sup>2</sup>/day



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## 5. Discussion



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Attachment B  
Proposed Monitoring Plan for  
Southwest Plant LNAPL Area – September 2014



**CONESTOGA-ROVERS  
& ASSOCIATES**

651 Colby Drive, Waterloo, Ontario, N2V 1C2  
Telephone: (519) 884-0510 Fax: (519) 884-0525  
[www.CRAworld.com](http://www.CRAworld.com)

~~May 27~~September 8, 2014

Reference No. 007878

Ms. Susan Kaelber-Matlock  
Michigan Department of Environmental Quality  
Remediation and Redevelopment Division  
Saginaw Bay District Office  
401 Ketchum Street, Suite B  
Bay City, Michigan 48708

***Transmitted via E-mail***

Dear Ms. Kaelber-Matlock:

Re: Proposed Monitoring Plan  
Southwest Plant LNAPL Area  
RACER Saginaw Malleable Industrial Land, Saginaw, MI

As discussed during our meeting on May 6, 2014, Conestoga Rovers & Associates (CRA) on behalf of Revitalizing Auto Communities Environmental Response (RACER) Trust is submitting the presentation provided during the meeting (Attachment A), and this proposed monitoring plan for the Southwest Plant Light Non Aqueous Phase Liquid (LNAPL) LNAPL area of the Former Saginaw Malleable Iron Plant (Site) in Saginaw, Michigan.

## **1.0 Background**

LNAPL was first observed in monitoring wells in the Southwest Plant LNAPL area which were installed as part of the Remedial Investigation in 1995. Subsequent investigations were completed to define the extent of LNAPL impacts and investigate potential preferential pathways including the bedding of two large storm sewers that pass through the Southwest Plant LNAPL area. One of the two large storm sewers discharged to the City of Saginaw (City) sewer further downstream and bulkheads were placed on the sewer preventing further discharge of water from the Site into the City sewer in August 2011. The other sewer continues to discharge to the on-Site stormwater pond. Figure 1 presents an overall view of the Site and associated Site sewers.

Various remedial activities were completed to remove LNAPL and prevent infiltration of LNAPL into storm sewers including: sewer repairs (re-installation of sewers, sewer sleeve, cure-in-place lining), removal of approximately 5,000 gallons of LNAPL during a sewer repair, installation and operation of automated/active LNAPL recovery system for 10 years, and passive LNAPL recovery.



September 8~~May 27~~, 2014

Reference No. 007878

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The automated LNAPL recovery system operated from 1997 until 2007 removing approximately 3,700 gallons of LNAPL, when it was turned off as a result of decommissioning activities at the plant. Prior to turning off the automated recovery system, the LNAPL recovery had decreased significantly and trace LNAPL thicknesses or no LNAPL were detected in wells prior to demolition of the plant structure in 2009. As a result of decommissioning activities the water table rebounded at the Site, further smearing and immobilizing the already relatively immobile/unrecoverable LNAPL. There has been no measurable LNAPL in monitoring wells since April 2012 (including wells where screens are not submerged). The residual LNAPL is effectively immobile, unrecoverable, and stable/non-migrating overall in the bulk of the soil matrix based on multiple lines of evidence including well observations, past LNAPL recovery performance, and hydraulic conditions. LNAPL has the potential to infiltrate into the sewers; however, the elevated water table post-demolition (above the sewers) is serving as a hydraulic barrier to LNAPL infiltration into the storm sewers and ultimately to the stormwater pond. LNAPL has not been observed in the stormwater pond since before 2007.

The following recommendations were made during the May 6, 2014 meeting to move toward closure for the Southwest Plant LNAPL area:

- Implement restrictive covenant to prevent direct contact exposures, prevent use of Site groundwater as a potable source, and to require further evaluation of vapor intrusion pathway should future development include buildings in the vicinity
- Further evaluate bulkheading sewers between Southwest Plant LNAPL area and the stormwater pond as a permanent control against the potential infiltration of LNAPL into and through the sewers to the stormwater pond
- Perform additional monitoring. The proposed monitoring program is further detailed in the remainder of the letter

See Attachment A for a copy of the presentation slides from the May 6, 2014 meeting which includes more detailed background information for the Site and the Southwest Plant LNAPL Area.

## **2.0 Proposed Monitoring Plan**

CRA recommends monitoring the following locations for the presence/absence of LNAPL on a quarterly basis. The proposed monitoring will identify whether LNAPL persists at the manhole





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September 8~~May 27~~, 2014

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on the abandoned 30-inch sewer resulting in the potential to migrate through the sewers should the water table drop significantly.

Manhole/other locations to be monitored:

- W6.8
- MH on abandoned 30-inch sewer line
- X8.2
- V3.6
- X5.9
- W13.1
- W10.3
- W9.6
- S5.6
- Stormwater pond/secondary pond
- Ground surface in Southwest Plant LNAPL area

Depth to water and LNAPL will be collected at all manhole locations. LNAPL, if present, will be recovered manually using a bailer or by installing LNAPL absorbent booms. LNAPL and used absorbent booms will be manually, containerized, characterized, and disposed of off-Site at an approved facility. The monitoring will confirm the post-demolition seasonal range of water table fluctuation, which will indicate whether the water table will remain above the top of the sewers on a year-round basis.

The stormwater pond/secondary pond and the ground surface in Southwest Plant LNAPL area will also be inspected quarterly for the presence of visible LNAPL and if there is a significant precipitation event that results in a near-flood or flood condition.

Once there are four consecutive rounds of no measurable LNAPL at a given location, monitoring of that location will cease.



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Remaining monitoring wells were not selected for monitoring as in most cases the water level is above the screen. Remaining monitoring wells will be abandoned when MDEQ has accepted that no further monitoring is required for this area.

Figure 2 presents the proposed monitoring locations in the Southwest Plant LNAPL Area. The cost to complete the proposed monitoring can be completed within the existing, approved 2014 budget.

### **3.0 Additional Activities**

If LNAPL continues to collect in the manhole on the abandoned 30-inch sewer line, RACER may also evaluate bulkheading the sewer to the stormwater pond to eliminate the potential pathway for LNAPL to migrate to the stormwater pond. The evaluation will identify an appropriate location for the bulkhead and also evaluate whether bulkheading the sewer may cause LNAPL to come to the ground surface. The evaluation will be submitted to the MDEQ for review and approval.

### **4.0 Reporting**

Annual data summary reports will be submitted to the MDEQ as part of the annual report currently submitted for the Site by December 15<sup>th</sup> and will summarize the LNAPL gauging data, inspection observations, the amount of product recovered, ~~and~~ the amount of product disposed of, if any, and recommendations for completing additional investigation, if necessary.

### **5.0 Contingency**

LNAPL gauging information will be reviewed and submitted to MDEQ annually and if in the event measurable LNAPL continues to be observed in the manholes ~~after eight routine quarterly monitoring events~~, a proposed investigation plan will be submitted to MDEQ within sixty (60) days of the ~~eight monitoring event~~annual report.



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In the event measurable LNAPL is identified at the ground surface or in the storm pond/secondary pond;

1. Spill Response materials, including oil-absorbent booms, will be maintained on-Site and utilized as an immediate action to the extent practical.
2. MDEQ will be notified via email within 24 hours.
3. A formal notification will be provided to MDEQ within 2 weeks. The formal notification will identify the location where LNAPL was identified, initial response activities, and any proposed measures to be implemented to mitigate the situation. The formal notification will also include a schedule for implementation, if appropriate.
4. An evaluation will be prepared and submitted to MDEQ within 60 days of the initial date LNAPL was identified at the ground surface or in the storm/secondary pond. The evaluation will identify the need and scope for additional investigation, and identify and evaluate ways to prevent further migration of LNAPL, and prevent future occurrences with a focus on bulkheading (other methods will be considered that may be technically effective). The evaluation will also include a schedule for implementation.

Please contact me if you would like to discuss this matter further.

Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

Michael R. Tomka, P.E.

JEP/kf/3

Encl. Figure 1 – Site Plan  
Figure 2 – Proposed Monitoring Locations  
Attachment A – May 6, 2014 Presentation – Southwest Plant LNAPL Area Status

cc: Rhonda Klann, MDEQ (via e-mail)



**CONESTOGA-ROVERS  
& ASSOCIATES**

| September 8~~May 27~~, 2014

Reference No. 007878

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Patricia Williams, MDEQ (via e-mail)  
Ann Persons, MDEQ (via e-mail)  
David Favero, RACER (via e-mail)  
Lisa Coffey, Arcadis (via e-mail)  
Matt Rousseau/John-eric Pardys, CRA (via e-mail)

# Attachment C

## Inspection Checklists

# SAGINAW MALLEABLE INDUSTRIAL LAND - SITE INSPECTION

On-Site Personnel: Steve Hoevermeyer

Completed Date: 12/4/15

Completed By: SH

## 1. INSPECTIONS COMPLETED

- ☒ Southwest Plant LNAPL Area  
☒ Quench Pit LNAPL Area

Weather cloudy; wind ~ 5 mph  
 Temperature high 30's

## 2. SOUTHWEST PLANT LNAPL AREA

- ☒ Is there LNAPL present at the ground surface in the Southwest Plant LNAPL area?  
☒ Is there LNAPL present at the stormwater pond?  
☒ Is there LNAPL present at the secondary pond?

| LNAPL Gauging            | LNAPL Reading<br>(ft bgs) | Water Reading<br>(ft bgs) | Amount of Product<br>(feet) | Comments (amount bailed, date absorber<br>sock installed, % sock saturated) |
|--------------------------|---------------------------|---------------------------|-----------------------------|-----------------------------------------------------------------------------|
| <u>Manhole</u>           |                           |                           |                             |                                                                             |
| W6.8                     |                           | 5.26                      | slight sheen                |                                                                             |
| V3.6                     |                           | 5.34                      | slight sheen                |                                                                             |
| MH on abandoned 30" line |                           | 4.77                      | sheen                       |                                                                             |
| X8.2                     |                           | 4.26                      |                             |                                                                             |
| X5.9                     |                           | 4.88                      | very slight sheen           |                                                                             |
| W13.1                    |                           | 5.23                      | very slight sheen           |                                                                             |
| X10.3                    |                           | 3.13                      |                             |                                                                             |
| W9.6                     |                           | 5.53                      |                             |                                                                             |
| S5.6                     |                           | 6.57                      |                             |                                                                             |
| FV3.0                    | 4.48                      | 4.49                      | oily scum - boom installed  |                                                                             |

## 3. QUENCH PIT AREA

- ☒ Is there LNAPL present at the ground surface in the Quench Pit area?  
☒ Is the LNAPL building secure?  
☒ Is skimmer pump running?

| LNAPL Gauging             | LNAPL Reading<br>(ft bgs) | Water Reading<br>(ft bgs)             | Amount of Product<br>(feet) | Comments<br>(amount bailed, absorbent sock installed) |
|---------------------------|---------------------------|---------------------------------------|-----------------------------|-------------------------------------------------------|
| <u>Monitoring Well</u>    |                           |                                       |                             |                                                       |
| QP1                       |                           | 8.25                                  |                             |                                                       |
| QP2                       | 6.88                      | 7.35                                  | 0.47                        | bailed 1/8 gal                                        |
| QP3                       | 6.39                      | 6.40                                  | 0.01                        |                                                       |
| QPTW1                     | 3.48                      | 4.70                                  | 1.22                        | bailed 1/4 gal                                        |
| QPTW2                     |                           | 3.85                                  |                             |                                                       |
| QPTW3R                    |                           | 4.14                                  |                             | drops of LNAPL                                        |
| QPTW4                     | 3.51                      | 5.56                                  | 2.05                        | bailed 1/3 gal                                        |
| QPTW5                     | 4.10                      | 6.38                                  | 2.28                        | bailed 1/3 gal                                        |
| QPTW7                     |                           | 3.78                                  |                             |                                                       |
| QPTW10                    |                           | pump - removed ~ 1.5 gals since 11/23 |                             |                                                       |
| QPTW12                    |                           | 3.84                                  |                             |                                                       |
| QPTW13                    | 4.55                      |                                       |                             | thick LNAPL - unable to<br>get H <sub>2</sub> O level |
| Amount of Product in Tote | 75                        |                                       |                             |                                                       |

### Notes

M13.0 - dry L12.4 - 4.67 W12.4 - dry  
 L11.8 - 4.46 W6.0 - 4.95 very slight sheen



**CRA****CONESTOGA-ROVERS & ASSOCIATES**PROJECT No.: 7878PROJECT NAME: SMTDATE: 12/4/15

DESIGNED BY: \_\_\_\_\_

CHECKED BY: \_\_\_\_\_

PAGE 1 OF 1MWH<sub>2</sub>O lwd (ft)

107WT

10.01

108WT

dry

110WTR

12.22

149WT

12.20

B-3R

8.99

1

B-5R

7.88

103WT

14.57

105WT

8.09

131WT

6.11

134WT

7.50

137WT

5.32

138WT

3.68

140WT

11.58

143WT

21.73

river gauge 1

4.40



On-Site Personnel: Steve HoevemeyerCompleted Date: 3/15/16Completed By: SH1. INSPECTIONS COMPLETED

- ☒ Southwest Plant LNAPL Area  
☒ Quench Pit LNAPL Area

Weather mist, overcast  
 Temperature low 40s

2. SOUTHWEST PLANT LNAPL AREA

- ☒ Is there LNAPL present at the ground surface in the Southwest Plant LNAPL area?  
☒ Is there LNAPL present at the stormwater pond?  
☒ Is there LNAPL present at the secondary pond?

| <input checked="" type="checkbox"/> LNAPL Gauging | LNAPL Reading | Water Reading | Amount of Product | Comments (amount bailed, date absorber sock installed, % sock saturated) |
|---------------------------------------------------|---------------|---------------|-------------------|--------------------------------------------------------------------------|
| Manhole                                           | (ft bgs)      | (ft bgs)      | (feet)            |                                                                          |
| W6.8                                              | —             | 4.14          | —                 | slight sheen                                                             |
| V3.6                                              | —             | 4.27          | —                 | very slight sheen                                                        |
| MH on abandoned 30" line                          | —             | 3.49          | —                 | sheen                                                                    |
| X8.2                                              | —             | 4.06          | —                 |                                                                          |
| X5.9                                              | —             | 3.73          | —                 |                                                                          |
| W13.1                                             | —             | 4.09          | —                 |                                                                          |
| X10.3                                             | —             | 3.11          | —                 |                                                                          |
| W9.6                                              | —             | 4.43          | —                 |                                                                          |
| S5.6                                              | —             | 5.44          | —                 |                                                                          |
| FV3.0                                             | —             | 2.89          | —                 | boom installed - very little seen                                        |

3. QUENCH PIT AREA

- ☒ Is there LNAPL present at the ground surface in the Quench Pit area?  
☒ Is the LNAPL building secure?  
☒ Is skimmer pump running?

| <input checked="" type="checkbox"/> LNAPL Gauging | LNAPL Reading | Water Reading | Amount of Product | Comments                                  |
|---------------------------------------------------|---------------|---------------|-------------------|-------------------------------------------|
| Monitoring Well                                   | (ft bgs)      | (ft bgs)      | (feet)            | (amount bailed, absorbent sock installed) |
| QP1                                               | —             | 6.88          | —                 |                                           |
| QP2                                               | 5.51          | 5.77          | —                 |                                           |
| QP3                                               | 5.39          | 5.40          | —                 |                                           |
| QPTW1                                             | 1.94          | 5.13          | —                 |                                           |
| QPTW2                                             | —             | 1.98          | —                 |                                           |
| QPTW3R                                            | 2.39          | 2.46          | —                 |                                           |
| QPTW4                                             | 1.76          | 3.68          | —                 |                                           |
| QPTW5                                             | 2.49          | 4.86          | —                 |                                           |
| QPTW7                                             | —             | 2.92          | —                 |                                           |
| QPTW10                                            | 2.77          | 3.37          | 0.60              |                                           |
| QPTW12                                            | —             | 2.58          | —                 |                                           |
| QPTW13                                            | —             | 3.11          | —                 |                                           |

Amount of Product in Tote 80 galsNotesW6.0 3.80Install skimmer!



# SAGINAW MALLEABLE INDUSTRIAL LAND - SITE INSPECTION

On-Site Personnel: Steve Hoevemeyer

Completed Date: 6/17/16

Completed By: SH

## 1. INSPECTIONS COMPLETED

- ☒ Southwest Plant LNAPL Area  
☒ Quench Pit LNAPL Area

Weather sun, wind = 5 mph

Temperature low 70s

## 2. SOUTHWEST PLANT LNAPL AREA

☒ Is there LNAPL present at the ground surface in the Southwest Plant LNAPL area?

☒ Is there LNAPL present at the stormwater pond?

☒ Is there LNAPL present at the secondary pond?

| LNAPL Gauging            | LNAPL Reading<br>(ft bgs) | Water Reading<br>(ft bgs) | Amount of Product<br>(feet) | Comments (amount bailed, date absorber<br>sock installed, % sock saturated) |
|--------------------------|---------------------------|---------------------------|-----------------------------|-----------------------------------------------------------------------------|
| <u>Manhole</u>           |                           |                           |                             |                                                                             |
| W6.8                     | —                         | 3.63                      |                             | slight sheen                                                                |
| V3.6                     | —                         | 3.77                      |                             | very slight sheen                                                           |
| MH on abandoned 30" line | —                         | 2.96                      |                             | slight sheen                                                                |
| X8.2                     | —                         | 2.90 <del>shy</del> 3.55  |                             |                                                                             |
| X5.9                     | —                         | 3.24                      |                             |                                                                             |
| W13.1                    | —                         | 3.60                      |                             | very slight sheen                                                           |
| X10.3                    | —                         | 3.09                      |                             |                                                                             |
| W9.6                     | —                         | 3.90                      |                             |                                                                             |
| SS.6                     | —                         | 4.92                      |                             |                                                                             |
| FV3.0                    | —                         | 2.66                      |                             | very little scum, leave boom in                                             |

## 3. QUENCH PIT AREA

☒ Is there LNAPL present at the ground surface in the Quench Pit area?

☒ Is the LNAPL building secure?

☒ Is skimmer pump running?

| LNAPL Gauging          | LNAPL Reading<br>(ft bgs) | Water Reading<br>(ft bgs) | Amount of Product<br>(feet) | Comments<br>(amount bailed, absorbent sock installed) |
|------------------------|---------------------------|---------------------------|-----------------------------|-------------------------------------------------------|
| <u>Monitoring Well</u> |                           |                           |                             |                                                       |
| QP1                    |                           | 6.12                      |                             |                                                       |
| QP2                    | 5.22                      | 5.53                      | 0.31                        |                                                       |
| QP3                    | 5.11                      | 5.13                      | 0.02                        |                                                       |
| QPTW1                  | 1.17                      | 2.23                      | 1.06                        | 1/5 gal                                               |
| QPTW2                  |                           | 1.66                      |                             |                                                       |
| QPTW3R                 | 1.77                      | 2.30                      | 0.53                        | 1/10 gal                                              |
| QPTW4                  | 2.16                      | 2.27                      | 0.11                        |                                                       |
| QPTW5                  | 1.99                      | 4.14                      | 2.15                        | 1/3 gal                                               |
| QPTW7                  |                           | 2.14                      |                             |                                                       |
| QPTW10                 | 2.41                      | 2.84                      | 0.43                        | 1/12 gal                                              |
| QPTW12                 |                           | 1.95                      |                             |                                                       |
| QPTW13                 |                           | 2.53                      |                             |                                                       |

Amount of Product in Tote

85 gals



# SAGINAW MALLEABLE INDUSTRIAL LAND - SITE INSPECTION

On-Site Personnel: Steve Hoevermeyer

Completed Date: 9/22/16

Completed By: SH

## 1. INSPECTIONS COMPLETED

- ☒ Southwest Plant LNAPL Area  
☒ Quench Pit LNAPL Area

Weather sun/clouds, wind Smp  
 Temperature low 70s

## 2. SOUTHWEST PLANT LNAPL AREA

- ☒ Is there LNAPL present at the ground surface in the Southwest Plant LNAPL area? No  
☒ Is there LNAPL present at the stormwater pond? No  
☒ Is there LNAPL present at the secondary pond? No

| LNAPL Gauging            | LNAPL Reading<br>(ft bgs) | Water Reading<br>(ft bgs) | Amount of Product<br>(feet) | Comments (amount bailed, date absorber<br>sock installed, % sock saturated) |
|--------------------------|---------------------------|---------------------------|-----------------------------|-----------------------------------------------------------------------------|
| Manhole                  |                           |                           |                             |                                                                             |
| W6.8                     |                           | 4.48                      |                             |                                                                             |
| V3.6                     | —                         | 4.56                      |                             |                                                                             |
| MH on abandoned 30" line |                           | 3.84                      |                             | slight sheen                                                                |
| X8.2                     |                           | 4.27                      |                             |                                                                             |
| X5.9                     |                           | 4.08                      |                             |                                                                             |
| W13.1                    |                           | 4.44                      |                             |                                                                             |
| X10.3                    |                           | 3.13                      |                             |                                                                             |
| W9.6                     |                           | 4.79                      |                             |                                                                             |
| S5.6                     |                           | 5.78                      |                             |                                                                             |
| FV3.0                    | —                         | 3.58                      |                             | little seum; boom                                                           |

## 3. QUENCH PIT AREA

- ☒ Is there LNAPL present at the ground surface in the Quench Pit area? No  
☒ Is the LNAPL building secure? yes  
☒ Is skimmer pump running? no

| LNAPL Gauging   | LNAPL Reading<br>(ft bgs) | Water Reading<br>(ft bgs) | Amount of Product<br>(feet) | Comments<br>(amount bailed, absorbent sock installed) |
|-----------------|---------------------------|---------------------------|-----------------------------|-------------------------------------------------------|
| Monitoring Well |                           |                           |                             |                                                       |
| QP1             | —                         | 7.45                      |                             |                                                       |
| QP2             | 5.99                      | 6.38                      | 0.39                        |                                                       |
| QP3             | 5.68                      | 5.72                      | 0.04                        |                                                       |
| QPTW1           | 2.86                      | 3.82                      | 0.96                        | 1/8 gal                                               |
| QPTW2           | —                         | 2.98                      |                             |                                                       |
| QPTW3R          | 3.05                      | 3.78                      | 0.73                        | 1/8 gal                                               |
| QPTW4           | 2.80                      | 4.61                      | 1.81                        | 1/4 gal                                               |
| QPTW5           | 3.15                      | 5.67                      | 2.52                        | 1/3 gal                                               |
| QPTW7           |                           | 3.31                      |                             |                                                       |
| QPTW10          | 3.27                      | 5.60                      | 2.33                        | 1/3 gal                                               |
| QPTW12          | —                         | 3.03                      |                             |                                                       |
| QPTW13          |                           | 3.72                      |                             | drops of LNAPL                                        |

Amount of Product in Tote \_\_\_\_\_

### Notes

W6.0 - 4.16

Attachment D  
MDEQ Approval of Monitoring Well  
Re-Installation in the Quench Pit Area

## Grier, Whitney

---

**From:** Armbruster, Amanda (DEQ) <ARMBRUSTERA@michigan.gov>  
**Sent:** Friday, September 02, 2016 10:02 AM  
**To:** Pardys, John-Eric  
**Cc:** Dave Favero; Rousseau, Matthew; Klann, Rhonda (DEQ)  
**Subject:** RE: ~COR-007878~SMI - wells proposed for abandonment and re-installation

Great. Could you also let me know when you have a start date for excavation activities? I might try to swing by to take a look.

Thanks,  
Amanda Armbruster, Geologist  
Michigan Department of Environmental Quality  
Remediation and Redevelopment Division  
Saginaw Bay District Office  
989-894-6242 phone  
989-894-6259 fax

---

**From:** Pardys, John-Eric [mailto:John-Eric.Pardys@ghd.com]  
**Sent:** Friday, September 02, 2016 9:34 AM  
**To:** Armbruster, Amanda (DEQ)  
**Cc:** Dave Favero; Rousseau, Matthew; Klann, Rhonda (DEQ)  
**Subject:** RE: ~COR-007878~SMI - wells proposed for abandonment and re-installation

Amanda,

Thanks for the response.

We are willing to incorporate the changes and are moving forward with the construction plans.

**John-Eric Pardys P. Eng.**

### GHD

T: 1 519 884 0510 x3554 | F: 1 519 884 0525 | E: [john-eric.pardys@ghd.com](mailto:john-eric.pardys@ghd.com) | [www.ghd.com](http://www.ghd.com)  
Mailing address: 651 Colby Drive Waterloo Ontario N2V 1C2 Canada  
Office address: 40 Bathurst Drive Waterloo Ontario N2V 1V6 Canada

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---

**From:** Armbruster, Amanda (DEQ) [mailto:ARMBRUSTERA@michigan.gov]  
**Sent:** Friday, September 02, 2016 9:13 AM  
**To:** Pardys, John-Eric  
**Cc:** Dave Favero; Rousseau, Matthew; Klann, Rhonda (DEQ)  
**Subject:** RE: ~COR-007878~SMI - wells proposed for abandonment and re-installation

John-Eric,

Thank you for the detailed response. We are in agreement with the proposed work with a few exceptions. In addition to the 7 monitoring wells proposed for reinstallation, we would like QP-1 and QPTW-13 to be replaced. QP-1 had NAPL when it was installed and it is situated between two wells that exhibited greater than 2 feet of NAPL in 2015. QPTW-13 is located in the general downgradient direction of QPTW-10 and had NAPL detections as recent as 2013. The well screens are also submerged, so we believe reinstallation is warranted.

Quarterly NAPL monitoring for the replacement wells is acceptable, but only one year of monitoring cannot be approved at this time. If no NAPL is encountered at the completion of one year of monitoring a proposal can be made to discontinue or reduce monitoring. Supporting documentation will be needed to show the disappearance of NAPL was not influenced by fluctuating groundwater elevations or other factors. If NAPL is identified, recovery options need to be evaluated based on thicknesses identified and transmissivity of the wells, etc.

Our last comment is regarding the use of de minimus in relation to transmissivity levels less than 0.5 ft<sup>2</sup>/day. For clarification, NAPL is not considered de minimus at transmissivity values of 0.5 or less. Having transmissivity values below that level is a means of showing NAPL can no longer be recovered in a cost-effective and efficient manner (which is different than de minimus). De minimus arguments are more appropriate for evaluating the volume and impact of remaining contamination.

If you are willing to incorporate our changes, feel free to move forward with your construction plans. If you have any concerns, let me know so we can discuss.

Thank you,  
Amanda Armbruster, Geologist  
Michigan Department of Environmental Quality  
Remediation and Redevelopment Division  
Saginaw Bay District Office  
989-894-6242 phone  
989-894-6259 fax

---

**From:** Pardys, John-Eric [<mailto:John-Eric.Pardys@ghd.com>]  
**Sent:** Monday, August 29, 2016 3:29 PM  
**To:** Armbruster, Amanda (DEQ)  
**Cc:** Dave Favero; Rousseau, Matthew; Klann, Rhonda (DEQ)  
**Subject:** RE: ~COR-007878~SMI - wells proposed for abandonment and re-installation

Amanda,

We appreciate the prompt response to our request. See our responses following your comments below in **bold**.

Should you have any further questions, please do not hesitate to contact us.

Thanks

**John-Eric Pardys P. Eng.**

**GHD**

T: 1 519 884 0510 x3554 | F: 1 519 884 0525 | E: [john-eric.pardys@ghd.com](mailto:john-eric.pardys@ghd.com) | [www.ghd.com](http://www.ghd.com)  
Mailing address: 651 Colby Drive Waterloo Ontario N2V 1C2 Canada  
Office address: 40 Bathurst Drive Waterloo Ontario N2V 1V6 Canada

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**From:** Armbruster, Amanda (DEQ) [<mailto:ARMBRUSTERA@michigan.gov>]  
**Sent:** Thursday, August 25, 2016 11:24 AM  
**To:** Pardys, John-Eric  
**Cc:** Dave Favero; Rousseau, Matthew; Klann, Rhonda (DEQ)  
**Subject:** RE: ~COR-007878~SMI - wells proposed for abandonment and re-installation

John-Eric,

I took a look at the wells proposed for abandonment. It looks like you are proposing to replace everything you had NAPL detections in last year, but I have a few questions:

See below for details on when or if LNAPL was observed in the wells we are not planning to re-install.

QPTW-02 – No LNAPL since '08 (and historically only had minor amounts of product)  
QPTW-06 – No LNAPL historically or currently  
QPTW-07 – No LNAPL historically (based on 1 reading in '97) or currently  
QPTW-08 - No LNAPL currently (unable to find any historical readings)  
QPTW-09 – No LNAPL historically (based on 1 reading in '97) or currently  
QPTW-11 – No LNAPL historically (based on 2 readings one in '97 and one in '08) or currently  
QPTW-12 – No LNAPL historically or currently  
QPTW-13 – No LNAPL historically (based on 2 readings one in '97 and one in '07), evidence of product between 2010 and 2013, no LNAPL since September 23, 2013  
QP-1 - At installation (June 2010) there was evidence of product, but product has not been measured in the well since August 2010.

Do all of these well currently straddle the water table?

All the monitoring wells proposed for abandonment were installed prior to or during the demolition (when the water table was lower). With the completion of the demolition the water level has come up and as such the top of screens for the Quench Pit monitoring wells proposed for abandonment are all at or below the water level (ie. screen is submerged).

What is the current construction? How will the new wells be constructed (diameter, screen length, etc.)?

The current construction of the majority of the wells is 2" diameter PVC, with the exception of the three wells installed in each of the former quench pits (QP1, QP2, QP3). Two of those wells were constructed of steel and are 16" in diameter and the other well was constructed of steel and is 4" in diameter. These wells were installed during the demolition of the quench pits and were intended to be LNAPL recovery wells.

The new wells would be constructed of PVC and be 2" diameter with 10ft screens straddling the water table with the exception of the replacement wells for QP-2 and QP-3 which would be constructed of PVC and be 4" diameter with 10ft screens straddling the water table. See below for levels of product in the QP recovery wells.

QP-1 - At installation (June 2010) there was evidence of product, but product has not been measured in the well since August 2010.

QP-2 – presence of product since installation (0.02 to 1.85 ft)

QP-3 – presence of product since installation (0.01 to 0.73 ft)

Is chemical analysis being done on any of the wells proposed for abandonment?



The current MDEQ approved monitoring program for this area does not include sampling or chemical analysis for any of these wells. We do not propose to complete sampling and chemical analysis on the wells being proposed for abandonment or the wells proposed for re-installation.

What is the plan for the treatment building/skimmer pump in QPTW-10?

The Plan is to move the treatment building/skimmer pump off of the work to allow for concrete removal and installing the soil cover. After the proposed wells are re-installed we propose to complete a transmissivity evaluation of all the re-installed wells. If the transmissivity level is less than the de minimus (0.5), we would propose no further active recovery be completed. If the transmissivity levels in one or more wells is above the de minimus, we would assess the value of continuing LNAPL recovery at that time based on the reasonably expected impact (risk reduction), of recovery on the residual LNAPL body. The building and skimmer pump will remain on-site as long as quarterly monitoring continues until MDEQ approve their complete removal from the Site.

Can the wells you are proposing to abandon be extended instead of replaced?

As the screens of the Quench Pit wells we are proposing to abandon are all at or below the water table we do not believe it is appropriate to try to extend the wells and based on experience it is very difficult to keep wells from being damaged during construction activity as is planned for the well locations.

I suspect it may take a while before NAPL starts to accumulate in any new wells. If NAPL doesn't show up right away, how long do you anticipate checking the new wells before you determine no NAPL is present?

We propose conducting quarterly level monitoring (consistent with the current program) and if no NAPL is present after 4 consecutive rounds of monitoring it can be concluded that LNAPL mobility/recoverability is de minimis by default and that no further action is needed to address the residual LNAPL and that monitoring can be discontinued.

I think what you are proposing to do is fine, but because of my lack of history with the site I'd feel better having some of the above information before we abandon the wells.

Thank you,

Amanda Armbruster, Geologist  
Michigan Department of Environmental Quality  
Remediation and Redevelopment Division  
Saginaw Bay District Office  
989-894-6242 phone  
989-894-6259 fax

---

**From:** Pardys, John-Eric [<mailto:John-Eric.Pardys@ghd.com>]  
**Sent:** Monday, August 22, 2016 9:56 AM  
**To:** Armbruster, Amanda (DEQ)  
**Cc:** Dave Favero; Rousseau, Matthew  
**Subject:** RE: ~COR-007878~SMI - wells proposed for abandonment and re-installation

Thank you.

JE

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**From:** Armbruster, Amanda (DEQ) [<mailto:ARMBRUSTERA@michigan.gov>]  
**Sent:** Monday, August 22, 2016 9:56 AM  
**To:** Pardys, John-Eric  
**Cc:** Dave Favero; Rousseau, Matthew  
**Subject:** RE: ~COR-007878~SMI - wells proposed for abandonment and re-installation

John-Eric,

I didn't see this come through last week, so I'm glad you resent it. I'll take a look at it this week and let you know if I have any concerns.

Amanda Armbruster, Geologist  
Michigan Department of Environmental Quality  
Remediation and Redevelopment Division  
Saginaw Bay District Office  
989-894-6242 phone  
989-894-6259 fax

---

**From:** Pardys, John-Eric [<mailto:John-Eric.Pardys@ghd.com>]  
**Sent:** Monday, August 22, 2016 8:39 AM  
**To:** Armbruster, Amanda (DEQ)  
**Cc:** Dave Favero; Rousseau, Matthew  
**Subject:** ~COR-007878~SMI - wells proposed for abandonment and re-installation

Amanda,

GHD was having some difficulty sending emails last week, so I am sending this email again in the event you did not receive it. Thanks.

In preparation for the upcoming PCB work to be completed at RACER's Malleable Iron Industrial Land Site (former SMI facility) in Saginaw, MI, RACER/GHD is proposing to abandon monitoring wells on and nearby the concrete floor slab since the upcoming work includes the installation of a 1-ft cover over the entire concrete floor slab. Following the installation of the cover and subject to acceptable weather, a sub-set of the monitoring wells would be re-installed to continue evaluation of LNAPL in the Quench Pit Area.

Please see the attached figure which identifies those wells proposed for abandonment (highlighted in yellow) and those monitoring wells proposed for abandonment and re-installation (highlighted in blue). The monitoring wells selected to be re-installed have had historical and/or current presence of LNAPL. At this time, we do not believe re-installation of wells for delineation or verifying no migration is necessary, since NAPL was deemed "effectively immobile, unrecoverable, and stable/non-migrating overall in the bulk of the soil matrix" (November 2014 NAPL presentation). In total there are 23 monitoring wells that would be abandoned and 7 monitoring wells that would be re-installed.

We have tentatively scheduled the abandonment of the monitoring wells for the end of the month.

Should you have any questions or require additional information, please do not hesitate to contact us.

Thanks

**John-Eric Pardys P. Eng.**

**GHD**

T: 1 519 884 0510 x3554 | F: 1 519 884 0525 | E: [john-eric.pardys@ghd.com](mailto:john-eric.pardys@ghd.com) | [www.ghd.com](http://www.ghd.com)  
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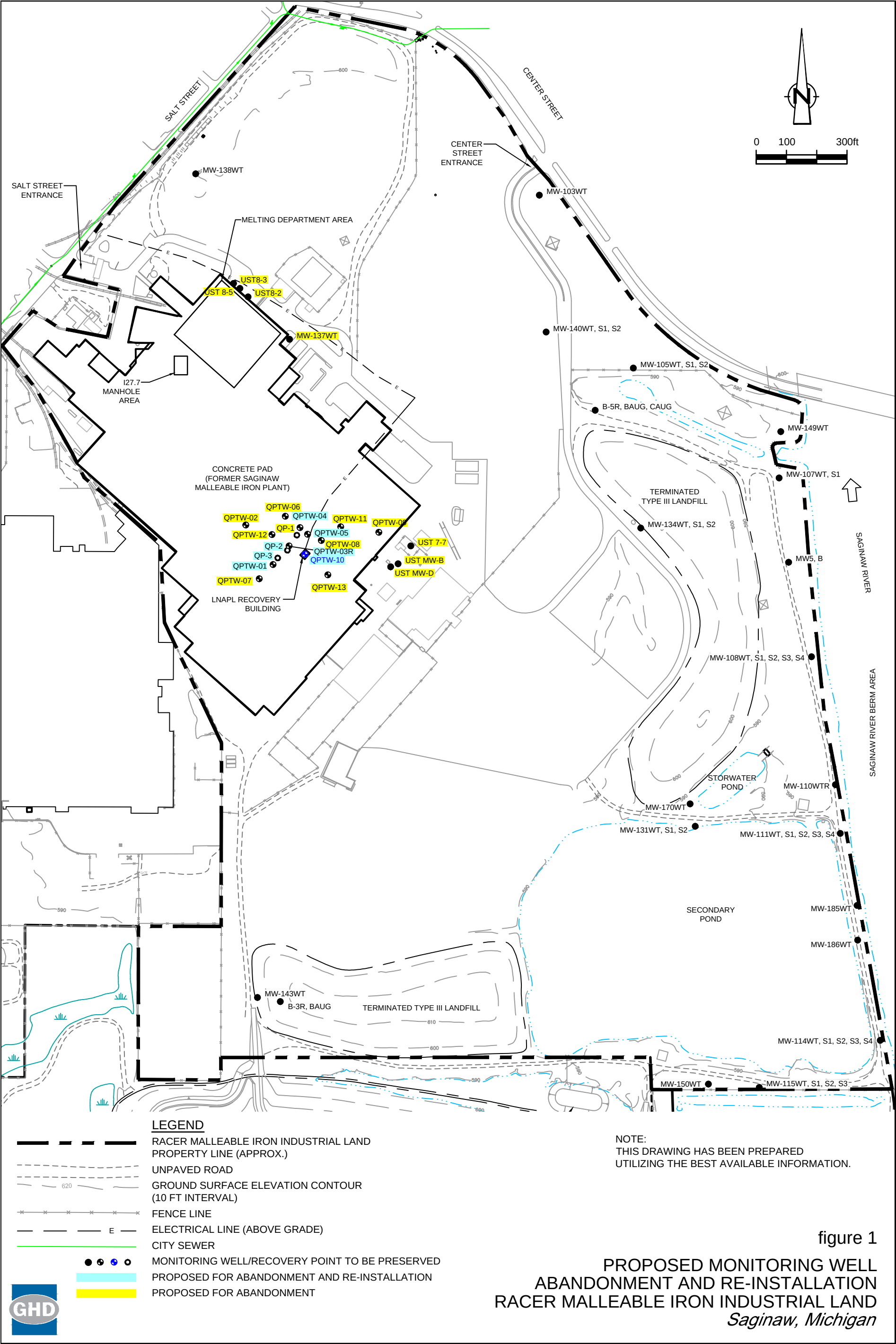
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# Attachment E

## LNAPL Transmissivity Estimation



## Attachment E

### LNAPL Transmissivity Estimation – Manual Skimming Technique

#### **Field Procedure**

This field procedure is a simplified version of the methodology presented in ASTM International Standard E2856-13 *Standard Guide for Estimation of LNAPL Transmissivity*. The manual skimming procedure provides a way to quantify LNAPL recoverability through the estimation of LNAPL transmissivity based on LNAPL recovery rates observed during a test. This is different than the baildown technique, which depends on changes in LNAPL drawdown or in-well thickness observed following an initial purge of LNAPL from a well. The fundamental premise of the manual skimming technique is that LNAPL is removed from a well such that a relatively consistent level of LNAPL drawdown is maintained until a stabilized/consistent removal rate is observed. The basic field procedure is as follows:

1. Gauge the test well using an oil-water interface probe and record initial depths to LNAPL and water. Calculate corresponding in-well LNAPL thickness.
2. Initially purge as much of the LNAPL from the test well as possible using a bailer or pump, taking care to minimize the amount of water removed with the LNAPL. Record the volume of LNAPL purged and the purging start and stop times.
3. Begin monitoring the recharge of LNAPL into the well by periodically recording depths to LNAPL and water and time of measurement.
4. Repeat removal of LNAPL from the well before the in-well thickness has recovered to 25 percent of its pre-purging value. Record start and stop times for each purging event and volume of LNAPL purged.
5. Repeat the purge/gauging cycle until the observed recovery rates are within 25 percent of each other for 3-4 purges (and there is not a consistent declining trend). Therefore, a complete test will consist of at least 4-5 purging events.
  - a) The recovery rate for each purge event is estimated by dividing the volume of LNAPL recovered during the purge event (typically in gallons) by the time from the end of the previous purge event to the end of the current purge event (typically in minutes).

#### Notes:

- Most wells will not require tests to continue beyond one day.
- In the event of slow LNAPL recharge, re-purge the well whenever enough LNAPL accumulates to allow purging (i.e., do not wait for in-well thickness to recover to 25 percent of pre-test thickness if waiting will result in only 1 or 2 purges over the course of a day).
- ASTM suggests the following frequencies for purging/gauging events that can be adjusted in the field based on LNAPL recharge rate:
  - First hour: every 10 minutes (6 purges and/or measurements)
  - 2h – 4h: Every 30 minutes (4 purges and/or measurements)
  - 4h – End of Day: At least 1 purge and/or measurement
  - Subsequent Days (if needed): At least 2 purges and/or measurements

## Data Reduction

The LNAPL recovery rates measured in the field are used to estimate LNAPL transmissivity according to the following equation (ASTM 2013, Eq. 16):

$$T_n = \frac{Q_n \ln\left(\frac{R_{oi}}{r_w}\right)}{2\pi S_n} \quad (1)$$

Where:  $T_n$  = LNAPL transmissivity (ft<sup>2</sup>/day)

$Q_n$  = stabilized LNAPL recovery rate (ft<sup>3</sup>/day)

$R_{oi}$  = radius of influence (ft)

$r_w$  = well radius (ft)

$S_n$  = LNAPL drawdown, the geometric mean of LNAPL drawdown values measured/calculated that correspond to the LNAPL recovery rate range used in the calculations (see below)

### Notes:

1. ASTM indicates that assuming the  $\ln(R_{oi}/r_w)$  term is equal to 4.6 is a common practice that introduces little additional error.
2. In cases where LNAPL recovery rates are still declining at the termination of a test, the use of the last LNAPL recovery rate estimate will provide a conservative/upper bound estimate of LNAPL transmissivity (i.e., continuation of the test would most likely only result in a lower LNAPL transmissivity estimate).
3. LNAPL transmissivity values are compared against a de minimis recoverability criterion of 0.5 ft<sup>2</sup>/day as stipulated in MDEQ RRD Resource Materials Document 25-2014-01. The performance of LNAPL recovery where LNAPL recoverability is at de minimis levels is not considered to be technically feasible. In other words, LNAPL recovery where LNAPL recoverability is at de minimis levels would not be expected to provide much benefit since most of the LNAPL body will most likely be unaffected by the activity (i.e., most of the LNAPL is likely present as unrecoverable residual). The ITRC criterion can also serve as a practical end-point to LNAPL recovery activities.
4. The LNAPL drawdown calculation ( $S_n$ ) will vary depending on whether LNAPL is present under confined, unconfined or perched conditions. The following discussion details the calculation of LNAPL drawdown at any given time (t) during a test for the different conditions.

### **Unconfined/Perched – Measured LNAPL Drawdown**

The LNAPL drawdown at any point during the test is estimated via the following calculation where conditions are unconfined or perched (ASTM 2012):

$$S_{nt} = Z_{AN*} - Z_{AN(t)} \quad (2)$$

Where:  $Z_{AN*}$  = the air/oil interface (or top of LNAPL) elevation for equilibrium/pre-test conditions (ft)

$Z_{AN(t)}$  = the air/oil interface (or top of LNAPL) elevation at time t (ft)

$S_{nt}$  = LNAPL drawdown at time t (ft)

### **Unconfined/Perched – Theoretical Maximum LNAPL Drawdown**

The theoretical maximum LNAPL drawdown that can be achieved at a given site/well can be calculated to compare against measured LNAPL drawdown values according to the following methodology (ASTM 2012):

$$S_{n-unconfined} = b_n(1 - \rho_r) \quad (3)$$

$$S_{n-perched} = b_{nf-perched} \quad (4)$$

Where:  $b_n$  = pre-recovery LNAPL thickness in a well (ft)

$b_{nf-perched}$  = LNAPL thickness in the formation, can be estimated as the difference between the equilibrium/pre-test air/LNAPL interface (or top of LNAPL) elevation and the elevation of the top of the perched layer in contact with the LNAPL (ft)

$\rho_r$  = LNAPL relative density or specific gravity (dimensionless)

Notes:

1. Where measured LNAPL drawdowns exceed the theoretical maximum LNAPL drawdown, the following possibilities should be considered:
  - a) The assumed conditions that the LNAPL is present under (unconfined, confined, perched) may not be correct. Review available well logs and historical well gauging data to confirm actual conditions.
  - b) The extraction of water during the LNAPL purges may result in an apparent exaggeration of LNAPL drawdown. Where this is suspected as being the case, the theoretical maximum LNAPL drawdown should be used in lieu of the measured LNAPL drawdown values (where applicable).

### **Confined – Measured LNAPL Drawdown**

For confined conditions, it will be necessary to have well logs available in order to assess the elevation of the bottom of the confining unit (in contact with LNAPL) and compare with measured elevations of the LNAPL/water interface (in-well) at a given location. Where the measured LNAPL/water interface is above the elevation of the confining unit and the water table is at equilibrium conditions, the following calculation is used to estimate LNAPL drawdown (ASTM 2012):

$$S_{nt} = b_{nf-confined} \left( \frac{1 - \rho_r}{\rho_r} \right) \quad (5)$$

Where:  $b_{nf-confined}$  = LNAPL thickness in the formation, can be estimated as the difference between the pre-test LNAPL/water interface elevation and the elevation of the bottom of the confining layer in contact with the LNAPL (ft)

Where the measured LNAPL/water interface is above the elevation of the confining unit and the water table is not at equilibrium conditions, the following calculation is used to estimate LNAPL drawdown (ASTM 2012):

$$S_{nt} = \frac{(Z_{AN*} - Z_{cc})\rho_n - (Z_{NW(t)} - Z_{cc})\rho_w - (Z_{AN(t)} - Z_{NW(t)})\rho_n}{\rho_n} \quad (6)$$

Where:  $Z_{cc}$  = elevation of confining unit/LNAPL contact in formation (ft)

$Z_{NW(t)}$  = elevation of LNAPL/water interface in well at time t (ft)

$Z_{AN*}$  = elevation of air/LNAPL interface in well for equilibrium conditions (ft)

$\rho_n$  = LNAPL density (lb/ft<sup>3</sup>)

$\rho_w$  = groundwater density (lb/ft<sup>3</sup>)

Notes:

1. Examples of non-equilibrium conditions include significant/frequent water table fluctuations (e.g., tidal areas) or recent LNAPL recovery events where LNAPL may not have fully recharged into a well about to be tested.

Where the measured LNAPL/water interface is below the elevation of the confining unit (before or at any point during a test), LNAPL drawdown is calculated consistent with unconfined conditions (Equation 2).

### **Confined – Theoretical Maximum LNAPL Drawdown**

Under confined conditions, the theoretical maximum drawdown is calculated according to Equation 3.

# ATTACHMENT 3

Green Point Landfill Well Construction Logs, Sampling  
Parameters, and Field Parameters



**Attachment 3**  
**Monitoring Well Sampling Plan and Construction Summary**  
**2016 Annual Report**  
**RACER Trust**  
**Green Point Landfill**  
**Saginaw, Michigan**

| Well ID  | Screen Interval (ft) <sup>1</sup> | Screened Unit/Zone | Well Construction | Date Installed | TIC <sup>2</sup> Elevation (ft) <sup>3</sup> |
|----------|-----------------------------------|--------------------|-------------------|----------------|----------------------------------------------|
| MW-117WT | 3 - 13                            | Water table        | 2" PVC            | 5/3/95         | 582.37                                       |
| MW-117S1 | 24.2 - 29.2                       | Lower Sand         | 2" PVC            | 5/3/95         | 583.70                                       |
| MW-118WT | 1.6 - 11.6                        | Water table        | 2" PVC            | 5/2/95         | 582.98                                       |
| MW-118S1 | 23.5 - 28.5                       | Lower Sand         | 2" PVC            | 5/2/95         | 583.28                                       |
| MW-183WT | 6-16                              | Water table        | 2" PVC            | 7/24/00        | 588.77                                       |
| X-4AR    | NA-8.3                            | Water table        | 2" PVC            | NA             | NA                                           |
| X-4CAUGR | 14-19                             | Upper Sand         | 2" PVC            | 7/24/07        | NA                                           |
| X-4D     | 40-45                             | Lower Sand         | 2" PVC            | 7/23/07        | NA                                           |
| X-9AR    | 3-13                              | Water table        | 2" PVC            | 6/2/80         | 586.95                                       |
| X-9BR    | 26-31                             | Upper Sand         | 2" PVC            | 6/2/80         | 586.85                                       |
| X-9CAUG  | 20-25                             | Upper Sand         | 2" PVC            | 6/2/80         | 586.62                                       |
| X-9D     | 42.5-47.5                         | Lower Sand         | 2" PVC            | 7/23/07        | NA                                           |
| TWW-1    | 1.5-6.5                           | Water table        | 2" PVC            | 1/22/97        | 587.31                                       |

**Notes:**

- 1 Depths are in feet below ground surface (bgs). Note that the screened intervals of the MW-128 and X-1 well clusters have been adjusted due to the addition of riser to the wells during landfill capping.
  - 2 TIC = Top of inner casing.
  - 3 Elevations are in feet above mean sea level (AMSL).
- NA = not applicable/not available.



| Constituent & Preservative - Container Description |                                          |                                         |                              |                                        |                        |                                                               |                                                                  |                             |                 |                                                                                                                                                                                                                                                             |
|----------------------------------------------------|------------------------------------------|-----------------------------------------|------------------------------|----------------------------------------|------------------------|---------------------------------------------------------------|------------------------------------------------------------------|-----------------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Well                                               | TAL Metals (ULF Only)<br>NA - 500mL Poly | TAL Dissolved Metals<br>NA - 500mL Poly | Cyanide<br>NaOH - 125mL Poly | Dissolved Cyanide<br>NaOH - 125mL Poly | TDS<br>NA - 500mL Poly | pH, sulfate, chloride,<br>nitrate, nitrite<br>NA - 500mL Poly | Ammonia nitrogen<br>H <sub>2</sub> SO <sub>4</sub> - 500 mL Poly | TCL VOCs<br>HCl - 40mL Poly | Screen interval | QA/QC                                                                                                                                                                                                                                                       |
| MW-117S1 <sup>1</sup>                              |                                          | X                                       | X                            | X                                      | X                      | X                                                             | X                                                                | 24.2-<br>29.2               |                 |                                                                                                                                                                                                                                                             |
| MW-117WT <sup>1</sup>                              |                                          | X                                       | X                            | X                                      | X                      | X                                                             | X                                                                | 3-13                        |                 |                                                                                                                                                                                                                                                             |
| MW-118S1 <sup>1</sup>                              |                                          | X                                       | X                            | X                                      | X                      | X                                                             | X                                                                | 23.5-<br>28.5               |                 |                                                                                                                                                                                                                                                             |
| MW-118WT <sup>1</sup>                              |                                          | X                                       | X                            | X                                      | X                      | X                                                             | X                                                                | 1.6-11.6                    |                 |                                                                                                                                                                                                                                                             |
| MW-183WT <sup>1,2</sup>                            | X                                        | X                                       | X                            | X                                      | X                      | X                                                             | X                                                                | 6-16                        |                 | <u>duplicate</u> for ammonia nitrogen, total TAL metals, dissolved cyanide, chloride, sulphate, pH, nitrite, nitrate, and TDS;<br><u>MS/MSD</u> for ammonia nitrogen, total TAL metals, dissolved cyanide, chloride, pH, sulfate, nitrite, nitrate, and TDS |
| X-10BR <sup>1</sup>                                |                                          | X                                       | X                            | X                                      | X                      | X                                                             | X                                                                | 31.3-<br>31.7               |                 | abandoned                                                                                                                                                                                                                                                   |
| X-4AR <sup>1,2,3</sup>                             | X                                        | X                                       | X                            | X                                      | X                      | X                                                             | X                                                                | NA-8.3                      |                 |                                                                                                                                                                                                                                                             |
| X-4CAUGR <sup>1,2</sup>                            | X                                        | X                                       | X                            | X                                      | X                      | X                                                             | X                                                                | 14-19                       |                 |                                                                                                                                                                                                                                                             |
| X-4D <sup>1,2</sup>                                | X                                        | X                                       | X                            | X                                      | X                      | X                                                             | X                                                                | 40-45                       |                 |                                                                                                                                                                                                                                                             |
| X-9AR <sup>1,2</sup>                               | X                                        | X                                       | X                            | X                                      | X                      | X                                                             | X                                                                | 3-13                        |                 |                                                                                                                                                                                                                                                             |
| X-9BR <sup>1,2</sup>                               | X                                        | X                                       | X                            | X                                      | X                      | X                                                             | X                                                                | 26-31                       |                 |                                                                                                                                                                                                                                                             |
| X-9CAUG <sup>1,2</sup>                             | X                                        | X                                       | X                            | X                                      | X                      | X                                                             | X                                                                | 20-25                       |                 |                                                                                                                                                                                                                                                             |
| X-9D <sup>1,2</sup>                                | X                                        | X                                       | X                            | X                                      | X                      | X                                                             | X                                                                | 42.5-<br>47.5               |                 | <u>MS/MSD</u> for ammonia nitrogen, dissolved cyanide, chloride, pH, sulphate, nitrite, nitrate, and TDS                                                                                                                                                    |
| TWW-1                                              |                                          |                                         |                              |                                        |                        |                                                               | X                                                                | 1.5-6.5                     |                 | <u>duplicate</u> for VOC                                                                                                                                                                                                                                    |

**Notes:**

<sup>1</sup>TAL Dissolved Metals plus cyanide, and Indicator Parameters (pH, sulfate, chloride, total dissolved solids, nitrate, nitrite, and ammonia nitrogen).

<sup>2</sup>Ultra Low Flow sampling refers to the use of a purge and sampling rate of approximately 1 liter per hour, implemented to minimize sample turbidity.

<sup>3</sup>Monitoring went dry during purging. Well was allowed to recharge and samples collected.

BOLD - ultra low flow

Attachment 3  
Field Parameters  
RACER Trust  
Green Point Landfill  
Saginaw, Michigan

| Well ID               | Date Sampled                     | Conductivity (mS/cm) | Dissolved Oxygen (mg/L) | Oxidation Reduction Potential (mV) | pH (SU) | Temperature (°C) | Turbidity (NTUs) |
|-----------------------|----------------------------------|----------------------|-------------------------|------------------------------------|---------|------------------|------------------|
| MW-117S1              | 10/01/10                         | 1.243                | 0.21                    | -82.5                              | 8.14    | 13.15            | 1.3              |
| MW-117S1              | 09/27/11                         | 1.7                  | 1.26                    | -82.3                              | 6.89    | 15.7             | 0.8              |
| MW-117S1              | 09/13/12                         | 1.310                | . <sup>2</sup>          | -90.3                              | 6.77    | 15.61            | 0.42             |
| MW-117S1              | 09/24/13                         | 4.123                | 0.75                    | -126.0                             | 6.87    | 11.23            | 0.4              |
| MW-117S1              | 09/22/14                         | 1.307                | 0.58                    | -50.4                              | 6.45    | 12.14            | 4.5              |
| MW-117S1              | 10/01/15                         | 1.681                | 0.17                    | 127.91                             | 6.69    | 13.28            | 8.03             |
| MW-117S1              | 09/27/16                         | 0.643                | 0.89                    | -34.7                              | 6.56    | 15.64            | 7.99             |
| MW-117WT              | 10/01/10                         | 8.45                 | 0.11                    | -90                                | 8.45    | 16.51            | 0.9              |
| MW-117WT              | 09/27/11                         | 9.535                | 0.68                    | -103                               | 6.60    | 13.39            | 1.1              |
| MW-117WT              | 09/13/12                         | 10.33                | . <sup>2</sup>          | -77.2                              | 6.23    | 16.32            | 0.68             |
| MW-117WT              | 09/24/13                         | 29.95                | 0.4                     | -109.8                             | 6.37    | 12.72            | 0.80             |
| MW-117WT              | 09/23/14                         | 8.05                 | 0.7                     | -57.8                              | 6.25    | 12.05            | 8.60             |
| MW-117WT              | 10/01/15                         | 9.684                | 0.4                     | -97.38                             | 6.55    | 12.74            | 5.96             |
| MW-117WT              | 09/27/16                         | 9.531                | 0.3                     | -157.64                            | 6.71    | 15.85            | 2.72             |
| MW-118S1 <sup>1</sup> | 09/27/11                         | 1.81                 | 1.19                    | -91.9                              | 7.02    | 17.6             | 0.3              |
| MW-118S1              | 09/13/12                         | 1.803                | 3.82                    | -230.3                             | 6.83    | 15.83            | 1.03             |
| MW-118S1              | 09/24/13                         | 4.289                | 0.72                    | -95.8                              | 6.36    | 13.17            | 0.9              |
| MW-118S1              | 09/22/14                         | 1.38                 | 0.30                    | -56                                | 6.35    | 12.49            | 9.7              |
| MW-118S1              | 10/01/15                         | 1.753                | 0.20                    | 116.27                             | 6.77    | 12.78            | 1.4              |
| MW-118S1              | 09/27/16                         | 0.662                | 0.94                    | 13.84                              | 6.71    | 14.3             | 7.91             |
| MW-118WT              | 09/30/10                         | 3.435                | 0.22                    | -104.2                             | 7.27    | 14.89            | 1.8              |
| MW-118WT              | 09/27/11                         | 3.261                | 0.71                    | -92.8                              | 6.43    | 17.13            | 0.3              |
| MW-118WT              | 09/13/12                         | 2.451                | 1.37                    | -201.4                             | 6.74    | 16.99            | 0.66             |
| MW-118WT              | 09/24/13                         | 5.017                | 0.95                    | -115.3                             | 6.38    | 15.17            | 0.4              |
| MW-118WT              | 09/22/14                         | 1.521                | 0.20                    | -60.4                              | 6.72    | 12.88            | 8.2              |
| MW-118WT              | 10/01/15                         | 1.939                | 0.36                    | -126.86                            | 6.99    | 17.02            | 1.4              |
| MW-118WT              | 09/27/16                         | 2.072                | 0.79                    | -161.44                            | 6.99    | 15.74            | 0.79             |
| MW-183WT              | 09/28/10                         | 0.633                | 0.33                    | -119.6                             | 7.45    | 13.01            | 3.5              |
| MW-183WT              | 09/28/11                         | 0.814                | 0.26                    | -128.1                             | 7.73    | 13.82            | 1.2              |
| MW-183WT              | 09/14/12                         | 0.962                | 0.25                    | -207.6                             | 7.11    | 15.30            | 0.43             |
| MW-183WT              | 09/24/13                         | 2.390                | 0.51                    | -105.2                             | 6.56    | 17.12            | 1.8              |
| MW-183WT              | 09/22/14                         | Missing field notes  |                         |                                    |         |                  |                  |
| MW-183WT              | 10/01/15                         | 0.750                | 0.37                    | -139.06                            | 7.28    | 13.45            | 0.9              |
| MW-183WT              | 09/28/16                         | 1.299                | 0.20                    | -125.02                            | 7.23    | 16.52            | 0.20             |
| TMW-1                 | 09/29/10                         | 3.924                | 1.15                    | -54.7                              | 6.99    | 15.08            | 9.1              |
| TMW-1                 | 09/21/11                         | 2.89                 | 3.11                    | -7.1                               | 6.87    | 18.42            | 1.2              |
| TMW-1                 | 09/14/12                         | 2.289                | . <sup>2</sup>          | 19.0                               | 6.87    | 19.30            | 0.59             |
| TMW-1                 | 09/24/13                         | 3.004                | 0.64                    | -139.6                             | 6.84    | 17.47            | 2.27             |
| TMW-1                 | 09/23/14                         | 2.342                | 0.23                    | -89.9                              | 6.91    | 17.35            | 1.01             |
| TMW-1                 | 10/01/15                         | 2.534                | 0.49                    | 84.32                              | 6.79    | 17.82            | 6.09             |
| TMW-1                 | 09/28/16                         | 2.531                | 0.34                    | -156.95                            | 7.06    | 18.04            | 1.56             |
| X-4AR                 | DRY<br>2010, 2011, 2012,<br>2013 | NA                   | NA                      | NA                                 | NA      | NA               | NA               |

Attachment 3  
Field Parameters  
RACER Trust  
Green Point Landfill  
Saginaw, Michigan

| Well ID            | Date Sampled | Conductivity (mS/cm) | Dissolved Oxygen (mg/L) | Oxidation Reduction Potential (mV) | pH (SU) | Temperature (°C) | Turbidity (NTUs) |
|--------------------|--------------|----------------------|-------------------------|------------------------------------|---------|------------------|------------------|
| X-4AR              | 10/01/15     | 1.008                | 8.26                    | 45.81                              | 8       | 22.09            | 142.9            |
| X-4AR <sup>3</sup> | 09/28/16     | 0.360                | 2.07                    | 9.63                               | 7.23    | 17.08            | 20.11            |
| X-4CAUGR           | 09/28/10     | 1.03                 | 0.34                    | -79.8                              | 7.11    | 12.29            | 1.1              |
| X-4CAUGR           | 09/26/11     | 0.971                | 1.17                    | -97.1                              | 6.96    | 17.25            | 1.2              |
| X-4CAUGR           | 09/14/12     | 1.050                | 0.19                    | -293.7                             | 6.93    | 11.83            | 0.48             |
| X-4CAUGR           | 09/24/13     | 0.783                | 0.19                    | -64.1                              | 6.22    | 13.21            | 1.49             |
| X-4CAUGR           | 09/22/14     | Missing field notes  |                         |                                    |         |                  |                  |
| X-4CAUGR           | 10/01/15     | 1.225                | 0.25                    | -116.75                            | 7.10    | 13.43            | 2.29             |
| X-4CAUGR           | 09/28/16     | 0.396                | 0.85                    | -14.23                             | 6.78    | 14.88            | 0.68             |
| X-4D               | 09/28/10     | 4.58                 | 0.53                    | -146.7                             | 7.41    | 13.45            | 1.3              |
| X-4D               | 09/26/11     | 4.897                | 1.67                    | -105.7                             | 7.62    | 15.94            | 0.0              |
| X-4D               | 09/14/12     | 4.884                | 0.50                    | -208.1                             | 7.20    | 11.92            | 0.4              |
| X-4D               | 09/24/13     | 3.937                | 0.23                    | -36.8                              | 6.40    | 13.30            | 1.45             |
| X-4D               | 09/22/14     | Missing field notes  |                         |                                    |         |                  |                  |
| X-4D               | 10/01/15     | 4.561                | 0.18                    | 110.66                             | 7.19    | 12.91            | 4.08             |
| X-4D               | 09/28/16     | 4.908                | 0.22                    | -151.91                            | 7.35    | 15.05            | 0.10             |
| X-9AR              | 09/29/10     | 0.815                | 0.24                    | -81.5                              | 7.45    | 11.44            | 0.9              |
| X-9AR              | 09/23/11     | 1.142                | 0.38                    | -114.8                             | 7.09    | 11.63            | 0.0              |
| X-9AR              | 09/12/12     | 1.056                | 8.20                    | -92.7                              | 6.88    | 14.03            | 0.45             |
| X-9AR              | 09/25/13     | 5.685                | 0.26                    | -122.6                             | 6.95    | 10.54            | 1.90             |
| X-9AR              | 09/22/14     | Missing field notes  |                         |                                    |         |                  |                  |
| X-9AR              | 10/01/15     | 1.224                | 0.71                    | -126.9                             | 6.90    | 12.1             | 1.34             |
| X-9AR              | 09/28/16     | 0.417                | 0.66                    | -56.94                             | 6.63    | 15.03            | 1.95             |
| X-9BR              | 09/28/10     | 1.215                | 0.10                    | -93.4                              | 7.09    | 14.53            | 0.8              |
| X-9BR              | 09/23/11     | 1.41                 | 0.20                    | -113.8                             | 7.13    | 11.29            | 0.0              |
| X-9BR              | 09/12/12     | 1.358                | 0.21                    | -217.9                             | 6.69    | 14.02            | 0.97             |
| X-9BR              | 09/25/13     | 6.571                | 0.24                    | -146.0                             | 6.98    | 11.31            | 1.76             |
| X-9BR              | 09/22/14     | Missing field notes  |                         |                                    |         |                  |                  |
| X-9BR              | 10/01/15     | 1.859                | 0.36                    | 129.69                             | 6.92    | 11.49            | 7.27             |
| X-9BR              | 09/28/16     | 2.020                | 0.08                    | -168.87                            | 7.19    | 15.33            | 2.36             |
| X-9CAUG            | 09/28/10     | 0.995                | 0.29                    | -72.3                              | 6.97    | 12.45            | 0.1              |
| X-9CAUG            | 09/23/11     | 1.07                 | 0.45                    | -116.9                             | 7.03    | 12.79            | 0.0              |
| X-9CAUG            | 09/12/12     | 1.132                | 1.98                    | -137.1                             | 6.65    | 21.04            | 0.76             |
| X-9CAUG            | 09/25/13     | 5.046                | 0.27                    | -69.0                              | 6.54    | 15.64            | 1.29             |
| X-9CAUG            | 09/22/14     | Missing field notes  |                         |                                    |         |                  |                  |
| X-9CAUG            | 10/01/15     | 1.469                | 0.27                    | -156.66                            | 7.12    | 12.32            | 4.73             |
| X-9CAUG            | 09/28/16     | 0.634                | 0.60                    | 0.50                               | 6.74    | 12.24            | 3.95             |
| X-9D               | 09/28/10     | 3.257                | 0.41                    | -93.2                              | 7.31    | 12.54            | 0.1              |
| X-9D               | 09/23/11     | 4.27                 | 0.56                    | -113.8                             | 7.44    | 11.73            | 0.0              |
| X-9D               | 09/12/12     | 3.510                | - <sup>2</sup>          | -83.1                              | 7.13    | 14.20            | 0.10             |
| X-9D               | 09/25/13     | 19.53                | 0.17                    | -113.1                             | 7.08    | 13.03            | 1.71             |
| X-9D               | 09/22/14     | Missing field notes  |                         |                                    |         |                  |                  |
| X-9D               | 10/01/15     | 4.496                | 0.16                    | 89.53                              | 7.24    | 12.68            | 6.59             |
| X-9D               | 09/28/16     | 4.567                | 0.12                    | 166.31                             | 7.23    | 11.2             | 1.24             |

Attachment 3  
Field Parameters  
RACER Trust  
Green Point Landfill  
Saginaw, Michigan

| Well ID | Date Sampled | Conductivity (mS/cm) | Dissolved Oxygen (mg/L) | Oxidation Reduction Potential (mV) | pH (SU) | Temperature (°C) | Turbidity (NTUs) |
|---------|--------------|----------------------|-------------------------|------------------------------------|---------|------------------|------------------|
| X-10BR  | 09/29/10     | 2.446                | 0.20                    | -101.2                             | 6.69    | 14.17            | 1.4              |
| X-10BR  | 09/22/11     | 1.692                | 0.79                    | -88.1                              | 6.87    | 13.25            | 4.8              |
| X-10BR  | 09/14/12     | 1.953                | NA <sup>2</sup>         | -91.6                              | 6.59    | 14.58            | 0.42             |
| X-10BR  | 09/24/13     | 21.55                | 0.28                    | -104.5                             | 6.40    | 14.21            | 4.89             |

**Notes:**

°C = Celsius.

mg/L = milligrams per liter.

mV = millivolts.

NTUs = Nephelometric Turbidity Units.

SU = Standard Units.

mS/cm = milliSiemens per centimeter.

NA = not applicable/not available.

1. Monitoring well MW-188S1 was sampled on October 10, 2010 but the sampling log was not found.
2. No reading due to faulty dissolved oxygen sensor.
3. Monitoring well purged dry upon sampling. Well was allowed to recharge and then a sample was collected.

# ATTACHMENT 4

Laboratory Analytical Reports



## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-70203-1

Client Project/Site: RACER Saginaw Green Pt Landfill

Revision: 1

For:

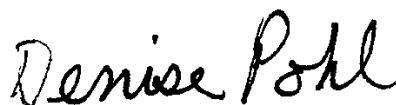
ARCADIS U.S. Inc

10559 Citation Drive

Suite 100

Brighton, Michigan 48116

Attn: Scott Clearwater



Authorized for release by:

10/31/2016 7:55:44 AM

Denise Pohl, Project Manager II

(330)966-9789

[denise.pohl@testamericainc.com](mailto:denise.pohl@testamericainc.com)

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*



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## Definitions/Glossary

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70203-1

### Qualifiers

#### GC/MS VOA

| Qualifier | Qualifier Description                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------|
| U         | Indicates the analyte was analyzed for but not detected.                                                       |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

#### Metals

| Qualifier | Qualifier Description                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------|
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| B         | Compound was found in the blank and sample.                                                                    |
| U         | Indicates the analyte was analyzed for but not detected.                                                       |

#### General Chemistry

| Qualifier | Qualifier Description                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------|
| HF        | Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.           |
| B         | Compound was found in the blank and sample.                                                                    |
| U         | Indicates the analyte was analyzed for but not detected.                                                       |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

### Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| α              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery                                                                                            |
| CFL            | Contains Free Liquid                                                                                        |
| CNF            | Contains no Free Liquid                                                                                     |
| DER            | Duplicate error ratio (normalized absolute difference)                                                      |
| Dil Fac        | Dilution Factor                                                                                             |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision level concentration                                                                                |
| MDA            | Minimum detectable activity                                                                                 |
| EDL            | Estimated Detection Limit                                                                                   |
| MDC            | Minimum detectable concentration                                                                            |
| MDL            | Method Detection Limit                                                                                      |
| ML             | Minimum Level (Dioxin)                                                                                      |
| NC             | Not Calculated                                                                                              |
| ND             | Not detected at the reporting limit (or MDL or EDL if shown)                                                |
| PQL            | Practical Quantitation Limit                                                                                |
| QC             | Quality Control                                                                                             |
| RER            | Relative error ratio                                                                                        |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)                                                         |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                         |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                       |

# Case Narrative

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70203-1

**Job ID: 240-70203-1**

**Laboratory: TestAmerica Canton**

## Narrative

### CASE NARRATIVE

**Client: ARCADIS U.S. Inc**

**Project: RACER Saginaw Green Pt Landfill**

**Report Number: 240-70203-1**

### Revised

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Revision 10/31/2016: Revision to change sample id for sample 240-70203-5 from TMW-1\_092716 to TWW-1\_092716.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

### RECEIPT

The samples were received on 9/30/2016 9:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 1.4° C, 1.6° C and 1.8° C.

### VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples TWW-1\_092716 (240-70203-5), DUP-01\_092716 (240-70203-6) and TRIPBLANK\_092716 (240-70203-7) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 10/10/2016.

Samples TWW-1\_092716 (240-70203-5)[10X] and DUP-01\_092716 (240-70203-6)[7.69X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No MS/MSD in batch 250596 due to the analysis exceeding the 12 hour QC tune time: TWW-1\_092716 (240-70203-5), DUP-01\_092716 (240-70203-6) and TRIPBLANK\_092716 (240-70203-7)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### DISSOLVED METALS (ICPMS)

# Case Narrative

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70203-1

## Job ID: 240-70203-1 (Continued)

### Laboratory: TestAmerica Canton (Continued)

Samples MW-118WT\_092716 (240-70203-1), MW-118S1\_092716 (240-70203-2), MW-117WT\_092716 (240-70203-3) and MW-117S1\_092716 (240-70203-4) were analyzed for dissolved metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were prepared on 10/03/2016 and analyzed on 10/04/2016 and 10/05/2016.

Some requested practical quantitation limits (PQLs) on the following samples fall below the laboratory's verified standard quantitation limit: MW-118WT\_092716 (240-70203-1), MW-118S1\_092716 (240-70203-2), MW-117WT\_092716 (240-70203-3) and MW-117S1\_092716 (240-70203-4). The continuing calibration blanks and method blanks may not support the lower PQL.

Barium, Iron and Manganese were detected in method blank MB 240-249537/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### TOTAL DISSOLVED SOLIDS

Samples MW-118WT\_092716 (240-70203-1), MW-118S1\_092716 (240-70203-2), MW-117WT\_092716 (240-70203-3) and MW-117S1\_092716 (240-70203-4) were analyzed for total dissolved solids in accordance with SM 2540C. The samples were analyzed on 10/04/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### ANIONS

Samples MW-118WT\_092716 (240-70203-1), MW-118S1\_092716 (240-70203-2), MW-117WT\_092716 (240-70203-3) and MW-117S1\_092716 (240-70203-4) were analyzed for anions in accordance with EPA Method 300.0. The samples were analyzed on 10/04/2016, 10/05/2016 and 10/06/2016.

Samples MW-118WT\_092716 (240-70203-1)[5X], MW-118S1\_092716 (240-70203-2)[5X], MW-117WT\_092716 (240-70203-3)[25X] and MW-117S1\_092716 (240-70203-4)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Chloride and Sulfate failed the recovery criteria for the MS/MSD of sample 240-69996-2 in batch 240-249746.

Sulfate failed the recovery criteria low for the MS of sample 240-70263-1 in batch 240-249746.

Chloride failed the recovery criteria low for the MS/MSD of sample 240-70221-3 in batch 240-249797.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### NITRATE-NITRITE AS NITROGEN

Samples MW-118WT\_092716 (240-70203-1), MW-118S1\_092716 (240-70203-2), MW-117WT\_092716 (240-70203-3) and MW-117S1\_092716 (240-70203-4) were analyzed for nitrate-nitrite as nitrogen in accordance with EPA Method 353.2. The samples were analyzed on 10/05/2016.

Nitrate Nitrite as N failed the recovery criteria low for the MS/MSD of sample 240-70225-1 in batch 240-250127.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### DISSOLVED CYANIDE

Samples MW-118WT\_092716 (240-70203-1), MW-118S1\_092716 (240-70203-2), MW-117WT\_092716 (240-70203-3) and MW-117S1\_092716 (240-70203-4) were analyzed for dissolved cyanide in accordance with EPA SW-846 Method 9012A. The samples were prepared and analyzed on 10/05/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### TOTAL CYANIDE

Samples MW-118WT\_092716 (240-70203-1), MW-118S1\_092716 (240-70203-2), MW-117WT\_092716 (240-70203-3) and

## Case Narrative

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70203-1

### Job ID: 240-70203-1 (Continued)

#### Laboratory: TestAmerica Canton (Continued)

MW-117S1\_092716 (240-70203-4) were analyzed for total cyanide in accordance with EPA SW-846 Method 9012A. The samples were prepared and analyzed on 10/05/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### PH

Samples MW-118WT\_092716 (240-70203-1), MW-118S1\_092716 (240-70203-2), MW-117WT\_092716 (240-70203-3) and MW-117S1\_092716 (240-70203-4) were analyzed for pH in accordance with SM 4500 H+ B. The samples were analyzed on 09/30/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### AMMONIA

Samples MW-118WT\_092716 (240-70203-1), MW-118S1\_092716 (240-70203-2), MW-117WT\_092716 (240-70203-3) and MW-117S1\_092716 (240-70203-4) were analyzed for ammonia in accordance with SM 4500 NH3 D. The samples were analyzed on 10/03/2016.

Ammonia (as N) was detected in method blank MB 240-249583/7 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Samples MW-118WT\_092716 (240-70203-1)[10X], MW-118S1\_092716 (240-70203-2)[2X], MW-117WT\_092716 (240-70203-3)[20X] and MW-117S1\_092716 (240-70203-4)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

## Method Summary

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70203-1

| Method         | Method Description                 | Protocol | Laboratory |
|----------------|------------------------------------|----------|------------|
| 8260B          | Volatile Organic Compounds (GC/MS) | SW846    | TAL CAN    |
| 6020           | Metals (ICP/MS)                    | SW846    | TAL CAN    |
| 300.0          | Anions, Ion Chromatography         | MCAWW    | TAL CAN    |
| 353.2          | Nitrogen, Nitrate-Nitrite          | MCAWW    | TAL CAN    |
| 4500 H+ B-2000 | pH                                 | SM       | TAL CAN    |
| 9012A          | Cyanide, Total and/or Amenable     | SW846    | TAL CAN    |
| SM 2540C       | Solids, Total Dissolved (TDS)      | SM       | TAL CAN    |
| SM 4500 NH3 D  | Ammonia                            | SM       | TAL CAN    |

### Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

### Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

## Sample Summary

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70203-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 240-70203-1   | MW-118WT_092716  | Water  | 09/27/16 13:00 | 09/30/16 09:10 |
| 240-70203-2   | MW-118S1_092716  | Water  | 09/27/16 13:20 | 09/30/16 09:10 |
| 240-70203-3   | MW-117WT_092716  | Water  | 09/27/16 15:10 | 09/30/16 09:10 |
| 240-70203-4   | MW-117S1_092716  | Water  | 09/27/16 15:30 | 09/30/16 09:10 |
| 240-70203-5   | TWW-1_092716     | Water  | 09/27/16 17:05 | 09/30/16 09:10 |
| 240-70203-6   | DUP-01_092716    | Water  | 09/27/16 00:00 | 09/30/16 09:10 |
| 240-70203-7   | TRIPBLANK_092716 | Water  | 09/27/16 00:00 | 09/30/16 09:10 |



# Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70203-1

**Client Sample ID: MW-118WT\_092716**

**Lab Sample ID: 240-70203-1**

**Date Collected: 09/27/16 13:00**

**Matrix: Water**

**Date Received: 09/30/16 09:10**

## Method: 6020 - Metals (ICP/MS) - Dissolved

| Analyte   | Result | Qualifier | RL   | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Arsenic   | 1.0    | J         | 2.0  | 0.35 | ug/L |   | 10/03/16 14:00 | 10/04/16 23:16 | 1       |
| Barium    | 300    | B         | 5.0  | 0.52 | ug/L |   | 10/03/16 14:00 | 10/04/16 23:16 | 1       |
| Iron      | 8500   | B         | 50   | 5.3  | ug/L |   | 10/03/16 14:00 | 10/04/16 23:16 | 1       |
| Manganese | 300    | B         | 2.0  | 0.25 | ug/L |   | 10/03/16 14:00 | 10/04/16 23:16 | 1       |
| Selenium  | 1.0    | J         | 5.0  | 0.48 | ug/L |   | 10/03/16 14:00 | 10/04/16 23:16 | 1       |
| Sodium    | 82000  |           | 1000 | 14   | ug/L |   | 10/03/16 14:00 | 10/04/16 23:16 | 1       |

## General Chemistry

| Analyte                | Result | Qualifier | RL    | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Chloride               | 240    |           | 5.0   | 2.0    | mg/L |   |                | 10/05/16 19:57 | 5       |
| Sulfate                | 6.1    |           | 1.0   | 0.13   | mg/L |   |                | 10/06/16 19:34 | 1       |
| Nitrate Nitrite as N   | 0.050  | U         | 0.050 | 0.0073 | mg/L |   |                | 10/05/16 20:30 | 1       |
| pH                     | 7.0    | HF        | 0.1   | 0.1    | SU   |   |                | 09/30/16 12:23 | 1       |
| Cyanide, Total         | 0.010  | U         | 0.010 | 0.0050 | mg/L |   | 10/05/16 14:17 | 10/05/16 16:04 | 1       |
| Total Dissolved Solids | 900    |           | 20    | 15     | mg/L |   |                | 10/04/16 16:03 | 1       |
| Ammonia (as N)         | 37     | B         | 2.0   | 0.33   | mg/L |   |                | 10/03/16 13:07 | 10      |

## General Chemistry - Dissolved

| Analyte        | Result | Qualifier | RL    | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------|--------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Cyanide, Total | 0.010  | U         | 0.010 | 0.0050 | mg/L |   | 10/05/16 14:17 | 10/05/16 16:04 | 1       |

TestAmerica Canton

# Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70203-1

**Client Sample ID: MW-118S1\_092716**

**Lab Sample ID: 240-70203-2**

**Date Collected: 09/27/16 13:20**

**Matrix: Water**

**Date Received: 09/30/16 09:10**

## Method: 6020 - Metals (ICP/MS) - Dissolved

| Analyte   | Result | Qualifier | RL   | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Arsenic   | 1.9    | J         | 2.0  | 0.35 | ug/L |   | 10/03/16 14:00 | 10/04/16 23:20 | 1       |
| Barium    | 850    | B         | 5.0  | 0.52 | ug/L |   | 10/03/16 14:00 | 10/04/16 23:20 | 1       |
| Iron      | 8700   | B         | 50   | 5.3  | ug/L |   | 10/03/16 14:00 | 10/04/16 23:20 | 1       |
| Manganese | 360    | B         | 2.0  | 0.25 | ug/L |   | 10/03/16 14:00 | 10/04/16 23:20 | 1       |
| Selenium  | 1.0    | J         | 5.0  | 0.48 | ug/L |   | 10/03/16 14:00 | 10/04/16 23:20 | 1       |
| Sodium    | 130000 |           | 1000 | 14   | ug/L |   | 10/03/16 14:00 | 10/04/16 23:20 | 1       |

## General Chemistry

| Analyte                | Result | Qualifier | RL    | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Chloride               | 290    |           | 5.0   | 2.0    | mg/L |   |                | 10/05/16 20:37 | 5       |
| Sulfate                | 1.0    | U         | 1.0   | 0.13   | mg/L |   |                | 10/06/16 20:35 | 1       |
| Nitrate Nitrite as N   | 0.050  | U         | 0.050 | 0.0073 | mg/L |   |                | 10/05/16 20:33 | 1       |
| pH                     | 7.0    | HF        | 0.1   | 0.1    | SU   |   |                | 09/30/16 12:31 | 1       |
| Cyanide, Total         | 0.010  | U         | 0.010 | 0.0050 | mg/L |   | 10/05/16 14:17 | 10/05/16 16:09 | 1       |
| Total Dissolved Solids | 930    |           | 20    | 15     | mg/L |   |                | 10/04/16 16:03 | 1       |
| Ammonia (as N)         | 9.9    | B         | 0.40  | 0.066  | mg/L |   |                | 10/03/16 13:13 | 2       |

## General Chemistry - Dissolved

| Analyte        | Result | Qualifier | RL    | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------|--------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Cyanide, Total | 0.010  | U         | 0.010 | 0.0050 | mg/L |   | 10/05/16 14:17 | 10/05/16 16:04 | 1       |

TestAmerica Canton

# Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70203-1

**Client Sample ID: MW-117WT\_092716**

**Lab Sample ID: 240-70203-3**

**Date Collected: 09/27/16 15:10**

**Matrix: Water**

**Date Received: 09/30/16 09:10**

## Method: 6020 - Metals (ICP/MS) - Dissolved

| Analyte   | Result | Qualifier | RL   | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Arsenic   | 1.6    | J         | 2.0  | 0.35 | ug/L |   | 10/03/16 14:00 | 10/04/16 23:33 | 1       |
| Barium    | 1600   | B         | 5.0  | 0.52 | ug/L |   | 10/03/16 14:00 | 10/04/16 23:33 | 1       |
| Iron      | 96000  | B         | 50   | 5.3  | ug/L |   | 10/03/16 14:00 | 10/04/16 23:33 | 1       |
| Manganese | 3400   | B         | 2.0  | 0.25 | ug/L |   | 10/03/16 14:00 | 10/04/16 23:33 | 1       |
| Selenium  | 1.5    | J         | 5.0  | 0.48 | ug/L |   | 10/03/16 14:00 | 10/04/16 23:33 | 1       |
| Sodium    | 470000 |           | 5000 | 71   | ug/L |   | 10/03/16 14:00 | 10/05/16 23:09 | 5       |

## General Chemistry

| Analyte                | Result | Qualifier | RL    | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Chloride               | 3500   |           | 25    | 10     | mg/L |   |                | 10/04/16 20:54 | 25      |
| Sulfate                | 0.25   | J         | 1.0   | 0.13   | mg/L |   |                | 10/04/16 20:38 | 1       |
| Nitrate Nitrite as N   | 0.050  | U         | 0.050 | 0.0073 | mg/L |   |                | 10/05/16 20:34 | 1       |
| pH                     | 6.5    | HF        | 0.1   | 0.1    | SU   |   |                | 09/30/16 12:38 | 1       |
| Cyanide, Total         | 0.010  | U         | 0.010 | 0.0050 | mg/L |   | 10/05/16 14:17 | 10/05/16 16:09 | 1       |
| Total Dissolved Solids | 4800   |           | 50    | 37     | mg/L |   |                | 10/04/16 16:03 | 1       |
| Ammonia (as N)         | 81     | B         | 4.0   | 0.66   | mg/L |   |                | 10/03/16 13:22 | 20      |

## General Chemistry - Dissolved

| Analyte        | Result | Qualifier | RL    | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------|--------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Cyanide, Total | 0.010  | U         | 0.010 | 0.0050 | mg/L |   | 10/05/16 14:17 | 10/05/16 16:04 | 1       |

TestAmerica Canton

# Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70203-1

**Client Sample ID: MW-117S1\_092716**

**Lab Sample ID: 240-70203-4**

**Date Collected: 09/27/16 15:30**

**Matrix: Water**

**Date Received: 09/30/16 09:10**

## Method: 6020 - Metals (ICP/MS) - Dissolved

| Analyte   | Result | Qualifier | RL   | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Arsenic   | 1.9    | J         | 2.0  | 0.35 | ug/L |   | 10/03/16 14:00 | 10/04/16 23:37 | 1       |
| Barium    | 1500   | B         | 5.0  | 0.52 | ug/L |   | 10/03/16 14:00 | 10/04/16 23:37 | 1       |
| Iron      | 9000   | B         | 50   | 5.3  | ug/L |   | 10/03/16 14:00 | 10/04/16 23:37 | 1       |
| Manganese | 270    | B         | 2.0  | 0.25 | ug/L |   | 10/03/16 14:00 | 10/04/16 23:37 | 1       |
| Selenium  | 0.57   | J         | 5.0  | 0.48 | ug/L |   | 10/03/16 14:00 | 10/04/16 23:37 | 1       |
| Sodium    | 120000 |           | 1000 | 14   | ug/L |   | 10/03/16 14:00 | 10/04/16 23:37 | 1       |

## General Chemistry

| Analyte                | Result | Qualifier | RL    | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Chloride               | 250    |           | 5.0   | 2.0    | mg/L |   |                | 10/04/16 20:22 | 5       |
| Sulfate                | 1.0    | U         | 1.0   | 0.13   | mg/L |   |                | 10/04/16 20:05 | 1       |
| Nitrate Nitrite as N   | 0.050  | U         | 0.050 | 0.0073 | mg/L |   |                | 10/05/16 20:35 | 1       |
| pH                     | 7.0    | HF        | 0.1   | 0.1    | SU   |   |                | 09/30/16 12:46 | 1       |
| Cyanide, Total         | 0.010  | U         | 0.010 | 0.0050 | mg/L |   | 10/05/16 14:17 | 10/05/16 16:09 | 1       |
| Total Dissolved Solids | 870    |           | 20    | 15     | mg/L |   |                | 10/04/16 16:03 | 1       |
| Ammonia (as N)         | 10     | B         | 0.40  | 0.066  | mg/L |   |                | 10/03/16 13:51 | 2       |

## General Chemistry - Dissolved

| Analyte        | Result | Qualifier | RL    | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------|--------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Cyanide, Total | 0.010  | U         | 0.010 | 0.0050 | mg/L |   | 10/05/16 14:17 | 10/05/16 16:04 | 1       |

TestAmerica Canton

# Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70203-1

**Client Sample ID: TWW-1\_092716**

**Lab Sample ID: 240-70203-5**

**Date Collected: 09/27/16 17:05**

**Matrix: Water**

**Date Received: 09/30/16 09:10**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte                               | Result       | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------------|-----------|-----|-----|------|---|----------|----------------|---------|
| Acetone                               | 100          | U         | 100 | 9.4 | ug/L |   |          | 10/10/16 15:51 | 10      |
| Benzene                               | 10           | U         | 10  | 3.5 | ug/L |   |          | 10/10/16 15:51 | 10      |
| Dichlorobromomethane                  | 10           | U         | 10  | 2.9 | ug/L |   |          | 10/10/16 15:51 | 10      |
| Bromoform                             | 10           | U         | 10  | 5.6 | ug/L |   |          | 10/10/16 15:51 | 10      |
| Bromomethane                          | 10           | U         | 10  | 4.4 | ug/L |   |          | 10/10/16 15:51 | 10      |
| 2-Butanone (MEK)                      | 100          | U         | 100 | 5.3 | ug/L |   |          | 10/10/16 15:51 | 10      |
| Carbon disulfide                      | 10           | U         | 10  | 3.8 | ug/L |   |          | 10/10/16 15:51 | 10      |
| Carbon tetrachloride                  | 10           | U         | 10  | 4.3 | ug/L |   |          | 10/10/16 15:51 | 10      |
| Chlorobenzene                         | 10           | U         | 10  | 2.5 | ug/L |   |          | 10/10/16 15:51 | 10      |
| Chloroethane                          | 10           | U         | 10  | 3.2 | ug/L |   |          | 10/10/16 15:51 | 10      |
| Chloroform                            | 10           | U         | 10  | 2.5 | ug/L |   |          | 10/10/16 15:51 | 10      |
| Chloromethane                         | 10           | U         | 10  | 4.4 | ug/L |   |          | 10/10/16 15:51 | 10      |
| 1,1-Dichloroethane                    | 10           | U         | 10  | 3.0 | ug/L |   |          | 10/10/16 15:51 | 10      |
| 1,2-Dichloroethane                    | 10           | U         | 10  | 2.3 | ug/L |   |          | 10/10/16 15:51 | 10      |
| 1,1-Dichloroethene                    | 10           | U         | 10  | 4.5 | ug/L |   |          | 10/10/16 15:51 | 10      |
| 1,2-Dichloropropane                   | 10           | U         | 10  | 2.5 | ug/L |   |          | 10/10/16 15:51 | 10      |
| cis-1,3-Dichloropropene               | 10           | U         | 10  | 4.6 | ug/L |   |          | 10/10/16 15:51 | 10      |
| trans-1,3-Dichloropropene             | 10           | U         | 10  | 5.6 | ug/L |   |          | 10/10/16 15:51 | 10      |
| Ethylbenzene                          | 10           | U         | 10  | 2.5 | ug/L |   |          | 10/10/16 15:51 | 10      |
| 2-Hexanone                            | 100          | U         | 100 | 4.8 | ug/L |   |          | 10/10/16 15:51 | 10      |
| Methylene Chloride                    | 10           | U         | 10  | 3.3 | ug/L |   |          | 10/10/16 15:51 | 10      |
| 4-Methyl-2-pentanone (MIBK)           | 100          | U         | 100 | 9.9 | ug/L |   |          | 10/10/16 15:51 | 10      |
| Styrene                               | 10           | U         | 10  | 4.5 | ug/L |   |          | 10/10/16 15:51 | 10      |
| 1,1,2,2-Tetrachloroethane             | 10           | U         | 10  | 2.2 | ug/L |   |          | 10/10/16 15:51 | 10      |
| Tetrachloroethene                     | 10           | U         | 10  | 3.1 | ug/L |   |          | 10/10/16 15:51 | 10      |
| Toluene                               | 10           | U         | 10  | 2.3 | ug/L |   |          | 10/10/16 15:51 | 10      |
| Trichloroethene                       | 10           | U         | 10  | 2.2 | ug/L |   |          | 10/10/16 15:51 | 10      |
| <b>Vinyl chloride</b>                 | <b>140</b>   |           | 10  | 2.9 | ug/L |   |          | 10/10/16 15:51 | 10      |
| Xylenes, Total                        | 20           | U         | 20  | 5.2 | ug/L |   |          | 10/10/16 15:51 | 10      |
| 1,1,1-Trichloroethane                 | 10           | U         | 10  | 4.4 | ug/L |   |          | 10/10/16 15:51 | 10      |
| 1,1,2-Trichloroethane                 | 10           | U         | 10  | 2.4 | ug/L |   |          | 10/10/16 15:51 | 10      |
| Cyclohexane                           | 10           | U         | 10  | 4.5 | ug/L |   |          | 10/10/16 15:51 | 10      |
| 1,2-Dibromo-3-Chloropropane           | 20           | U         | 20  | 8.2 | ug/L |   |          | 10/10/16 15:51 | 10      |
| Ethylene Dibromide                    | 10           | U         | 10  | 3.2 | ug/L |   |          | 10/10/16 15:51 | 10      |
| Dichlorodifluoromethane               | 10           | U         | 10  | 3.2 | ug/L |   |          | 10/10/16 15:51 | 10      |
| <b>cis-1,2-Dichloroethene</b>         | <b>2.9 J</b> |           | 10  | 2.6 | ug/L |   |          | 10/10/16 15:51 | 10      |
| trans-1,2-Dichloroethene              | 10           | U         | 10  | 3.0 | ug/L |   |          | 10/10/16 15:51 | 10      |
| Isopropylbenzene                      | 10           | U         | 10  | 3.5 | ug/L |   |          | 10/10/16 15:51 | 10      |
| Methyl acetate                        | 100          | U         | 100 | 23  | ug/L |   |          | 10/10/16 15:51 | 10      |
| Methyl tert-butyl ether               | 10           | U         | 10  | 2.0 | ug/L |   |          | 10/10/16 15:51 | 10      |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 10           | U         | 10  | 4.5 | ug/L |   |          | 10/10/16 15:51 | 10      |
| <b>1,2,4-Trichlorobenzene</b>         | <b>17</b>    |           | 10  | 3.2 | ug/L |   |          | 10/10/16 15:51 | 10      |
| 1,2-Dichlorobenzene                   | 10           | U         | 10  | 2.5 | ug/L |   |          | 10/10/16 15:51 | 10      |
| <b>1,3-Dichlorobenzene</b>            | <b>2.7 J</b> |           | 10  | 1.9 | ug/L |   |          | 10/10/16 15:51 | 10      |
| <b>1,4-Dichlorobenzene</b>            | <b>3.3 J</b> |           | 10  | 2.7 | ug/L |   |          | 10/10/16 15:51 | 10      |
| Trichlorofluoromethane                | 10           | U         | 10  | 4.9 | ug/L |   |          | 10/10/16 15:51 | 10      |
| Chlorodibromomethane                  | 10           | U         | 10  | 4.3 | ug/L |   |          | 10/10/16 15:51 | 10      |
| Methylcyclohexane                     | 10           | U         | 10  | 4.3 | ug/L |   |          | 10/10/16 15:51 | 10      |

TestAmerica Canton

## Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70203-1

**Client Sample ID: TWW-1\_092716**

**Date Collected: 09/27/16 17:05**

**Date Received: 09/30/16 09:10**

**Lab Sample ID: 240-70203-5**

**Matrix: Water**

| <i>Surrogate</i>             | <i>%Recovery</i> | <i>Qualifier</i> | <i>Limits</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Dil Fac</i> |
|------------------------------|------------------|------------------|---------------|-----------------|-----------------|----------------|
| 1,2-Dichloroethane-d4 (Surr) | 96               |                  | 63 - 132      |                 | 10/10/16 15:51  | 10             |
| 4-Bromofluorobenzene (Surr)  | 110              |                  | 73 - 120      |                 | 10/10/16 15:51  | 10             |
| Toluene-d8 (Surr)            | 102              |                  | 73 - 124      |                 | 10/10/16 15:51  | 10             |
| Dibromofluoromethane (Surr)  | 102              |                  | 80 - 120      |                 | 10/10/16 15:51  | 10             |

# Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70203-1

**Client Sample ID: DUP-01\_092716**

**Lab Sample ID: 240-70203-6**

**Date Collected: 09/27/16 00:00**

**Matrix: Water**

**Date Received: 09/30/16 09:10**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte                               | Result       | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------------|-----------|-----|-----|------|---|----------|----------------|---------|
| Acetone                               | 77           | U         | 77  | 7.2 | ug/L |   |          | 10/10/16 16:14 | 7.69    |
| Benzene                               | 7.7          | U         | 7.7 | 2.7 | ug/L |   |          | 10/10/16 16:14 | 7.69    |
| Dichlorobromomethane                  | 7.7          | U         | 7.7 | 2.2 | ug/L |   |          | 10/10/16 16:14 | 7.69    |
| Bromoform                             | 7.7          | U         | 7.7 | 4.3 | ug/L |   |          | 10/10/16 16:14 | 7.69    |
| Bromomethane                          | 7.7          | U         | 7.7 | 3.4 | ug/L |   |          | 10/10/16 16:14 | 7.69    |
| 2-Butanone (MEK)                      | 77           | U         | 77  | 4.1 | ug/L |   |          | 10/10/16 16:14 | 7.69    |
| Carbon disulfide                      | 7.7          | U         | 7.7 | 2.9 | ug/L |   |          | 10/10/16 16:14 | 7.69    |
| Carbon tetrachloride                  | 7.7          | U         | 7.7 | 3.3 | ug/L |   |          | 10/10/16 16:14 | 7.69    |
| Chlorobenzene                         | 7.7          | U         | 7.7 | 1.9 | ug/L |   |          | 10/10/16 16:14 | 7.69    |
| Chloroethane                          | 7.7          | U         | 7.7 | 2.5 | ug/L |   |          | 10/10/16 16:14 | 7.69    |
| Chloroform                            | 7.7          | U         | 7.7 | 1.9 | ug/L |   |          | 10/10/16 16:14 | 7.69    |
| Chloromethane                         | 7.7          | U         | 7.7 | 3.4 | ug/L |   |          | 10/10/16 16:14 | 7.69    |
| 1,1-Dichloroethane                    | 7.7          | U         | 7.7 | 2.3 | ug/L |   |          | 10/10/16 16:14 | 7.69    |
| 1,2-Dichloroethane                    | 7.7          | U         | 7.7 | 1.8 | ug/L |   |          | 10/10/16 16:14 | 7.69    |
| 1,1-Dichloroethene                    | 7.7          | U         | 7.7 | 3.5 | ug/L |   |          | 10/10/16 16:14 | 7.69    |
| 1,2-Dichloropropane                   | 7.7          | U         | 7.7 | 1.9 | ug/L |   |          | 10/10/16 16:14 | 7.69    |
| cis-1,3-Dichloropropene               | 7.7          | U         | 7.7 | 3.5 | ug/L |   |          | 10/10/16 16:14 | 7.69    |
| trans-1,3-Dichloropropene             | 7.7          | U         | 7.7 | 4.3 | ug/L |   |          | 10/10/16 16:14 | 7.69    |
| Ethylbenzene                          | 7.7          | U         | 7.7 | 1.9 | ug/L |   |          | 10/10/16 16:14 | 7.69    |
| 2-Hexanone                            | 77           | U         | 77  | 3.7 | ug/L |   |          | 10/10/16 16:14 | 7.69    |
| Methylene Chloride                    | 7.7          | U         | 7.7 | 2.5 | ug/L |   |          | 10/10/16 16:14 | 7.69    |
| 4-Methyl-2-pentanone (MIBK)           | 77           | U         | 77  | 7.6 | ug/L |   |          | 10/10/16 16:14 | 7.69    |
| Styrene                               | 7.7          | U         | 7.7 | 3.5 | ug/L |   |          | 10/10/16 16:14 | 7.69    |
| 1,1,2,2-Tetrachloroethane             | 7.7          | U         | 7.7 | 1.7 | ug/L |   |          | 10/10/16 16:14 | 7.69    |
| Tetrachloroethene                     | 7.7          | U         | 7.7 | 2.4 | ug/L |   |          | 10/10/16 16:14 | 7.69    |
| Toluene                               | 7.7          | U         | 7.7 | 1.8 | ug/L |   |          | 10/10/16 16:14 | 7.69    |
| Trichloroethene                       | 7.7          | U         | 7.7 | 1.7 | ug/L |   |          | 10/10/16 16:14 | 7.69    |
| <b>Vinyl chloride</b>                 | <b>130</b>   |           | 7.7 | 2.2 | ug/L |   |          | 10/10/16 16:14 | 7.69    |
| Xylenes, Total                        | 15           | U         | 15  | 4.0 | ug/L |   |          | 10/10/16 16:14 | 7.69    |
| 1,1,1-Trichloroethane                 | 7.7          | U         | 7.7 | 3.4 | ug/L |   |          | 10/10/16 16:14 | 7.69    |
| 1,1,2-Trichloroethane                 | 7.7          | U         | 7.7 | 1.8 | ug/L |   |          | 10/10/16 16:14 | 7.69    |
| Cyclohexane                           | 7.7          | U         | 7.7 | 3.5 | ug/L |   |          | 10/10/16 16:14 | 7.69    |
| 1,2-Dibromo-3-Chloropropane           | 15           | U         | 15  | 6.3 | ug/L |   |          | 10/10/16 16:14 | 7.69    |
| Ethylene Dibromide                    | 7.7          | U         | 7.7 | 2.5 | ug/L |   |          | 10/10/16 16:14 | 7.69    |
| Dichlorodifluoromethane               | 7.7          | U         | 7.7 | 2.5 | ug/L |   |          | 10/10/16 16:14 | 7.69    |
| <b>cis-1,2-Dichloroethene</b>         | <b>3.0 J</b> |           | 7.7 | 2.0 | ug/L |   |          | 10/10/16 16:14 | 7.69    |
| trans-1,2-Dichloroethene              | 7.7          | U         | 7.7 | 2.3 | ug/L |   |          | 10/10/16 16:14 | 7.69    |
| Isopropylbenzene                      | 7.7          | U         | 7.7 | 2.7 | ug/L |   |          | 10/10/16 16:14 | 7.69    |
| Methyl acetate                        | 77           | U         | 77  | 17  | ug/L |   |          | 10/10/16 16:14 | 7.69    |
| Methyl tert-butyl ether               | 7.7          | U         | 7.7 | 1.5 | ug/L |   |          | 10/10/16 16:14 | 7.69    |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 7.7          | U         | 7.7 | 3.5 | ug/L |   |          | 10/10/16 16:14 | 7.69    |
| 1,2,4-Trichlorobenzene                | 7.7          | U         | 7.7 | 2.5 | ug/L |   |          | 10/10/16 16:14 | 7.69    |
| 1,2-Dichlorobenzene                   | 7.7          | U         | 7.7 | 1.9 | ug/L |   |          | 10/10/16 16:14 | 7.69    |
| 1,3-Dichlorobenzene                   | 7.7          | U         | 7.7 | 1.5 | ug/L |   |          | 10/10/16 16:14 | 7.69    |
| 1,4-Dichlorobenzene                   | 7.7          | U         | 7.7 | 2.1 | ug/L |   |          | 10/10/16 16:14 | 7.69    |
| Trichlorofluoromethane                | 7.7          | U         | 7.7 | 3.8 | ug/L |   |          | 10/10/16 16:14 | 7.69    |
| Chlorodibromomethane                  | 7.7          | U         | 7.7 | 3.3 | ug/L |   |          | 10/10/16 16:14 | 7.69    |
| Methylcyclohexane                     | 7.7          | U         | 7.7 | 3.3 | ug/L |   |          | 10/10/16 16:14 | 7.69    |

TestAmerica Canton



## Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70203-1

**Client Sample ID: DUP-01\_092716**

**Date Collected: 09/27/16 00:00**

**Date Received: 09/30/16 09:10**

**Lab Sample ID: 240-70203-6**

**Matrix: Water**

| <i>Surrogate</i>             | <i>%Recovery</i> | <i>Qualifier</i> | <i>Limits</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Dil Fac</i> |
|------------------------------|------------------|------------------|---------------|-----------------|-----------------|----------------|
| 1,2-Dichloroethane-d4 (Surr) | 96               |                  | 63 - 132      |                 | 10/10/16 16:14  | 7.69           |
| 4-Bromofluorobenzene (Surr)  | 110              |                  | 73 - 120      |                 | 10/10/16 16:14  | 7.69           |
| Toluene-d8 (Surr)            | 102              |                  | 73 - 124      |                 | 10/10/16 16:14  | 7.69           |
| Dibromofluoromethane (Surr)  | 104              |                  | 80 - 120      |                 | 10/10/16 16:14  | 7.69           |

# Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70203-1

**Client Sample ID: TRIPBLANK\_092716**

**Lab Sample ID: 240-70203-7**

**Date Collected: 09/27/16 00:00**

**Matrix: Water**

**Date Received: 09/30/16 09:10**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte                               | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Acetone                               | 2.9    | J         | 10  | 0.94 | ug/L |   |          | 10/10/16 16:36 | 1       |
| Benzene                               | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 10/10/16 16:36 | 1       |
| Dichlorobromomethane                  | 1.0    | U         | 1.0 | 0.29 | ug/L |   |          | 10/10/16 16:36 | 1       |
| Bromoform                             | 1.0    | U         | 1.0 | 0.56 | ug/L |   |          | 10/10/16 16:36 | 1       |
| Bromomethane                          | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 10/10/16 16:36 | 1       |
| 2-Butanone (MEK)                      | 10     | U         | 10  | 0.53 | ug/L |   |          | 10/10/16 16:36 | 1       |
| Carbon disulfide                      | 1.0    | U         | 1.0 | 0.38 | ug/L |   |          | 10/10/16 16:36 | 1       |
| Carbon tetrachloride                  | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 10/10/16 16:36 | 1       |
| Chlorobenzene                         | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 10/10/16 16:36 | 1       |
| Chloroethane                          | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 10/10/16 16:36 | 1       |
| Chloroform                            | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 10/10/16 16:36 | 1       |
| Chloromethane                         | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 10/10/16 16:36 | 1       |
| 1,1-Dichloroethane                    | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/10/16 16:36 | 1       |
| 1,2-Dichloroethane                    | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/10/16 16:36 | 1       |
| 1,1-Dichloroethene                    | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 10/10/16 16:36 | 1       |
| 1,2-Dichloropropane                   | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 10/10/16 16:36 | 1       |
| cis-1,3-Dichloropropene               | 1.0    | U         | 1.0 | 0.46 | ug/L |   |          | 10/10/16 16:36 | 1       |
| trans-1,3-Dichloropropene             | 1.0    | U         | 1.0 | 0.56 | ug/L |   |          | 10/10/16 16:36 | 1       |
| Ethylbenzene                          | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 10/10/16 16:36 | 1       |
| 2-Hexanone                            | 10     | U         | 10  | 0.48 | ug/L |   |          | 10/10/16 16:36 | 1       |
| Methylene Chloride                    | 1.0    | U         | 1.0 | 0.33 | ug/L |   |          | 10/10/16 16:36 | 1       |
| 4-Methyl-2-pentanone (MIBK)           | 10     | U         | 10  | 0.99 | ug/L |   |          | 10/10/16 16:36 | 1       |
| Styrene                               | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 10/10/16 16:36 | 1       |
| 1,1,2,2-Tetrachloroethane             | 1.0    | U         | 1.0 | 0.22 | ug/L |   |          | 10/10/16 16:36 | 1       |
| Tetrachloroethene                     | 1.0    | U         | 1.0 | 0.31 | ug/L |   |          | 10/10/16 16:36 | 1       |
| Toluene                               | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/10/16 16:36 | 1       |
| Trichloroethene                       | 1.0    | U         | 1.0 | 0.22 | ug/L |   |          | 10/10/16 16:36 | 1       |
| Vinyl chloride                        | 1.0    | U         | 1.0 | 0.29 | ug/L |   |          | 10/10/16 16:36 | 1       |
| Xylenes, Total                        | 2.0    | U         | 2.0 | 0.52 | ug/L |   |          | 10/10/16 16:36 | 1       |
| 1,1,1-Trichloroethane                 | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 10/10/16 16:36 | 1       |
| 1,1,2-Trichloroethane                 | 1.0    | U         | 1.0 | 0.24 | ug/L |   |          | 10/10/16 16:36 | 1       |
| Cyclohexane                           | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 10/10/16 16:36 | 1       |
| 1,2-Dibromo-3-Chloropropane           | 2.0    | U         | 2.0 | 0.82 | ug/L |   |          | 10/10/16 16:36 | 1       |
| Ethylene Dibromide                    | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 10/10/16 16:36 | 1       |
| Dichlorodifluoromethane               | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 10/10/16 16:36 | 1       |
| cis-1,2-Dichloroethene                | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 10/10/16 16:36 | 1       |
| trans-1,2-Dichloroethene              | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/10/16 16:36 | 1       |
| Isopropylbenzene                      | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 10/10/16 16:36 | 1       |
| Methyl acetate                        | 10     | U         | 10  | 2.3  | ug/L |   |          | 10/10/16 16:36 | 1       |
| Methyl tert-butyl ether               | 1.0    | U         | 1.0 | 0.20 | ug/L |   |          | 10/10/16 16:36 | 1       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 10/10/16 16:36 | 1       |
| 1,2,4-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 10/10/16 16:36 | 1       |
| 1,2-Dichlorobenzene                   | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 10/10/16 16:36 | 1       |
| 1,3-Dichlorobenzene                   | 1.0    | U         | 1.0 | 0.19 | ug/L |   |          | 10/10/16 16:36 | 1       |
| 1,4-Dichlorobenzene                   | 1.0    | U         | 1.0 | 0.27 | ug/L |   |          | 10/10/16 16:36 | 1       |
| Trichlorofluoromethane                | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 10/10/16 16:36 | 1       |
| Chlorodibromomethane                  | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 10/10/16 16:36 | 1       |
| Methylcyclohexane                     | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 10/10/16 16:36 | 1       |

TestAmerica Canton

## Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70203-1

**Client Sample ID: TRIPBLANK\_092716**

**Lab Sample ID: 240-70203-7**

**Date Collected: 09/27/16 00:00**

**Matrix: Water**

**Date Received: 09/30/16 09:10**

| <i>Surrogate</i>             | <i>%Recovery</i> | <i>Qualifier</i> | <i>Limits</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Dil Fac</i> |
|------------------------------|------------------|------------------|---------------|-----------------|-----------------|----------------|
| 1,2-Dichloroethane-d4 (Surr) | 99               |                  | 63 - 132      |                 | 10/10/16 16:36  | 1              |
| 4-Bromofluorobenzene (Surr)  | 113              |                  | 73 - 120      |                 | 10/10/16 16:36  | 1              |
| Toluene-d8 (Surr)            | 105              |                  | 73 - 124      |                 | 10/10/16 16:36  | 1              |
| Dibromofluoromethane (Surr)  | 103              |                  | 80 - 120      |                 | 10/10/16 16:36  | 1              |

# Surrogate Summary

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70203-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID    | Client Sample ID   | 12DCE<br>(63-132) | BFB<br>(73-120) | TOL<br>(73-124) | DBFM<br>(80-120) |
|------------------|--------------------|-------------------|-----------------|-----------------|------------------|
| 240-70203-5      | TWW-1_092716       | 96                | 110             | 102             | 102              |
| 240-70203-6      | DUP-01_092716      | 96                | 110             | 102             | 104              |
| 240-70203-7      | TRIPBLANK_092716   | 99                | 113             | 105             | 103              |
| LCS 240-250596/4 | Lab Control Sample | 97                | 118             | 107             | 106              |
| MB 240-250596/7  | Method Blank       | 98                | 112             | 105             | 104              |

### Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

# QC Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70203-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-250596/7

Matrix: Water

Analysis Batch: 250596

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                               | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| Acetone                               | 10        | U            | 10  | 0.94 | ug/L |   |          | 10/10/16 11:43 | 1       |
| Benzene                               | 1.0       | U            | 1.0 | 0.35 | ug/L |   |          | 10/10/16 11:43 | 1       |
| Dichlorobromomethane                  | 1.0       | U            | 1.0 | 0.29 | ug/L |   |          | 10/10/16 11:43 | 1       |
| Bromoform                             | 1.0       | U            | 1.0 | 0.56 | ug/L |   |          | 10/10/16 11:43 | 1       |
| Bromomethane                          | 1.0       | U            | 1.0 | 0.44 | ug/L |   |          | 10/10/16 11:43 | 1       |
| 2-Butanone (MEK)                      | 10        | U            | 10  | 0.53 | ug/L |   |          | 10/10/16 11:43 | 1       |
| Carbon disulfide                      | 1.0       | U            | 1.0 | 0.38 | ug/L |   |          | 10/10/16 11:43 | 1       |
| Carbon tetrachloride                  | 1.0       | U            | 1.0 | 0.43 | ug/L |   |          | 10/10/16 11:43 | 1       |
| Chlorobenzene                         | 1.0       | U            | 1.0 | 0.25 | ug/L |   |          | 10/10/16 11:43 | 1       |
| Chloroethane                          | 1.0       | U            | 1.0 | 0.32 | ug/L |   |          | 10/10/16 11:43 | 1       |
| Chloroform                            | 1.0       | U            | 1.0 | 0.25 | ug/L |   |          | 10/10/16 11:43 | 1       |
| Chloromethane                         | 1.0       | U            | 1.0 | 0.44 | ug/L |   |          | 10/10/16 11:43 | 1       |
| 1,1-Dichloroethane                    | 1.0       | U            | 1.0 | 0.30 | ug/L |   |          | 10/10/16 11:43 | 1       |
| 1,2-Dichloroethane                    | 1.0       | U            | 1.0 | 0.23 | ug/L |   |          | 10/10/16 11:43 | 1       |
| 1,1-Dichloroethene                    | 1.0       | U            | 1.0 | 0.45 | ug/L |   |          | 10/10/16 11:43 | 1       |
| 1,2-Dichloropropane                   | 1.0       | U            | 1.0 | 0.25 | ug/L |   |          | 10/10/16 11:43 | 1       |
| cis-1,3-Dichloropropene               | 1.0       | U            | 1.0 | 0.46 | ug/L |   |          | 10/10/16 11:43 | 1       |
| trans-1,3-Dichloropropene             | 1.0       | U            | 1.0 | 0.56 | ug/L |   |          | 10/10/16 11:43 | 1       |
| Ethylbenzene                          | 1.0       | U            | 1.0 | 0.25 | ug/L |   |          | 10/10/16 11:43 | 1       |
| 2-Hexanone                            | 10        | U            | 10  | 0.48 | ug/L |   |          | 10/10/16 11:43 | 1       |
| Methylene Chloride                    | 1.0       | U            | 1.0 | 0.33 | ug/L |   |          | 10/10/16 11:43 | 1       |
| 4-Methyl-2-pentanone (MIBK)           | 10        | U            | 10  | 0.99 | ug/L |   |          | 10/10/16 11:43 | 1       |
| Styrene                               | 1.0       | U            | 1.0 | 0.45 | ug/L |   |          | 10/10/16 11:43 | 1       |
| 1,1,2,2-Tetrachloroethane             | 1.0       | U            | 1.0 | 0.22 | ug/L |   |          | 10/10/16 11:43 | 1       |
| Tetrachloroethene                     | 1.0       | U            | 1.0 | 0.31 | ug/L |   |          | 10/10/16 11:43 | 1       |
| Toluene                               | 1.0       | U            | 1.0 | 0.23 | ug/L |   |          | 10/10/16 11:43 | 1       |
| Trichloroethene                       | 1.0       | U            | 1.0 | 0.22 | ug/L |   |          | 10/10/16 11:43 | 1       |
| Vinyl chloride                        | 1.0       | U            | 1.0 | 0.29 | ug/L |   |          | 10/10/16 11:43 | 1       |
| Xylenes, Total                        | 2.0       | U            | 2.0 | 0.52 | ug/L |   |          | 10/10/16 11:43 | 1       |
| 1,1,1-Trichloroethane                 | 1.0       | U            | 1.0 | 0.44 | ug/L |   |          | 10/10/16 11:43 | 1       |
| 1,1,2-Trichloroethane                 | 1.0       | U            | 1.0 | 0.24 | ug/L |   |          | 10/10/16 11:43 | 1       |
| Cyclohexane                           | 1.0       | U            | 1.0 | 0.45 | ug/L |   |          | 10/10/16 11:43 | 1       |
| 1,2-Dibromo-3-Chloropropane           | 2.0       | U            | 2.0 | 0.82 | ug/L |   |          | 10/10/16 11:43 | 1       |
| Ethylene Dibromide                    | 1.0       | U            | 1.0 | 0.32 | ug/L |   |          | 10/10/16 11:43 | 1       |
| Dichlorodifluoromethane               | 1.0       | U            | 1.0 | 0.32 | ug/L |   |          | 10/10/16 11:43 | 1       |
| cis-1,2-Dichloroethene                | 1.0       | U            | 1.0 | 0.26 | ug/L |   |          | 10/10/16 11:43 | 1       |
| trans-1,2-Dichloroethene              | 1.0       | U            | 1.0 | 0.30 | ug/L |   |          | 10/10/16 11:43 | 1       |
| Isopropylbenzene                      | 1.0       | U            | 1.0 | 0.35 | ug/L |   |          | 10/10/16 11:43 | 1       |
| Methyl acetate                        | 10        | U            | 10  | 2.3  | ug/L |   |          | 10/10/16 11:43 | 1       |
| Methyl tert-butyl ether               | 1.0       | U            | 1.0 | 0.20 | ug/L |   |          | 10/10/16 11:43 | 1       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0       | U            | 1.0 | 0.45 | ug/L |   |          | 10/10/16 11:43 | 1       |
| 1,2,4-Trichlorobenzene                | 1.0       | U            | 1.0 | 0.32 | ug/L |   |          | 10/10/16 11:43 | 1       |
| 1,2-Dichlorobenzene                   | 1.0       | U            | 1.0 | 0.25 | ug/L |   |          | 10/10/16 11:43 | 1       |
| 1,3-Dichlorobenzene                   | 1.0       | U            | 1.0 | 0.19 | ug/L |   |          | 10/10/16 11:43 | 1       |
| 1,4-Dichlorobenzene                   | 1.0       | U            | 1.0 | 0.27 | ug/L |   |          | 10/10/16 11:43 | 1       |
| Trichlorofluoromethane                | 1.0       | U            | 1.0 | 0.49 | ug/L |   |          | 10/10/16 11:43 | 1       |
| Chlorodibromomethane                  | 1.0       | U            | 1.0 | 0.43 | ug/L |   |          | 10/10/16 11:43 | 1       |
| Methylcyclohexane                     | 1.0       | U            | 1.0 | 0.43 | ug/L |   |          | 10/10/16 11:43 | 1       |

TestAmerica Canton

# QC Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70203-1

| Surrogate                    | MB %Recovery | MB Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 98           |              | 63 - 132 |          | 10/10/16 11:43 | 1       |
| 4-Bromofluorobenzene (Surr)  | 112          |              | 73 - 120 |          | 10/10/16 11:43 | 1       |
| Toluene-d8 (Surr)            | 105          |              | 73 - 124 |          | 10/10/16 11:43 | 1       |
| Dibromofluoromethane (Surr)  | 104          |              | 80 - 120 |          | 10/10/16 11:43 | 1       |

Lab Sample ID: LCS 240-250596/4

Matrix: Water

Analysis Batch: 250596

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA

| Analyte                               | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------------------------|-------------|------------|---------------|------|---|------|--------------|
| Acetone                               | 20.0        | 12.3       |               | ug/L |   | 62   | 46 - 120     |
| Benzene                               | 10.0        | 9.63       |               | ug/L |   | 96   | 80 - 120     |
| Dichlorobromomethane                  | 10.0        | 10.2       |               | ug/L |   | 102  | 76 - 125     |
| Bromoform                             | 10.0        | 9.49       |               | ug/L |   | 95   | 52 - 157     |
| Bromomethane                          | 10.0        | 7.00       |               | ug/L |   | 70   | 24 - 160     |
| 2-Butanone (MEK)                      | 20.0        | 15.9       |               | ug/L |   | 79   | 54 - 122     |
| Carbon disulfide                      | 10.0        | 9.92       |               | ug/L |   | 99   | 58 - 160     |
| Carbon tetrachloride                  | 10.0        | 14.0       |               | ug/L |   | 140  | 69 - 149     |
| Chlorobenzene                         | 10.0        | 9.70       |               | ug/L |   | 97   | 80 - 120     |
| Chloroethane                          | 10.0        | 7.66       |               | ug/L |   | 77   | 24 - 147     |
| Chloroform                            | 10.0        | 9.82       |               | ug/L |   | 98   | 80 - 120     |
| Chloromethane                         | 10.0        | 8.88       |               | ug/L |   | 89   | 50 - 135     |
| 1,1-Dichloroethane                    | 10.0        | 9.47       |               | ug/L |   | 95   | 77 - 121     |
| 1,2-Dichloroethane                    | 10.0        | 9.13       |               | ug/L |   | 91   | 76 - 130     |
| 1,1-Dichloroethene                    | 10.0        | 9.93       |               | ug/L |   | 99   | 70 - 141     |
| 1,2-Dichloropropane                   | 10.0        | 10.0       |               | ug/L |   | 100  | 79 - 121     |
| cis-1,3-Dichloropropene               | 10.0        | 9.67       |               | ug/L |   | 97   | 75 - 120     |
| trans-1,3-Dichloropropene             | 10.0        | 8.77       |               | ug/L |   | 88   | 65 - 120     |
| Ethylbenzene                          | 10.0        | 9.88       |               | ug/L |   | 99   | 80 - 120     |
| 2-Hexanone                            | 20.0        | 15.8       |               | ug/L |   | 79   | 56 - 124     |
| Methylene Chloride                    | 10.0        | 9.64       |               | ug/L |   | 96   | 68 - 136     |
| 4-Methyl-2-pentanone (MIBK)           | 20.0        | 18.3       |               | ug/L |   | 91   | 60 - 131     |
| Styrene                               | 10.0        | 10.4       |               | ug/L |   | 104  | 80 - 120     |
| 1,1,2,2-Tetrachloroethane             | 10.0        | 7.53       |               | ug/L |   | 75   | 61 - 130     |
| Tetrachloroethene                     | 10.0        | 10.1       |               | ug/L |   | 101  | 80 - 123     |
| Toluene                               | 10.0        | 9.46       |               | ug/L |   | 95   | 80 - 121     |
| Trichloroethene                       | 10.0        | 10.5       |               | ug/L |   | 105  | 80 - 122     |
| Vinyl chloride                        | 10.0        | 8.65       |               | ug/L |   | 86   | 60 - 129     |
| Xylenes, Total                        | 20.0        | 19.8       |               | ug/L |   | 99   | 80 - 120     |
| 1,1,1-Trichloroethane                 | 10.0        | 12.5       |               | ug/L |   | 125  | 79 - 133     |
| 1,1,2-Trichloroethane                 | 10.0        | 9.18       |               | ug/L |   | 92   | 80 - 120     |
| Cyclohexane                           | 10.0        | 10.2       |               | ug/L |   | 102  | 66 - 135     |
| 1,2-Dibromo-3-Chloropropane           | 10.0        | 9.90       |               | ug/L |   | 99   | 46 - 140     |
| Ethylene Dibromide                    | 10.0        | 9.66       |               | ug/L |   | 97   | 80 - 126     |
| Dichlorodifluoromethane               | 10.0        | 9.72       |               | ug/L |   | 97   | 32 - 140     |
| cis-1,2-Dichloroethene                | 10.0        | 9.78       |               | ug/L |   | 98   | 80 - 120     |
| trans-1,2-Dichloroethene              | 10.0        | 10.1       |               | ug/L |   | 101  | 80 - 123     |
| Isopropylbenzene                      | 10.0        | 11.0       |               | ug/L |   | 110  | 80 - 120     |
| Methyl acetate                        | 50.0        | 43.7       |               | ug/L |   | 87   | 65 - 124     |
| Methyl tert-butyl ether               | 10.0        | 10.8       |               | ug/L |   | 108  | 75 - 126     |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 10.0        | 11.6       |               | ug/L |   | 116  | 65 - 151     |
| 1,2,4-Trichlorobenzene                | 10.0        | 12.2       |               | ug/L |   | 122  | 53 - 137     |
| 1,2-Dichlorobenzene                   | 10.0        | 9.56       |               | ug/L |   | 96   | 80 - 120     |

TestAmerica Canton

# QC Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70203-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-250596/4

Matrix: Water

Analysis Batch: 250596

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------|-------------|------------|---------------|------|---|------|--------------|
| 1,3-Dichlorobenzene    | 10.0        | 9.24       |               | ug/L |   | 92   | 80 - 120     |
| 1,4-Dichlorobenzene    | 10.0        | 9.30       |               | ug/L |   | 93   | 80 - 120     |
| Trichlorofluoromethane | 10.0        | 15.8       |               | ug/L |   | 158  | 56 - 161     |
| Chlorodibromomethane   | 10.0        | 10.1       |               | ug/L |   | 101  | 68 - 131     |
| Methylcyclohexane      | 10.0        | 10.4       |               | ug/L |   | 104  | 71 - 122     |
| m-Xylene & p-Xylene    | 10.0        | 9.70       |               | ug/L |   | 97   | 80 - 120     |
| o-Xylene               | 10.0        | 10.1       |               | ug/L |   | 101  | 80 - 120     |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 97            |               | 63 - 132 |
| 4-Bromofluorobenzene (Surr)  | 118           |               | 73 - 120 |
| Toluene-d8 (Surr)            | 107           |               | 73 - 124 |
| Dibromofluoromethane (Surr)  | 106           |               | 80 - 120 |

## Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 240-249537/1-A

Matrix: Water

Analysis Batch: 249851

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 249537

| Analyte   | MB Result | MB Qualifier | RL   | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|-----------|--------------|------|------|------|---|----------------|----------------|---------|
| Arsenic   | 2.0       | U            | 2.0  | 0.35 | ug/L |   | 10/03/16 14:00 | 10/04/16 22:19 | 1       |
| Barium    | 1.03      | J            | 5.0  | 0.52 | ug/L |   | 10/03/16 14:00 | 10/04/16 22:19 | 1       |
| Iron      | 29.4      | J            | 50   | 5.3  | ug/L |   | 10/03/16 14:00 | 10/04/16 22:19 | 1       |
| Manganese | 0.459     | J            | 2.0  | 0.25 | ug/L |   | 10/03/16 14:00 | 10/04/16 22:19 | 1       |
| Selenium  | 5.0       | U            | 5.0  | 0.48 | ug/L |   | 10/03/16 14:00 | 10/04/16 22:19 | 1       |
| Sodium    | 1000      | U            | 1000 | 14   | ug/L |   | 10/03/16 14:00 | 10/04/16 22:19 | 1       |

Lab Sample ID: LCS 240-249537/2-A

Matrix: Water

Analysis Batch: 249851

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 249537

| Analyte   | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------|-------------|------------|---------------|------|---|------|--------------|
| Arsenic   | 1000        | 1010       |               | ug/L |   | 101  | 80 - 120     |
| Barium    | 1000        | 932        |               | ug/L |   | 93   | 80 - 120     |
| Iron      | 10000       | 10800      |               | ug/L |   | 108  | 80 - 120     |
| Manganese | 1000        | 1090       |               | ug/L |   | 109  | 80 - 120     |
| Selenium  | 1000        | 1030       |               | ug/L |   | 103  | 80 - 120     |
| Sodium    | 10000       | 10700      |               | ug/L |   | 107  | 80 - 120     |

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 240-249194/39

Matrix: Water

Analysis Batch: 249194

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte  | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| Chloride | 1.0       | U            | 1.0 | 0.41 | mg/L |   |          | 09/30/16 19:54 | 1       |

TestAmerica Canton



# QC Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70203-1

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 240-249194/39

Matrix: Water

Analysis Batch: 249194

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte | MB<br>Result | MB<br>Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------|--------------|-----------------|-----|------|------|---|----------|----------------|---------|
| Sulfate | 1.0          | U               | 1.0 | 0.13 | mg/L |   |          | 09/30/16 19:54 | 1       |

Lab Sample ID: LCS 240-249194/40

Matrix: Water

Analysis Batch: 249194

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte  | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|----------|----------------|---------------|------------------|------|---|------|-----------------|
| Chloride | 50.0           | 54.0          |                  | mg/L |   | 108  | 90 - 110        |
| Sulfate  | 50.0           | 50.5          |                  | mg/L |   | 101  | 90 - 110        |

Lab Sample ID: MB 240-249746/27

Matrix: Water

Analysis Batch: 249746

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte  | MB<br>Result | MB<br>Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------------|-----------------|-----|------|------|---|----------|----------------|---------|
| Chloride | 1.0          | U               | 1.0 | 0.41 | mg/L |   |          | 10/04/16 19:32 | 1       |
| Sulfate  | 1.0          | U               | 1.0 | 0.13 | mg/L |   |          | 10/04/16 19:32 | 1       |

Lab Sample ID: MB 240-249746/3

Matrix: Water

Analysis Batch: 249746

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte  | MB<br>Result | MB<br>Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------------|-----------------|-----|------|------|---|----------|----------------|---------|
| Chloride | 1.0          | U               | 1.0 | 0.41 | mg/L |   |          | 10/04/16 12:24 | 1       |
| Sulfate  | 1.0          | U               | 1.0 | 0.13 | mg/L |   |          | 10/04/16 12:24 | 1       |

Lab Sample ID: LCS 240-249746/28

Matrix: Water

Analysis Batch: 249746

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte  | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|----------|----------------|---------------|------------------|------|---|------|-----------------|
| Chloride | 50.0           | 54.3          |                  | mg/L |   | 109  | 90 - 110        |
| Sulfate  | 50.0           | 50.6          |                  | mg/L |   | 101  | 90 - 110        |

Lab Sample ID: LCS 240-249746/4

Matrix: Water

Analysis Batch: 249746

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte  | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|----------|----------------|---------------|------------------|------|---|------|-----------------|
| Chloride | 50.0           | 53.7          |                  | mg/L |   | 107  | 90 - 110        |
| Sulfate  | 50.0           | 50.5          |                  | mg/L |   | 101  | 90 - 110        |

Lab Sample ID: MB 240-249797/27

Matrix: Water

Analysis Batch: 249797

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte  | MB<br>Result | MB<br>Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------------|-----------------|-----|------|------|---|----------|----------------|---------|
| Chloride | 1.0          | U               | 1.0 | 0.41 | mg/L |   |          | 10/05/16 13:34 | 1       |

TestAmerica Canton

# QC Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70203-1

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 240-249797/3

Matrix: Water

Analysis Batch: 249797

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte  | MB<br>Result | MB<br>Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------------|-----------------|-----|------|------|---|----------|----------------|---------|
| Chloride | 1.0          | U               | 1.0 | 0.41 | mg/L |   |          | 10/05/16 05:30 | 1       |
| Sulfate  | 1.0          | U               | 1.0 | 0.13 | mg/L |   |          | 10/05/16 05:30 | 1       |

Lab Sample ID: LCS 240-249797/28

Matrix: Water

Analysis Batch: 249797

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte  | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|----------|----------------|---------------|------------------|------|---|------|-----------------|
| Chloride | 50.0           | 51.4          |                  | mg/L |   | 103  | 90 - 110        |

Lab Sample ID: LCS 240-249797/4

Matrix: Water

Analysis Batch: 249797

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte  | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|----------|----------------|---------------|------------------|------|---|------|-----------------|
| Chloride | 50.0           | 51.2          |                  | mg/L |   | 102  | 90 - 110        |
| Sulfate  | 50.0           | 52.4          |                  | mg/L |   | 105  | 90 - 110        |

Lab Sample ID: MB 240-250216/3

Matrix: Water

Analysis Batch: 250216

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte | MB<br>Result | MB<br>Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------|--------------|-----------------|-----|------|------|---|----------|----------------|---------|
| Sulfate | 1.0          | U               | 1.0 | 0.13 | mg/L |   |          | 10/06/16 15:33 | 1       |

Lab Sample ID: LCS 240-250216/4

Matrix: Water

Analysis Batch: 250216

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|---------|----------------|---------------|------------------|------|---|------|-----------------|
| Sulfate | 50.0           | 53.4          |                  | mg/L |   | 107  | 90 - 110        |

Lab Sample ID: 240-70203-1 MS

Matrix: Water

Analysis Batch: 250216

Client Sample ID: MW-118WT\_092716

Prep Type: Total/NA

| Analyte | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|---------|------------------|---------------------|----------------|--------------|-----------------|------|---|------|-----------------|
| Sulfate | 6.1              |                     | 50.0           | 62.9         |                 | mg/L |   | 114  | 80 - 120        |

Lab Sample ID: 240-70203-1 MSD

Matrix: Water

Analysis Batch: 250216

Client Sample ID: MW-118WT\_092716

Prep Type: Total/NA

| Analyte | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits | RPD | RPD<br>Limit |
|---------|------------------|---------------------|----------------|---------------|------------------|------|---|------|-----------------|-----|--------------|
| Sulfate | 6.1              |                     | 50.0           | 63.2          |                  | mg/L |   | 114  | 80 - 120        | 0   | 15           |

TestAmerica Canton

# QC Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70203-1

## Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 240-250127/4

Matrix: Water

Analysis Batch: 250127

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte              | MB Result | MB Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|-----------|--------------|-------|--------|------|---|----------|----------------|---------|
| Nitrate Nitrite as N | 0.050     | U            | 0.050 | 0.0073 | mg/L | - |          | 10/05/16 20:19 | 1       |

Lab Sample ID: LCS 240-250127/5

Matrix: Water

Analysis Batch: 250127

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte              | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------------|-------------|------------|---------------|------|---|------|--------------|
| Nitrate Nitrite as N | 1.93        | 2.08       |               | mg/L | - | 108  | 90 - 110     |

## Method: 4500 H+ B-2000 - pH

Lab Sample ID: LCS 240-249177/2

Matrix: Water

Analysis Batch: 249177

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|------|---|------|--------------|
| pH      | 9.14        | 9.2        |               | SU   | - | 101  | 97 - 103     |

Lab Sample ID: 240-70203-1 DU

Matrix: Water

Analysis Batch: 249177

Client Sample ID: MW-118WT\_092716

Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|---------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| pH      | 7.0           | HF               | 7.0       |              | SU   | - | 0.3 | 20        |

## Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 240-249967/1-A

Matrix: Water

Analysis Batch: 250023

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 249967

| Analyte        | MB Result | MB Qualifier | RL    | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|--------------|-------|--------|------|---|----------------|----------------|---------|
| Cyanide, Total | 0.010     | U            | 0.010 | 0.0050 | mg/L | - | 10/05/16 13:17 | 10/05/16 15:58 | 1       |

Lab Sample ID: LCS 240-249967/2-A

Matrix: Water

Analysis Batch: 250023

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 249967

| Analyte        | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------|-------------|------------|---------------|------|---|------|--------------|
| Cyanide, Total | 0.0400      | 0.0339     |               | mg/L | - | 85   | 59 - 129     |

TestAmerica Canton

# QC Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70203-1

## Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 240-249808/1

Matrix: Water

Analysis Batch: 249808

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                | MB<br>Result | MB<br>Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------------|-----------------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 10           | U               | 10 | 7.4 | mg/L | - |          | 10/04/16 16:03 | 1       |

Lab Sample ID: LCS 240-249808/2

Matrix: Water

Analysis Batch: 249808

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|------------------------|----------------|---------------|------------------|------|---|------|-----------------|
| Total Dissolved Solids | 216            | 208           |                  | mg/L | - | 96   | 80 - 120        |

## Method: SM 4500 NH3 D - Ammonia

Lab Sample ID: MB 240-249583/7

Matrix: Water

Analysis Batch: 249583

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte        | MB<br>Result | MB<br>Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------|--------------|-----------------|------|-------|------|---|----------|----------------|---------|
| Ammonia (as N) | 0.0562       | J               | 0.20 | 0.033 | mg/L | - |          | 10/03/16 11:22 | 1       |

Lab Sample ID: LCS 240-249583/8

Matrix: Water

Analysis Batch: 249583

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte        | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|----------------|----------------|---------------|------------------|------|---|------|-----------------|
| Ammonia (as N) | 3.84           | 3.86          |                  | mg/L | - | 101  | 85 - 114        |

TestAmerica Canton

# QC Association Summary

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70203-1

## GC/MS VOA

### Analysis Batch: 250596

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 240-70203-5      | TWW-1_092716       | Total/NA  | Water  | 8260B  |            |
| 240-70203-6      | DUP-01_092716      | Total/NA  | Water  | 8260B  |            |
| 240-70203-7      | TRIPBLANK_092716   | Total/NA  | Water  | 8260B  |            |
| MB 240-250596/7  | Method Blank       | Total/NA  | Water  | 8260B  |            |
| LCS 240-250596/4 | Lab Control Sample | Total/NA  | Water  | 8260B  |            |

## Metals

### Prep Batch: 249537

| Lab Sample ID      | Client Sample ID   | Prep Type         | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 240-70203-1        | MW-118WT_092716    | Dissolved         | Water  | 3005A  |            |
| 240-70203-2        | MW-118S1_092716    | Dissolved         | Water  | 3005A  |            |
| 240-70203-3        | MW-117WT_092716    | Dissolved         | Water  | 3005A  |            |
| 240-70203-4        | MW-117S1_092716    | Dissolved         | Water  | 3005A  |            |
| MB 240-249537/1-A  | Method Blank       | Total Recoverable | Water  | 3005A  |            |
| LCS 240-249537/2-A | Lab Control Sample | Total Recoverable | Water  | 3005A  |            |

### Analysis Batch: 249851

| Lab Sample ID      | Client Sample ID   | Prep Type         | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 240-70203-1        | MW-118WT_092716    | Dissolved         | Water  | 6020   | 249537     |
| 240-70203-2        | MW-118S1_092716    | Dissolved         | Water  | 6020   | 249537     |
| 240-70203-3        | MW-117WT_092716    | Dissolved         | Water  | 6020   | 249537     |
| 240-70203-4        | MW-117S1_092716    | Dissolved         | Water  | 6020   | 249537     |
| MB 240-249537/1-A  | Method Blank       | Total Recoverable | Water  | 6020   | 249537     |
| LCS 240-249537/2-A | Lab Control Sample | Total Recoverable | Water  | 6020   | 249537     |

### Analysis Batch: 250061

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 240-70203-3   | MW-117WT_092716  | Dissolved | Water  | 6020   | 249537     |

## General Chemistry

### Analysis Batch: 249177

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method         | Prep Batch |
|------------------|--------------------|-----------|--------|----------------|------------|
| 240-70203-1      | MW-118WT_092716    | Total/NA  | Water  | 4500 H+ B-2000 |            |
| 240-70203-2      | MW-118S1_092716    | Total/NA  | Water  | 4500 H+ B-2000 |            |
| 240-70203-3      | MW-117WT_092716    | Total/NA  | Water  | 4500 H+ B-2000 |            |
| 240-70203-4      | MW-117S1_092716    | Total/NA  | Water  | 4500 H+ B-2000 |            |
| LCS 240-249177/2 | Lab Control Sample | Total/NA  | Water  | 4500 H+ B-2000 |            |
| 240-70203-1 DU   | MW-118WT_092716    | Total/NA  | Water  | 4500 H+ B-2000 |            |

### Analysis Batch: 249194

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| MB 240-249194/39  | Method Blank       | Total/NA  | Water  | 300.0  |            |
| LCS 240-249194/40 | Lab Control Sample | Total/NA  | Water  | 300.0  |            |

### Analysis Batch: 249583

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method        | Prep Batch |
|---------------|------------------|-----------|--------|---------------|------------|
| 240-70203-1   | MW-118WT_092716  | Total/NA  | Water  | SM 4500 NH3 D |            |
| 240-70203-2   | MW-118S1_092716  | Total/NA  | Water  | SM 4500 NH3 D |            |

TestAmerica Canton

# QC Association Summary

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70203-1

## General Chemistry (Continued)

### Analysis Batch: 249583 (Continued)

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method        | Prep Batch |
|------------------|--------------------|-----------|--------|---------------|------------|
| 240-70203-3      | MW-117WT_092716    | Total/NA  | Water  | SM 4500 NH3 D |            |
| 240-70203-4      | MW-117S1_092716    | Total/NA  | Water  | SM 4500 NH3 D |            |
| MB 240-249583/7  | Method Blank       | Total/NA  | Water  | SM 4500 NH3 D |            |
| LCS 240-249583/8 | Lab Control Sample | Total/NA  | Water  | SM 4500 NH3 D |            |

### Analysis Batch: 249746

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 240-70203-3       | MW-117WT_092716    | Total/NA  | Water  | 300.0  |            |
| 240-70203-3       | MW-117WT_092716    | Total/NA  | Water  | 300.0  |            |
| 240-70203-4       | MW-117S1_092716    | Total/NA  | Water  | 300.0  |            |
| 240-70203-4       | MW-117S1_092716    | Total/NA  | Water  | 300.0  |            |
| MB 240-249746/27  | Method Blank       | Total/NA  | Water  | 300.0  |            |
| MB 240-249746/3   | Method Blank       | Total/NA  | Water  | 300.0  |            |
| LCS 240-249746/28 | Lab Control Sample | Total/NA  | Water  | 300.0  |            |
| LCS 240-249746/4  | Lab Control Sample | Total/NA  | Water  | 300.0  |            |

### Analysis Batch: 249797

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 240-70203-1       | MW-118WT_092716    | Total/NA  | Water  | 300.0  |            |
| 240-70203-2       | MW-118S1_092716    | Total/NA  | Water  | 300.0  |            |
| MB 240-249797/27  | Method Blank       | Total/NA  | Water  | 300.0  |            |
| MB 240-249797/3   | Method Blank       | Total/NA  | Water  | 300.0  |            |
| LCS 240-249797/28 | Lab Control Sample | Total/NA  | Water  | 300.0  |            |
| LCS 240-249797/4  | Lab Control Sample | Total/NA  | Water  | 300.0  |            |

### Analysis Batch: 249808

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method   | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 240-70203-1      | MW-118WT_092716    | Total/NA  | Water  | SM 2540C |            |
| 240-70203-2      | MW-118S1_092716    | Total/NA  | Water  | SM 2540C |            |
| 240-70203-3      | MW-117WT_092716    | Total/NA  | Water  | SM 2540C |            |
| 240-70203-4      | MW-117S1_092716    | Total/NA  | Water  | SM 2540C |            |
| MB 240-249808/1  | Method Blank       | Total/NA  | Water  | SM 2540C |            |
| LCS 240-249808/2 | Lab Control Sample | Total/NA  | Water  | SM 2540C |            |

### Prep Batch: 249967

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 240-70203-1        | MW-118WT_092716    | Dissolved | Water  | 9012A  |            |
| 240-70203-1        | MW-118WT_092716    | Total/NA  | Water  | 9012A  |            |
| 240-70203-2        | MW-118S1_092716    | Dissolved | Water  | 9012A  |            |
| 240-70203-2        | MW-118S1_092716    | Total/NA  | Water  | 9012A  |            |
| 240-70203-3        | MW-117WT_092716    | Dissolved | Water  | 9012A  |            |
| 240-70203-3        | MW-117WT_092716    | Total/NA  | Water  | 9012A  |            |
| 240-70203-4        | MW-117S1_092716    | Dissolved | Water  | 9012A  |            |
| 240-70203-4        | MW-117S1_092716    | Total/NA  | Water  | 9012A  |            |
| MB 240-249967/1-A  | Method Blank       | Total/NA  | Water  | 9012A  |            |
| LCS 240-249967/2-A | Lab Control Sample | Total/NA  | Water  | 9012A  |            |

### Analysis Batch: 250023

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 240-70203-1   | MW-118WT_092716  | Dissolved | Water  | 9012A  | 249967     |
| 240-70203-1   | MW-118WT_092716  | Total/NA  | Water  | 9012A  | 249967     |

TestAmerica Canton

# QC Association Summary

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70203-1

## General Chemistry (Continued)

### Analysis Batch: 250023 (Continued)

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 240-70203-2        | MW-118S1_092716    | Dissolved | Water  | 9012A  | 249967     |
| 240-70203-2        | MW-118S1_092716    | Total/NA  | Water  | 9012A  | 249967     |
| 240-70203-3        | MW-117WT_092716    | Dissolved | Water  | 9012A  | 249967     |
| 240-70203-3        | MW-117WT_092716    | Total/NA  | Water  | 9012A  | 249967     |
| 240-70203-4        | MW-117S1_092716    | Dissolved | Water  | 9012A  | 249967     |
| 240-70203-4        | MW-117S1_092716    | Total/NA  | Water  | 9012A  | 249967     |
| MB 240-249967/1-A  | Method Blank       | Total/NA  | Water  | 9012A  | 249967     |
| LCS 240-249967/2-A | Lab Control Sample | Total/NA  | Water  | 9012A  | 249967     |

### Analysis Batch: 250127

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 240-70203-1      | MW-118WT_092716    | Total/NA  | Water  | 353.2  |            |
| 240-70203-2      | MW-118S1_092716    | Total/NA  | Water  | 353.2  |            |
| 240-70203-3      | MW-117WT_092716    | Total/NA  | Water  | 353.2  |            |
| 240-70203-4      | MW-117S1_092716    | Total/NA  | Water  | 353.2  |            |
| MB 240-250127/4  | Method Blank       | Total/NA  | Water  | 353.2  |            |
| LCS 240-250127/5 | Lab Control Sample | Total/NA  | Water  | 353.2  |            |

### Analysis Batch: 250216

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 240-70203-1      | MW-118WT_092716    | Total/NA  | Water  | 300.0  |            |
| 240-70203-2      | MW-118S1_092716    | Total/NA  | Water  | 300.0  |            |
| MB 240-250216/3  | Method Blank       | Total/NA  | Water  | 300.0  |            |
| LCS 240-250216/4 | Lab Control Sample | Total/NA  | Water  | 300.0  |            |
| 240-70203-1 MS   | MW-118WT_092716    | Total/NA  | Water  | 300.0  |            |
| 240-70203-1 MSD  | MW-118WT_092716    | Total/NA  | Water  | 300.0  |            |



# Lab Chronicle

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70203-1

**Client Sample ID: MW-118WT\_092716**

**Date Collected: 09/27/16 13:00**

**Date Received: 09/30/16 09:10**

**Lab Sample ID: 240-70203-1**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Dissolved | Prep       | 3005A          |     |                 | 249537       | 10/03/16 14:00       | AJC     | TAL CAN |
| Dissolved | Analysis   | 6020           |     | 1               | 249851       | 10/04/16 23:16       | RKT     | TAL CAN |
| Total/NA  | Analysis   | 300.0          |     | 5               | 249797       | 10/05/16 19:57       | LKG     | TAL CAN |
| Total/NA  | Analysis   | 300.0          |     | 1               | 250216       | 10/06/16 19:34       | LCN     | TAL CAN |
| Total/NA  | Analysis   | 353.2          |     | 1               | 250127       | 10/05/16 20:30       | JWW     | TAL CAN |
| Total/NA  | Analysis   | 4500 H+ B-2000 |     | 1               | 249177       | 09/30/16 12:23       | BLW     | TAL CAN |
| Dissolved | Prep       | 9012A          |     |                 | 249967       | 10/05/16 14:17       | JWW     | TAL CAN |
| Dissolved | Analysis   | 9012A          |     | 1               | 250023       | 10/05/16 16:04       | JWW     | TAL CAN |
| Total/NA  | Prep       | 9012A          |     |                 | 249967       | 10/05/16 14:17       | JWW     | TAL CAN |
| Total/NA  | Analysis   | 9012A          |     | 1               | 250023       | 10/05/16 16:04       | JWW     | TAL CAN |
| Total/NA  | Analysis   | SM 2540C       |     | 1               | 249808       | 10/04/16 16:03       | JW      | TAL CAN |
| Total/NA  | Analysis   | SM 4500 NH3 D  |     | 10              | 249583       | 10/03/16 13:07       | JAS     | TAL CAN |

**Client Sample ID: MW-118S1\_092716**

**Date Collected: 09/27/16 13:20**

**Date Received: 09/30/16 09:10**

**Lab Sample ID: 240-70203-2**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Dissolved | Prep       | 3005A          |     |                 | 249537       | 10/03/16 14:00       | AJC     | TAL CAN |
| Dissolved | Analysis   | 6020           |     | 1               | 249851       | 10/04/16 23:20       | RKT     | TAL CAN |
| Total/NA  | Analysis   | 300.0          |     | 5               | 249797       | 10/05/16 20:37       | LKG     | TAL CAN |
| Total/NA  | Analysis   | 300.0          |     | 1               | 250216       | 10/06/16 20:35       | LCN     | TAL CAN |
| Total/NA  | Analysis   | 353.2          |     | 1               | 250127       | 10/05/16 20:33       | JWW     | TAL CAN |
| Total/NA  | Analysis   | 4500 H+ B-2000 |     | 1               | 249177       | 09/30/16 12:31       | BLW     | TAL CAN |
| Dissolved | Prep       | 9012A          |     |                 | 249967       | 10/05/16 14:17       | JWW     | TAL CAN |
| Dissolved | Analysis   | 9012A          |     | 1               | 250023       | 10/05/16 16:04       | JWW     | TAL CAN |
| Total/NA  | Prep       | 9012A          |     |                 | 249967       | 10/05/16 14:17       | JWW     | TAL CAN |
| Total/NA  | Analysis   | 9012A          |     | 1               | 250023       | 10/05/16 16:09       | JWW     | TAL CAN |
| Total/NA  | Analysis   | SM 2540C       |     | 1               | 249808       | 10/04/16 16:03       | JW      | TAL CAN |
| Total/NA  | Analysis   | SM 4500 NH3 D  |     | 2               | 249583       | 10/03/16 13:13       | JAS     | TAL CAN |

**Client Sample ID: MW-117WT\_092716**

**Date Collected: 09/27/16 15:10**

**Date Received: 09/30/16 09:10**

**Lab Sample ID: 240-70203-3**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Dissolved | Prep       | 3005A        |     |                 | 249537       | 10/03/16 14:00       | AJC     | TAL CAN |
| Dissolved | Analysis   | 6020         |     | 1               | 249851       | 10/04/16 23:33       | RKT     | TAL CAN |
| Dissolved | Prep       | 3005A        |     |                 | 249537       | 10/03/16 14:00       | AJC     | TAL CAN |
| Dissolved | Analysis   | 6020         |     | 5               | 250061       | 10/05/16 23:09       | RKT     | TAL CAN |
| Total/NA  | Analysis   | 300.0        |     | 1               | 249746       | 10/04/16 20:38       | LCN     | TAL CAN |
| Total/NA  | Analysis   | 300.0        |     | 25              | 249746       | 10/04/16 20:54       | LCN     | TAL CAN |

TestAmerica Canton

# Lab Chronicle

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70203-1

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 353.2          |     | 1               | 250127       | 10/05/16 20:34       | JWW     | TAL CAN |
| Total/NA  | Analysis   | 4500 H+ B-2000 |     | 1               | 249177       | 09/30/16 12:38       | BLW     | TAL CAN |
| Dissolved | Prep       | 9012A          |     |                 | 249967       | 10/05/16 14:17       | JWW     | TAL CAN |
| Dissolved | Analysis   | 9012A          |     | 1               | 250023       | 10/05/16 16:04       | JWW     | TAL CAN |
| Total/NA  | Prep       | 9012A          |     |                 | 249967       | 10/05/16 14:17       | JWW     | TAL CAN |
| Total/NA  | Analysis   | 9012A          |     | 1               | 250023       | 10/05/16 16:09       | JWW     | TAL CAN |
| Total/NA  | Analysis   | SM 2540C       |     | 1               | 249808       | 10/04/16 16:03       | JW      | TAL CAN |
| Total/NA  | Analysis   | SM 4500 NH3 D  |     | 20              | 249583       | 10/03/16 13:22       | JAS     | TAL CAN |

**Client Sample ID: MW-117S1\_092716**

**Lab Sample ID: 240-70203-4**

**Date Collected: 09/27/16 15:30**

**Matrix: Water**

**Date Received: 09/30/16 09:10**

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Dissolved | Prep       | 3005A          |     |                 | 249537       | 10/03/16 14:00       | AJC     | TAL CAN |
| Dissolved | Analysis   | 6020           |     | 1               | 249851       | 10/04/16 23:37       | RKT     | TAL CAN |
| Total/NA  | Analysis   | 300.0          |     | 1               | 249746       | 10/04/16 20:05       | LCN     | TAL CAN |
| Total/NA  | Analysis   | 300.0          |     | 5               | 249746       | 10/04/16 20:22       | LCN     | TAL CAN |
| Total/NA  | Analysis   | 353.2          |     | 1               | 250127       | 10/05/16 20:35       | JWW     | TAL CAN |
| Total/NA  | Analysis   | 4500 H+ B-2000 |     | 1               | 249177       | 09/30/16 12:46       | BLW     | TAL CAN |
| Dissolved | Prep       | 9012A          |     |                 | 249967       | 10/05/16 14:17       | JWW     | TAL CAN |
| Dissolved | Analysis   | 9012A          |     | 1               | 250023       | 10/05/16 16:04       | JWW     | TAL CAN |
| Total/NA  | Prep       | 9012A          |     |                 | 249967       | 10/05/16 14:17       | JWW     | TAL CAN |
| Total/NA  | Analysis   | 9012A          |     | 1               | 250023       | 10/05/16 16:09       | JWW     | TAL CAN |
| Total/NA  | Analysis   | SM 2540C       |     | 1               | 249808       | 10/04/16 16:03       | JW      | TAL CAN |
| Total/NA  | Analysis   | SM 4500 NH3 D  |     | 2               | 249583       | 10/03/16 13:51       | JAS     | TAL CAN |

**Client Sample ID: TWW-1\_092716**

**Lab Sample ID: 240-70203-5**

**Date Collected: 09/27/16 17:05**

**Matrix: Water**

**Date Received: 09/30/16 09:10**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 10              | 250596       | 10/10/16 15:51       | LEE     | TAL CAN |

**Client Sample ID: DUP-01\_092716**

**Lab Sample ID: 240-70203-6**

**Date Collected: 09/27/16 00:00**

**Matrix: Water**

**Date Received: 09/30/16 09:10**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 7.69            | 250596       | 10/10/16 16:14       | LEE     | TAL CAN |

TestAmerica Canton

# Lab Chronicle

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70203-1

**Client Sample ID: TRIPBLANK\_092716**

**Lab Sample ID: 240-70203-7**

**Date Collected: 09/27/16 00:00**

**Matrix: Water**

**Date Received: 09/30/16 09:10**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 1               | 250596       | 10/10/16 16:36       | LEE     | TAL CAN |

## Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

# Certification Summary

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70203-1

## Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority             | Program       | EPA Region | Certification ID | Expiration Date |
|-----------------------|---------------|------------|------------------|-----------------|
| California            | NELAP         | 9          | 01144CA          | 06-30-14 *      |
| California            | State Program | 9          | 2927             | 04-30-17        |
| Connecticut           | State Program | 1          | PH-0590          | 12-31-17        |
| Florida               | NELAP         | 4          | E87225           | 06-30-17        |
| Illinois              | NELAP         | 5          | 200004           | 07-31-17        |
| Kansas                | NELAP         | 7          | E-10336          | 01-31-17        |
| Kentucky (UST)        | State Program | 4          | 58               | 02-23-17        |
| Kentucky (VW)         | State Program | 4          | 98016            | 12-31-16 *      |
| Minnesota             | NELAP         | 5          | 039-999-348      | 12-31-16 *      |
| Minnesota (Petrofund) | State Program | 1          | 3506             | 07-31-17        |
| Nevada                | State Program | 9          | OH-000482008A    | 07-31-17        |
| New Jersey            | NELAP         | 2          | OH001            | 06-30-17        |
| New York              | NELAP         | 2          | 10975            | 03-31-17        |
| Ohio VAP              | State Program | 5          | CL0024           | 09-14-17        |
| Oregon                | NELAP         | 10         | 4062             | 02-23-17        |
| Pennsylvania          | NELAP         | 3          | 68-00340         | 08-31-17        |
| Texas                 | NELAP         | 6          | T104704517-15-5  | 08-31-17        |
| USDA                  | Federal       |            | P330-13-00319    | 11-26-16 *      |
| Virginia              | NELAP         | 3          | 460175           | 09-14-17        |
| Washington            | State Program | 10         | C971             | 01-12-17        |
| West Virginia DEP     | State Program | 3          | 210              | 12-31-16 *      |
| Wisconsin             | State Program | 5          | 999518190        | 08-31-17        |

\* Certification renewal pending - certification considered valid.

TestAmerica Canton



|                                                                                    |  |                                                                                                   |  |                                                                                                                      |  |
|------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------|--|
| <b>TestAmerica Canton Sample Receipt Form/Narrative</b>                            |  |                                                                                                   |  | Login # : <u>70203</u>                                                                                               |  |
| <b>Canton Facility</b>                                                             |  |                                                                                                   |  |                                                                                                                      |  |
| Client <u>Arcoadis</u>                                                             |  | Site Name _____                                                                                   |  | Cooler unpacked by: <u>[Signature]</u>                                                                               |  |
| Cooler Received on <u>9/30/14</u>                                                  |  | Opened on <u>9/30/14</u>                                                                          |  |                                                                                                                      |  |
| FedEx: <input checked="" type="checkbox"/> Grd <input type="checkbox"/> Exp        |  | UPS <input type="checkbox"/> FAS <input type="checkbox"/> Stetson                                 |  | Client Drop Off <input type="checkbox"/> TestAmerica Courier <input type="checkbox"/> Other <input type="checkbox"/> |  |
| <b>Receipt After-hours: Drop-off Date/Time _____ Storage Location _____</b>        |  |                                                                                                   |  |                                                                                                                      |  |
| TestAmerica Cooler # _____                                                         |  | Foam Box <input type="checkbox"/> Client Cooler <input checked="" type="checkbox"/>               |  | Box <input type="checkbox"/> Other <input type="checkbox"/>                                                          |  |
| Packing material used: <u>Bubble Wrap</u>                                          |  | Foam <input type="checkbox"/> Plastic Bag <input type="checkbox"/>                                |  | None <input type="checkbox"/> Other <input type="checkbox"/>                                                         |  |
| COOLANT: <u>Wet Ice</u>                                                            |  | Blue Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> Water <input type="checkbox"/> |  | None <input checked="" type="checkbox"/>                                                                             |  |
| 1. Cooler temperature upon receipt                                                 |  | <input checked="" type="checkbox"/> See Multiple Cooler Form                                      |  |                                                                                                                      |  |
| IR GUN# IR-8 (CF +0.4 °C) Observed Cooler Temp. _____ °C                           |  | Corrected Cooler Temp. _____ °C                                                                   |  |                                                                                                                      |  |
| IR GUN #36 (CF +1.3 °C) Observed Cooler Temp. _____ °C                             |  | Corrected Cooler Temp. _____ °C                                                                   |  |                                                                                                                      |  |
| 2. Were custody seals on the outside of the cooler(s)?                             |  | If Yes Quantity _____                                                                             |  | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                  |  |
| -Were custody seals on the outside of the cooler(s) signed & dated?                |  |                                                                                                   |  | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA <input type="checkbox"/>                      |  |
| -Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?                   |  |                                                                                                   |  | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                  |  |
| 3. Shippers' packing slip attached to the cooler(s)?                               |  | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                               |  |                                                                                                                      |  |
| 4. Did custody papers accompany the sample(s)?                                     |  | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                               |  |                                                                                                                      |  |
| 5. Were the custody papers relinquished & signed in the appropriate place?         |  | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                               |  |                                                                                                                      |  |
| 6. Was/were the person(s) who collected the samples clearly identified on the COC? |  | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                               |  |                                                                                                                      |  |
| 7. Did all bottles arrive in good condition (Unbroken)?                            |  | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                               |  |                                                                                                                      |  |
| 8. Could all bottle labels be reconciled with the COC?                             |  | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                               |  |                                                                                                                      |  |
| 9. Were correct bottle(s) used for the test(s) indicated?                          |  | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                               |  |                                                                                                                      |  |
| 10. Sufficient quantity received to perform indicated analyses?                    |  | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                               |  |                                                                                                                      |  |
| 11. Are these work share samples?                                                  |  | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                               |  |                                                                                                                      |  |
| If yes, Questions 11-15 have been checked at the originating laboratory.           |  |                                                                                                   |  |                                                                                                                      |  |
| 11. Were sample(s) at the correct pH upon receipt?                                 |  | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA <input type="checkbox"/>   |  | pH Strip Lot# <u>HC574756</u>                                                                                        |  |
| 12. Were VOAs on the COC?                                                          |  | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                               |  |                                                                                                                      |  |
| 13. Were air bubbles >6 mm in any VOA vials?                                       |  | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA <input type="checkbox"/>   |  |                                                                                                                      |  |
| 14. Was a VOA trip blank present in the cooler(s)?                                 |  | Trip Blank Lot # <u>B015201B</u>                                                                  |  | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                  |  |
| 15. Was a LL Hg or Me Hg trip blank present?                                       |  | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                               |  |                                                                                                                      |  |
| Contacted PM _____                                                                 |  | Date _____ by _____                                                                               |  | via Verbal <input type="checkbox"/> Voice Mail <input type="checkbox"/> Other <input type="checkbox"/>               |  |
| Concerning _____                                                                   |  |                                                                                                   |  |                                                                                                                      |  |

|                                                                                                                                                                                                                                                  |                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| <b>14. CHAIN OF CUSTODY &amp; SAMPLE DISCREPANCIES</b><br><br><br><br><br><br><br><br><br><br>                                                                                                                                                   | <b>Samples processed by:</b><br><br><br><br> |
| <b>15. SAMPLE CONDITION</b><br>Sample(s) _____ were received after the recommended holding time had expired.<br>Sample(s) _____ were received in a broken container.<br>Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM) |                                              |
| <b>16. SAMPLE PRESERVATION</b><br>Sample(s) _____ were further preserved in the laboratory.<br>Time preserved: _____ Preservative(s) added/Lot number(s): _____                                                                                  |                                              |

*X:\X-Drive Document Control\SOPs\Work Instructions\Word Version Work Instructions\WI-NC-099H-071615 Cooler Receipt Form page 2 - Multiple Coolers.doc xls*



Temperature readings: \_\_\_\_\_

| <u>Client Sample ID</u> | <u>Lab ID</u> | <u>Container Type</u>                 | <u>Container</u><br><u>pH</u> | <u>Preservative</u><br><u>Added (mls)</u> | <u>Lot #</u> |
|-------------------------|---------------|---------------------------------------|-------------------------------|-------------------------------------------|--------------|
| MW-118WT_092716         | 240-70203-A-1 | Plastic 250ml - with Sodium Hydroxide | >12                           | _____                                     | _____        |
| MW-118WT_092716         | 240-70203-B-1 | Plastic 250ml - with Sodium Hydroxide | >12                           | _____                                     | _____        |
| MW-118WT_092716         | 240-70203-E-1 | Plastic 500ml - with Sulfuric Acid    | <2                            | _____                                     | _____        |
| MW-118WT_092716         | 240-70203-F-1 | Plastic 500ml - with Nitric Acid      | <2                            | _____                                     | _____        |
| MW-118S1_092716         | 240-70203-A-2 | Plastic 250ml - with Sodium Hydroxide | >12                           | _____                                     | _____        |
| MW-118S1_092716         | 240-70203-B-2 | Plastic 250ml - with Sodium Hydroxide | >12                           | _____                                     | _____        |
| MW-118S1_092716         | 240-70203-E-2 | Plastic 500ml - with Sulfuric Acid    | <2                            | _____                                     | _____        |
| MW-118S1_092716         | 240-70203-F-2 | Plastic 500ml - with Nitric Acid      | <2                            | _____                                     | _____        |
| MW-117WT_092716         | 240-70203-A-3 | Plastic 250ml - with Sodium Hydroxide | >12                           | _____                                     | _____        |
| MW-117WT_092716         | 240-70203-B-3 | Plastic 250ml - with Sodium Hydroxide | >12                           | _____                                     | _____        |
| MW-117WT_092716         | 240-70203-E-3 | Plastic 500ml - with Sulfuric Acid    | <2                            | _____                                     | _____        |
| MW-117WT_092716         | 240-70203-F-3 | Plastic 500ml - with Nitric Acid      | <2                            | _____                                     | _____        |
| MW-117S1_092716         | 240-70203-A-4 | Plastic 250ml - with Sodium Hydroxide | >12                           | _____                                     | _____        |
| MW-117S1_092716         | 240-70203-B-4 | Plastic 250ml - with Sodium Hydroxide | >12                           | _____                                     | _____        |
| MW-117S1_092716         | 240-70203-E-4 | Plastic 500ml - with Sulfuric Acid    | <2                            | _____                                     | _____        |
| MW-117S1_092716         | 240-70203-F-4 | Plastic 500ml - with Nitric Acid      | <2                            | _____                                     | _____        |

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-70225-1

Client Project/Site: RACER Saginaw Green Pt Landfill

For:

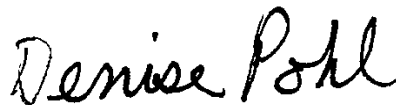
ARCADIS U.S. Inc

10559 Citation Drive

Suite 100

Brighton, Michigan 48116

Attn: Scott Clearwater



Authorized for release by:

10/25/2016 3:15:28 PM

Denise Pohl, Project Manager II

(330)966-9789

[denise.pohl@testamericainc.com](mailto:denise.pohl@testamericainc.com)

### LINKS

Review your project  
results through

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Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Definitions/Glossary

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70225-1

## Qualifiers

### Metals

| Qualifier | Qualifier Description                                                                                                                                     |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.                                            |
| B         | Compound was found in the blank and sample.                                                                                                               |
| 4         | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| ^         | ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.                                            |
| U         | Indicates the analyte was analyzed for but not detected.                                                                                                  |

### General Chemistry

| Qualifier | Qualifier Description                                                                                                                                     |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| HF        | Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.                                                      |
| F1        | MS and/or MSD Recovery is outside acceptance limits.                                                                                                      |
| U         | Indicates the analyte was analyzed for but not detected.                                                                                                  |
| B         | Compound was found in the blank and sample.                                                                                                               |
| 4         | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.                                            |

## Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| □              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery                                                                                            |
| CFL            | Contains Free Liquid                                                                                        |
| CNF            | Contains no Free Liquid                                                                                     |
| DER            | Duplicate error ratio (normalized absolute difference)                                                      |
| Dil Fac        | Dilution Factor                                                                                             |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DL             | Decision level concentration                                                                                |
| MDA            | Minimum detectable activity                                                                                 |
| EDL            | Estimated Detection Limit                                                                                   |
| MDC            | Minimum detectable concentration                                                                            |
| MDL            | Method Detection Limit                                                                                      |
| ML             | Minimum Level (Dioxin)                                                                                      |
| NC             | Not Calculated                                                                                              |
| ND             | Not detected at the reporting limit (or MDL or EDL if shown)                                                |
| PQL            | Practical Quantitation Limit                                                                                |
| QC             | Quality Control                                                                                             |
| RER            | Relative error ratio                                                                                        |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)                                                         |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                         |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                       |

# Case Narrative

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70225-1

**Job ID: 240-70225-1**

**Laboratory: TestAmerica Canton**

**Narrative**

## CASE NARRATIVE

**Client: ARCADIS U.S. Inc**

**Project: RACER Saginaw Green Pt Landfill**

**Report Number: 240-70225-1**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

### RECEIPT

The samples were received on 9/30/2016 9:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 1.4° C, 1.4° C, 1.6° C and 1.8° C.

### DISSOLVED METALS (ICPMS)

Samples X-9D\_092816 (240-70225-1), X-9CAUG\_092816 (240-70225-2), X-9AR\_092816 (240-70225-3) and X-9BR\_092816 (240-70225-4) were analyzed for dissolved metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were prepared on 10/04/2016 and 10/05/2016 and analyzed on 10/13/2016, 10/14/2016 and 10/17/2016.

Sodium failed the recovery criteria high for the MSD of sample X-9D\_092816MSD (240-70225-1) in batch 240-251858. Refer to the QC report for details.

Method(s) 6020: Some requested practical quantitation limits (PQLs) on the following samples fall below the laboratory's verified standard quantitation limit: X-9CAUG\_092816 (240-70225-2), X-9AR\_092816 (240-70225-3) and X-9BR\_092816 (240-70225-4). The continuing calibration blanks and method blanks may not support the lower PQL.

Method(s) 6020: The continuing calibration verification (CCV) associated with batch 240-251153 recovered above the upper control limit for arsenic. The samples associated with this CCV were below the requested reporting limit for the affected analytes; therefore, the data

## Case Narrative

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70225-1

### Job ID: 240-70225-1 (Continued)

#### Laboratory: TestAmerica Canton (Continued)

have been reported. The following samples are impacted: X-9CAUG\_092816 (240-70225-2), X-9AR\_092816 (240-70225-3) and X-9BR\_092816 (240-70225-4).

Method(s) 200.8, 6020, 6020A: Some requested practical quantitation limits (PQLs) on the following samples fall below the laboratory's verified standard quantitation limit: X-9D\_092816 (240-70225-1). The continuing calibration blanks and method blanks may not support the lower PQL.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### TOTAL RECOVERABLE METALS (ICPMS)

Samples X-9D\_092816 (240-70225-1), X-9CAUG\_092816 (240-70225-2), X-9AR\_092816 (240-70225-3) and X-9BR\_092816 (240-70225-4) were analyzed for total recoverable metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were prepared on 10/04/2016 and 10/05/2016 and analyzed on 10/13/2016, 10/14/2016 and 10/17/2016.

Sodium was detected in method blank MB 240-249956/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Sodium failed the recovery criteria high for the MS of sample X-9D\_092816MS (240-70225-1) in batch 240-251858. Refer to the QC report for details.

Sample X-9D\_092816 (240-70225-1)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Method(s) 6020: Some requested practical quantitation limits (PQLs) on the following samples fall below the laboratory's verified standard quantitation limit: X-9CAUG\_092816 (240-70225-2), X-9AR\_092816 (240-70225-3) and X-9BR\_092816 (240-70225-4). The continuing calibration blanks and method blanks may not support the lower PQL.

Method(s) 6020: The continuing calibration verification (CCV) associated with batch 240-251153 recovered above the upper control limit for arsenic. The samples associated with this CCV were below the requested reporting limit for the affected analytes; therefore, the data have been reported. The following samples are impacted: X-9CAUG\_092816 (240-70225-2), X-9AR\_092816 (240-70225-3) and X-9BR\_092816 (240-70225-4).

Method(s) 200.8, 6020, 6020A: Some requested practical quantitation limits (PQLs) on the following samples fall below the laboratory's verified standard quantitation limit: X-9D\_092816 (240-70225-1). The continuing calibration blanks and method blanks may not support the lower PQL.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### TOTAL DISSOLVED SOLIDS

Samples X-9D\_092816 (240-70225-1), X-9CAUG\_092816 (240-70225-2), X-9AR\_092816 (240-70225-3) and X-9BR\_092816 (240-70225-4) were analyzed for total dissolved solids in accordance with SM 2540C. The samples were analyzed on 10/05/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### ANIONS

Samples X-9D\_092816 (240-70225-1), X-9CAUG\_092816 (240-70225-2), X-9AR\_092816 (240-70225-3) and X-9BR\_092816 (240-70225-4) were analyzed for anions in accordance with EPA Method 300.0. The samples were analyzed on 10/01/2016, 10/05/2016 and 10/07/2016.

Chloride failed the recovery criteria low for the MS/MSD of sample X-9D\_092816MS/MSD (240-70225-1) in batch 240-250216. Refer to the QC report for details.

Samples X-9D\_092816 (240-70225-1)[20X], X-9CAUG\_092816 (240-70225-2)[5X] and X-9BR\_092816 (240-70225-4)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

## Case Narrative

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70225-1

### Job ID: 240-70225-1 (Continued)

#### Laboratory: TestAmerica Canton (Continued)

Method(s) 300.0, 9056A: The following sample was diluted due to the nature of the sample matrix: X-9D\_092816 (240-70225-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### NITRATE-NITRITE AS NITROGEN

Samples X-9D\_092816 (240-70225-1), X-9CAUG\_092816 (240-70225-2), X-9AR\_092816 (240-70225-3) and X-9BR\_092816 (240-70225-4) were analyzed for nitrate-nitrite as nitrogen in accordance with EPA Method 353.2. The samples were analyzed on 10/05/2016.

Nitrate Nitrite as N failed the recovery criteria low for the MS of sample X-9D\_092816MS (240-70225-1) in batch 240-250127. Nitrate Nitrite as N failed the recovery criteria low for the MSD of sample X-9D\_092816MSD (240-70225-1) in batch 240-250127. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### DISSOLVED CYANIDE

Samples X-9D\_092816 (240-70225-1), X-9CAUG\_092816 (240-70225-2), X-9AR\_092816 (240-70225-3) and X-9BR\_092816 (240-70225-4) were analyzed for dissolved cyanide in accordance with EPA SW-846 Method 9012A. The samples were prepared and analyzed on 10/06/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### TOTAL CYANIDE

Samples X-9D\_092816 (240-70225-1), X-9CAUG\_092816 (240-70225-2), X-9AR\_092816 (240-70225-3) and X-9BR\_092816 (240-70225-4) were analyzed for total cyanide in accordance with EPA SW-846 Method 9012A. The samples were prepared and analyzed on 10/06/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### PH

Samples X-9D\_092816 (240-70225-1), X-9CAUG\_092816 (240-70225-2), X-9AR\_092816 (240-70225-3) and X-9BR\_092816 (240-70225-4) were analyzed for pH in accordance with SM 4500 H+ B. The samples were analyzed on 09/30/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### AMMONIA

Samples X-9D\_092816 (240-70225-1), X-9CAUG\_092816 (240-70225-2), X-9AR\_092816 (240-70225-3) and X-9BR\_092816 (240-70225-4) were analyzed for ammonia in accordance with SM 4500 NH3 D. The samples were analyzed on 10/12/2016.

Ammonia (as N) was detected in method blank MB 240-251043/7 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Samples X-9D\_092816 (240-70225-1)[2X] and X-9BR\_092816 (240-70225-4)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.



## Method Summary

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70225-1

| Method         | Method Description             | Protocol | Laboratory |
|----------------|--------------------------------|----------|------------|
| 6020           | Metals (ICP/MS)                | SW846    | TAL CAN    |
| 300.0          | Anions, Ion Chromatography     | MCAWW    | TAL CAN    |
| 353.2          | Nitrogen, Nitrate-Nitrite      | MCAWW    | TAL CAN    |
| 4500 H+ B-2000 | pH                             | SM       | TAL CAN    |
| 9012A          | Cyanide, Total and/or Amenable | SW846    | TAL CAN    |
| SM 2540C       | Solids, Total Dissolved (TDS)  | SM       | TAL CAN    |
| SM 4500 NH3 D  | Ammonia                        | SM       | TAL CAN    |

### Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

### Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

## Sample Summary

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70225-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 240-70225-1   | X-9D_092816      | Water  | 09/28/16 07:30 | 09/30/16 09:10 |
| 240-70225-2   | X-9CAUG_092816   | Water  | 09/28/16 08:55 | 09/30/16 09:10 |
| 240-70225-3   | X-9AR_092816     | Water  | 09/28/16 10:55 | 09/30/16 09:10 |
| 240-70225-4   | X-9BR_092816     | Water  | 09/28/16 11:00 | 09/30/16 09:10 |

# Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70225-1

**Client Sample ID: X-9D\_092816**

**Date Collected: 09/28/16 07:30**

**Date Received: 09/30/16 09:10**

**Lab Sample ID: 240-70225-1**

**Matrix: Water**

## Method: 6020 - Metals (ICP/MS) - Total Recoverable

| Analyte   | Result | Qualifier | RL   | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Arsenic   | 3.8    |           | 2.0  | 0.35 | ug/L |   | 10/05/16 14:00 | 10/14/16 18:56 | 1       |
| Barium    | 94     |           | 5.0  | 0.52 | ug/L |   | 10/05/16 14:00 | 10/14/16 18:56 | 1       |
| Iron      | 1500   |           | 50   | 5.3  | ug/L |   | 10/05/16 14:00 | 10/14/16 18:56 | 1       |
| Manganese | 130    |           | 2.0  | 0.25 | ug/L |   | 10/05/16 14:00 | 10/14/16 18:56 | 1       |
| Selenium  | 0.52   | J         | 5.0  | 0.48 | ug/L |   | 10/05/16 14:00 | 10/14/16 18:56 | 1       |
| Sodium    | 630000 | B         | 2000 | 28   | ug/L |   | 10/05/16 14:00 | 10/17/16 22:30 | 2       |

## Method: 6020 - Metals (ICP/MS) - Dissolved

| Analyte   | Result | Qualifier | RL   | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Arsenic   | 5.0    |           | 2.0  | 0.35 | ug/L |   | 10/05/16 14:00 | 10/14/16 19:16 | 1       |
| Barium    | 91     |           | 5.0  | 0.52 | ug/L |   | 10/05/16 14:00 | 10/14/16 19:16 | 1       |
| Iron      | 2200   |           | 50   | 5.3  | ug/L |   | 10/05/16 14:00 | 10/14/16 19:16 | 1       |
| Manganese | 120    |           | 2.0  | 0.25 | ug/L |   | 10/05/16 14:00 | 10/14/16 19:16 | 1       |
| Selenium  | 0.70   | J         | 5.0  | 0.48 | ug/L |   | 10/05/16 14:00 | 10/14/16 19:16 | 1       |
| Sodium    | 630000 | B         | 2000 | 28   | ug/L |   | 10/05/16 14:00 | 10/17/16 22:51 | 2       |

## General Chemistry

| Analyte                | Result | Qualifier | RL    | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Chloride               | 1300   |           | 20    | 8.1    | mg/L |   |                | 10/07/16 00:57 | 20      |
| Sulfate                | 240    |           | 20    | 2.6    | mg/L |   |                | 10/07/16 00:57 | 20      |
| Nitrate Nitrite as N   | 0.050  | U F1      | 0.050 | 0.0073 | mg/L |   |                | 10/05/16 20:22 | 1       |
| pH                     | 7.4    | HF        | 0.1   | 0.1    | SU   |   |                | 09/30/16 15:14 | 1       |
| Cyanide, Total         | 0.010  | U         | 0.010 | 0.0050 | mg/L |   | 10/06/16 08:21 | 10/06/16 10:57 | 1       |
| Total Dissolved Solids | 2300   |           | 50    | 37     | mg/L |   |                | 10/05/16 10:51 | 1       |
| Ammonia (as N)         | 6.7    | B         | 0.40  | 0.066  | mg/L |   |                | 10/12/16 07:45 | 2       |

## General Chemistry - Dissolved

| Analyte        | Result | Qualifier | RL    | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------|--------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Cyanide, Total | 0.010  | U         | 0.010 | 0.0050 | mg/L |   | 10/06/16 08:21 | 10/06/16 10:57 | 1       |

TestAmerica Canton

# Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70225-1

**Client Sample ID: X-9CAUG\_092816**

**Date Collected: 09/28/16 08:55**

**Date Received: 09/30/16 09:10**

**Lab Sample ID: 240-70225-2**

**Matrix: Water**

## Method: 6020 - Metals (ICP/MS) - Total Recoverable

| Analyte   | Result | Qualifier | RL   | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Arsenic   | 0.97   | J ^       | 2.0  | 0.35 | ug/L |   | 10/04/16 14:00 | 10/13/16 01:18 | 1       |
| Barium    | 260    |           | 5.0  | 0.52 | ug/L |   | 10/04/16 14:00 | 10/13/16 16:29 | 1       |
| Iron      | 8400   |           | 50   | 5.3  | ug/L |   | 10/04/16 14:00 | 10/13/16 01:18 | 1       |
| Manganese | 740    |           | 2.0  | 0.25 | ug/L |   | 10/04/16 14:00 | 10/13/16 01:18 | 1       |
| Selenium  | 0.89   | J         | 5.0  | 0.48 | ug/L |   | 10/04/16 14:00 | 10/13/16 01:18 | 1       |
| Sodium    | 120000 |           | 1000 | 14   | ug/L |   | 10/04/16 14:00 | 10/13/16 01:18 | 1       |

## Method: 6020 - Metals (ICP/MS) - Dissolved

| Analyte   | Result | Qualifier | RL   | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Arsenic   | 1.0    | J ^       | 2.0  | 0.35 | ug/L |   | 10/04/16 14:00 | 10/13/16 01:31 | 1       |
| Barium    | 250    |           | 5.0  | 0.52 | ug/L |   | 10/04/16 14:00 | 10/13/16 16:33 | 1       |
| Iron      | 9900   |           | 50   | 5.3  | ug/L |   | 10/04/16 14:00 | 10/13/16 01:31 | 1       |
| Manganese | 690    |           | 2.0  | 0.25 | ug/L |   | 10/04/16 14:00 | 10/13/16 01:31 | 1       |
| Selenium  | 0.57   | J         | 5.0  | 0.48 | ug/L |   | 10/04/16 14:00 | 10/13/16 01:31 | 1       |
| Sodium    | 110000 |           | 1000 | 14   | ug/L |   | 10/04/16 14:00 | 10/13/16 01:31 | 1       |

## General Chemistry

| Analyte                | Result | Qualifier | RL    | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Chloride               | 190    |           | 5.0   | 2.0    | mg/L |   |                | 10/05/16 10:53 | 5       |
| Sulfate                | 1.0    | U         | 1.0   | 0.13   | mg/L |   |                | 10/01/16 00:50 | 1       |
| Nitrate Nitrite as N   | 0.050  | U         | 0.050 | 0.0073 | mg/L |   |                | 10/05/16 20:25 | 1       |
| pH                     | 7.1    | HF        | 0.1   | 0.1    | SU   |   |                | 09/30/16 15:30 | 1       |
| Cyanide, Total         | 0.010  | U         | 0.010 | 0.0050 | mg/L |   | 10/06/16 08:26 | 10/06/16 10:59 | 1       |
| Total Dissolved Solids | 830    |           | 10    | 7.4    | mg/L |   |                | 10/05/16 10:51 | 1       |
| Ammonia (as N)         | 4.4    | B         | 0.20  | 0.033  | mg/L |   |                | 10/12/16 08:01 | 1       |

## General Chemistry - Dissolved

| Analyte        | Result | Qualifier | RL    | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------|--------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Cyanide, Total | 0.010  | U         | 0.010 | 0.0050 | mg/L |   | 10/06/16 08:21 | 10/06/16 10:57 | 1       |

TestAmerica Canton

# Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70225-1

**Client Sample ID: X-9AR\_092816**

**Date Collected: 09/28/16 10:55**

**Date Received: 09/30/16 09:10**

**Lab Sample ID: 240-70225-3**

**Matrix: Water**

## Method: 6020 - Metals (ICP/MS) - Total Recoverable

| Analyte   | Result | Qualifier | RL   | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Arsenic   | 0.50   | J ^       | 2.0  | 0.35 | ug/L |   | 10/04/16 14:00 | 10/13/16 01:35 | 1       |
| Barium    | 100    |           | 5.0  | 0.52 | ug/L |   | 10/04/16 14:00 | 10/13/16 16:38 | 1       |
| Iron      | 5600   |           | 50   | 5.3  | ug/L |   | 10/04/16 14:00 | 10/13/16 01:35 | 1       |
| Manganese | 360    |           | 2.0  | 0.25 | ug/L |   | 10/04/16 14:00 | 10/13/16 01:35 | 1       |
| Selenium  | 0.62   | J         | 5.0  | 0.48 | ug/L |   | 10/04/16 14:00 | 10/13/16 01:35 | 1       |
| Sodium    | 39000  |           | 1000 | 14   | ug/L |   | 10/04/16 14:00 | 10/13/16 01:35 | 1       |

## Method: 6020 - Metals (ICP/MS) - Dissolved

| Analyte   | Result | Qualifier | RL   | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Arsenic   | 0.61   | J ^       | 2.0  | 0.35 | ug/L |   | 10/04/16 14:00 | 10/13/16 01:39 | 1       |
| Barium    | 97     |           | 5.0  | 0.52 | ug/L |   | 10/04/16 14:00 | 10/13/16 16:42 | 1       |
| Iron      | 5500   |           | 50   | 5.3  | ug/L |   | 10/04/16 14:00 | 10/13/16 01:39 | 1       |
| Manganese | 360    |           | 2.0  | 0.25 | ug/L |   | 10/04/16 14:00 | 10/13/16 01:39 | 1       |
| Selenium  | 0.67   | J         | 5.0  | 0.48 | ug/L |   | 10/04/16 14:00 | 10/13/16 01:39 | 1       |
| Sodium    | 38000  |           | 1000 | 14   | ug/L |   | 10/04/16 14:00 | 10/13/16 01:39 | 1       |

## General Chemistry

| Analyte                | Result | Qualifier | RL    | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Chloride               | 15     |           | 1.0   | 0.41   | mg/L |   |                | 10/05/16 11:13 | 1       |
| Sulfate                | 1.0    | U         | 1.0   | 0.13   | mg/L |   |                | 10/01/16 01:06 | 1       |
| Nitrate Nitrite as N   | 0.050  | U         | 0.050 | 0.0073 | mg/L |   |                | 10/05/16 20:26 | 1       |
| pH                     | 7.1    | HF        | 0.1   | 0.1    | SU   |   |                | 09/30/16 15:22 | 1       |
| Cyanide, Total         | 0.010  | U         | 0.010 | 0.0050 | mg/L |   | 10/06/16 13:44 | 10/06/16 15:59 | 1       |
| Total Dissolved Solids | 630    |           | 10    | 7.4    | mg/L |   |                | 10/05/16 14:33 | 1       |
| Ammonia (as N)         | 0.56   | B         | 0.20  | 0.033  | mg/L |   |                | 10/12/16 08:11 | 1       |

## General Chemistry - Dissolved

| Analyte        | Result | Qualifier | RL    | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------|--------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Cyanide, Total | 0.010  | U         | 0.010 | 0.0050 | mg/L |   | 10/06/16 13:44 | 10/06/16 15:59 | 1       |

TestAmerica Canton

# Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70225-1

**Client Sample ID: X-9BR\_092816**

**Date Collected: 09/28/16 11:00**

**Date Received: 09/30/16 09:10**

**Lab Sample ID: 240-70225-4**

**Matrix: Water**

## Method: 6020 - Metals (ICP/MS) - Total Recoverable

| Analyte   | Result | Qualifier | RL   | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Arsenic   | 1.7    | J ^       | 2.0  | 0.35 | ug/L |   | 10/04/16 14:00 | 10/13/16 01:44 | 1       |
| Barium    | 150    |           | 5.0  | 0.52 | ug/L |   | 10/04/16 14:00 | 10/13/16 16:46 | 1       |
| Iron      | 7500   |           | 50   | 5.3  | ug/L |   | 10/04/16 14:00 | 10/13/16 01:44 | 1       |
| Manganese | 550    |           | 2.0  | 0.25 | ug/L |   | 10/04/16 14:00 | 10/13/16 01:44 | 1       |
| Selenium  | 0.72   | J         | 5.0  | 0.48 | ug/L |   | 10/04/16 14:00 | 10/13/16 01:44 | 1       |
| Sodium    | 230000 |           | 1000 | 14   | ug/L |   | 10/04/16 14:00 | 10/13/16 01:44 | 1       |

## Method: 6020 - Metals (ICP/MS) - Dissolved

| Analyte   | Result | Qualifier | RL   | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Arsenic   | 1.8    | J ^       | 2.0  | 0.35 | ug/L |   | 10/04/16 14:00 | 10/13/16 01:48 | 1       |
| Barium    | 150    |           | 5.0  | 0.52 | ug/L |   | 10/04/16 14:00 | 10/13/16 16:50 | 1       |
| Iron      | 7900   |           | 50   | 5.3  | ug/L |   | 10/04/16 14:00 | 10/13/16 01:48 | 1       |
| Manganese | 530    |           | 2.0  | 0.25 | ug/L |   | 10/04/16 14:00 | 10/13/16 01:48 | 1       |
| Selenium  | 0.70   | J         | 5.0  | 0.48 | ug/L |   | 10/04/16 14:00 | 10/13/16 01:48 | 1       |
| Sodium    | 240000 |           | 1000 | 14   | ug/L |   | 10/04/16 14:00 | 10/13/16 01:48 | 1       |

## General Chemistry

| Analyte                | Result | Qualifier | RL    | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Chloride               | 280    |           | 5.0   | 2.0    | mg/L |   |                | 10/05/16 11:33 | 5       |
| Sulfate                | 1.0    | U         | 1.0   | 0.13   | mg/L |   |                | 10/01/16 00:17 | 1       |
| Nitrate Nitrite as N   | 0.050  | U         | 0.050 | 0.0073 | mg/L |   |                | 10/05/16 20:27 | 1       |
| pH                     | 7.2    | HF        | 0.1   | 0.1    | SU   |   |                | 09/30/16 15:38 | 1       |
| Cyanide, Total         | 0.010  | U         | 0.010 | 0.0050 | mg/L |   | 10/06/16 13:44 | 10/06/16 15:59 | 1       |
| Total Dissolved Solids | 990    |           | 20    | 15     | mg/L |   |                | 10/05/16 14:33 | 1       |
| Ammonia (as N)         | 6.8    | B         | 0.40  | 0.066  | mg/L |   |                | 10/12/16 08:23 | 2       |

## General Chemistry - Dissolved

| Analyte        | Result | Qualifier | RL    | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------|--------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Cyanide, Total | 0.010  | U         | 0.010 | 0.0050 | mg/L |   | 10/06/16 13:44 | 10/06/16 15:59 | 1       |

TestAmerica Canton

# QC Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70225-1

## Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 240-249703/1-A

Matrix: Water

Analysis Batch: 251370

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 249703

| Analyte   | MB Result | MB Qualifier | RL   | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|-----------|--------------|------|------|------|---|----------------|----------------|---------|
| Arsenic   | 2.0       | U            | 2.0  | 0.35 | ug/L |   | 10/04/16 14:00 | 10/13/16 15:47 | 1       |
| Barium    | 5.0       | U            | 5.0  | 0.52 | ug/L |   | 10/04/16 14:00 | 10/13/16 15:47 | 1       |
| Iron      | 50        | U            | 50   | 5.3  | ug/L |   | 10/04/16 14:00 | 10/13/16 15:47 | 1       |
| Manganese | 2.0       | U            | 2.0  | 0.25 | ug/L |   | 10/04/16 14:00 | 10/13/16 15:47 | 1       |
| Selenium  | 5.0       | U            | 5.0  | 0.48 | ug/L |   | 10/04/16 14:00 | 10/13/16 15:47 | 1       |
| Sodium    | 1000      | U            | 1000 | 14   | ug/L |   | 10/04/16 14:00 | 10/13/16 15:47 | 1       |

Lab Sample ID: LCS 240-249703/2-A

Matrix: Water

Analysis Batch: 251370

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 249703

| Analyte   | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------|-------------|------------|---------------|------|---|------|--------------|
| Arsenic   | 1000        | 1000       |               | ug/L |   | 100  | 80 - 120     |
| Barium    | 1000        | 1060       |               | ug/L |   | 106  | 80 - 120     |
| Iron      | 10000       | 10400      |               | ug/L |   | 104  | 80 - 120     |
| Manganese | 1000        | 1040       |               | ug/L |   | 104  | 80 - 120     |
| Selenium  | 1000        | 1040       |               | ug/L |   | 104  | 80 - 120     |
| Sodium    | 10000       | 10300      |               | ug/L |   | 103  | 80 - 120     |

Lab Sample ID: MB 240-249956/1-A

Matrix: Water

Analysis Batch: 251645

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 249956

| Analyte   | MB Result | MB Qualifier | RL   | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|-----------|--------------|------|------|------|---|----------------|----------------|---------|
| Arsenic   | 2.0       | U            | 2.0  | 0.35 | ug/L |   | 10/05/16 14:00 | 10/14/16 18:47 | 1       |
| Barium    | 5.0       | U            | 5.0  | 0.52 | ug/L |   | 10/05/16 14:00 | 10/14/16 18:47 | 1       |
| Iron      | 50        | U            | 50   | 5.3  | ug/L |   | 10/05/16 14:00 | 10/14/16 18:47 | 1       |
| Manganese | 2.0       | U            | 2.0  | 0.25 | ug/L |   | 10/05/16 14:00 | 10/14/16 18:47 | 1       |
| Selenium  | 5.0       | U            | 5.0  | 0.48 | ug/L |   | 10/05/16 14:00 | 10/14/16 18:47 | 1       |
| Sodium    | 26.2      | J            | 1000 | 14   | ug/L |   | 10/05/16 14:00 | 10/14/16 18:47 | 1       |

Lab Sample ID: LCS 240-249956/21-A

Matrix: Water

Analysis Batch: 251645

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 249956

| Analyte   | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------|-------------|------------|---------------|------|---|------|--------------|
| Arsenic   | 1000        | 953        |               | ug/L |   | 95   | 80 - 120     |
| Barium    | 1000        | 1070       |               | ug/L |   | 107  | 80 - 120     |
| Iron      | 10000       | 10600      |               | ug/L |   | 106  | 80 - 120     |
| Manganese | 1000        | 1050       |               | ug/L |   | 105  | 80 - 120     |
| Selenium  | 1000        | 973        |               | ug/L |   | 97   | 80 - 120     |
| Sodium    | 10000       | 10100      |               | ug/L |   | 101  | 80 - 120     |

Lab Sample ID: 240-70225-1 MS

Matrix: Water

Analysis Batch: 251645

Client Sample ID: X-9D\_092816

Prep Type: Total Recoverable

Prep Batch: 249956

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Arsenic | 3.8           |                  | 1000        | 1020      |              | ug/L |   | 101  | 75 - 125     |

TestAmerica Canton



# QC Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70225-1

## Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 240-70225-1 MS

Matrix: Water

Analysis Batch: 251645

Client Sample ID: X-9D\_092816

Prep Type: Total Recoverable

Prep Batch: 249956

| Analyte   | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Barium    | 94            |                  | 1000        | 1270      |              | ug/L |   | 117  | 75 - 125     |
| Iron      | 1500          |                  | 10000       | 11000     |              | ug/L |   | 95   | 75 - 125     |
| Manganese | 130           |                  | 1000        | 1110      |              | ug/L |   | 98   | 75 - 125     |
| Selenium  | 0.52          | J                | 1000        | 965       |              | ug/L |   | 96   | 75 - 125     |

Lab Sample ID: 240-70225-1 MS

Matrix: Water

Analysis Batch: 251858

Client Sample ID: X-9D\_092816

Prep Type: Total Recoverable

Prep Batch: 249956

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Sodium  | 630000        | B                | 10000       | 641000    | 4            | ug/L |   | 137  | 75 - 125     |

Lab Sample ID: 240-70225-1 MSD

Matrix: Water

Analysis Batch: 251645

Client Sample ID: X-9D\_092816

Prep Type: Total Recoverable

Prep Batch: 249956

| Analyte   | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | Limit |
|-----------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-------|
| Arsenic   | 3.8           |                  | 1000        | 988        |               | ug/L |   | 98   | 75 - 125     | 3   | 20    |
| Barium    | 94            |                  | 1000        | 1270       |               | ug/L |   | 118  | 75 - 125     | 0   | 20    |
| Iron      | 1500          |                  | 10000       | 11100      |               | ug/L |   | 96   | 75 - 125     | 1   | 20    |
| Manganese | 130           |                  | 1000        | 1120       |               | ug/L |   | 99   | 75 - 125     | 1   | 20    |
| Selenium  | 0.52          | J                | 1000        | 949        |               | ug/L |   | 95   | 75 - 125     | 2   | 20    |

Lab Sample ID: 240-70225-1 MSD

Matrix: Water

Analysis Batch: 251858

Client Sample ID: X-9D\_092816

Prep Type: Total Recoverable

Prep Batch: 249956

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | Limit |
|---------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-------|
| Sodium  | 630000        | B                | 10000       | 639000     | 4             | ug/L |   | 123  | 75 - 125     | 0   | 20    |

Lab Sample ID: 240-70225-1 MS

Matrix: Water

Analysis Batch: 251645

Client Sample ID: X-9D\_092816

Prep Type: Dissolved

Prep Batch: 249956

| Analyte   | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Arsenic   | 5.0           |                  | 1000        | 992       |              | ug/L |   | 99   | 75 - 125     |
| Barium    | 91            |                  | 1000        | 1240      |              | ug/L |   | 115  | 75 - 125     |
| Iron      | 2200          |                  | 10000       | 11800     |              | ug/L |   | 96   | 75 - 125     |
| Manganese | 120           |                  | 1000        | 1110      |              | ug/L |   | 98   | 75 - 125     |
| Selenium  | 0.70          | J                | 1000        | 954       |              | ug/L |   | 95   | 75 - 125     |

Lab Sample ID: 240-70225-1 MS

Matrix: Water

Analysis Batch: 251858

Client Sample ID: X-9D\_092816

Prep Type: Dissolved

Prep Batch: 249956

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Sodium  | 630000        | B                | 10000       | 644000    | 4            | ug/L |   | 116  | 75 - 125     |

TestAmerica Canton

# QC Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70225-1

## Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 240-70225-1 MSD

Matrix: Water

Analysis Batch: 251645

Client Sample ID: X-9D\_092816

Prep Type: Dissolved

Prep Batch: 249956

| Analyte   | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-----------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Arsenic   | 5.0           |                  | 1000        | 981        |               | ug/L |   | 98   | 75 - 125     | 1   | 20        |
| Barium    | 91            |                  | 1000        | 1210       |               | ug/L |   | 112  | 75 - 125     | 2   | 20        |
| Iron      | 2200          |                  | 10000       | 11600      |               | ug/L |   | 94   | 75 - 125     | 2   | 20        |
| Manganese | 120           |                  | 1000        | 1090       |               | ug/L |   | 97   | 75 - 125     | 1   | 20        |
| Selenium  | 0.70          | J                | 1000        | 954        |               | ug/L |   | 95   | 75 - 125     | 0   | 20        |

Lab Sample ID: 240-70225-1 MSD

Matrix: Water

Analysis Batch: 251858

Client Sample ID: X-9D\_092816

Prep Type: Dissolved

Prep Batch: 249956

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Sodium  | 630000        | B                | 10000       | 646000     | 4             | ug/L |   | 130  | 75 - 125     | 0   | 20        |

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 240-249194/39

Matrix: Water

Analysis Batch: 249194

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte  | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| Chloride | 1.0       | U            | 1.0 | 0.41 | mg/L |   |          | 09/30/16 19:54 | 1       |
| Sulfate  | 1.0       | U            | 1.0 | 0.13 | mg/L |   |          | 09/30/16 19:54 | 1       |

Lab Sample ID: LCS 240-249194/40

Matrix: Water

Analysis Batch: 249194

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| Chloride | 50.0        | 54.0       |               | mg/L |   | 108  | 90 - 110     |
| Sulfate  | 50.0        | 50.5       |               | mg/L |   | 101  | 90 - 110     |

Lab Sample ID: 240-70225-1 MS

Matrix: Water

Analysis Batch: 249194

Client Sample ID: X-9D\_092816

Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Sulfate | 210           |                  | 50.0        | 252       | 4            | mg/L |   | 82   | 80 - 120     |

Lab Sample ID: 240-70225-1 MSD

Matrix: Water

Analysis Batch: 249194

Client Sample ID: X-9D\_092816

Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Sulfate | 210           |                  | 50.0        | 253        | 4             | mg/L |   | 84   | 80 - 120     | 1   | 15        |

TestAmerica Canton

# QC Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70225-1

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 240-249797/3

Matrix: Water

Analysis Batch: 249797

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte  | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| Chloride | 1.0       | U            | 1.0 | 0.41 | mg/L |   |          | 10/05/16 05:30 | 1       |
| Sulfate  | 1.0       | U            | 1.0 | 0.13 | mg/L |   |          | 10/05/16 05:30 | 1       |

Lab Sample ID: LCS 240-249797/4

Matrix: Water

Analysis Batch: 249797

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| Chloride | 50.0        | 51.2       |               | mg/L |   | 102  | 90 - 110     |
| Sulfate  | 50.0        | 52.4       |               | mg/L |   | 105  | 90 - 110     |

Lab Sample ID: MB 240-250216/27

Matrix: Water

Analysis Batch: 250216

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte  | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| Chloride | 1.0       | U            | 1.0 | 0.41 | mg/L |   |          | 10/06/16 23:36 | 1       |
| Sulfate  | 1.0       | U            | 1.0 | 0.13 | mg/L |   |          | 10/06/16 23:36 | 1       |

Lab Sample ID: LCS 240-250216/28

Matrix: Water

Analysis Batch: 250216

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| Chloride | 50.0        | 51.8       |               | mg/L |   | 104  | 90 - 110     |
| Sulfate  | 50.0        | 53.3       |               | mg/L |   | 107  | 90 - 110     |

Lab Sample ID: 240-70225-1 MS

Matrix: Water

Analysis Batch: 250216

Client Sample ID: X-9D\_092816

Prep Type: Total/NA

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Chloride | 1300          |                  | 50.0        | 1300      | 4            | mg/L |   | -10  | 80 - 120     |
| Sulfate  | 240           |                  | 50.0        | 285       | 4            | mg/L |   | 93   | 80 - 120     |

Lab Sample ID: 240-70225-1 MSD

Matrix: Water

Analysis Batch: 250216

Client Sample ID: X-9D\_092816

Prep Type: Total/NA

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Chloride | 1300          |                  | 50.0        | 1300       | 4             | mg/L |   | -2   | 80 - 120     | 0   | 15        |
| Sulfate  | 240           |                  | 50.0        | 285        | 4             | mg/L |   | 93   | 80 - 120     | 0   | 15        |

TestAmerica Canton

# QC Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70225-1

## Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 240-250127/4

Matrix: Water

Analysis Batch: 250127

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte              | MB Result | MB Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|-----------|--------------|-------|--------|------|---|----------|----------------|---------|
| Nitrate Nitrite as N | 0.050     | U            | 0.050 | 0.0073 | mg/L |   |          | 10/05/16 20:19 | 1       |

Lab Sample ID: LCS 240-250127/5

Matrix: Water

Analysis Batch: 250127

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte              | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------------|-------------|------------|---------------|------|---|------|--------------|
| Nitrate Nitrite as N | 1.93        | 2.08       |               | mg/L |   | 108  | 90 - 110     |

Lab Sample ID: 240-70225-1 MS

Matrix: Water

Analysis Batch: 250127

Client Sample ID: X-9D\_092816

Prep Type: Total/NA

| Analyte              | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Nitrate Nitrite as N | 0.050         | U F1             | 1.00        | 0.794     | F1           | mg/L |   | 79   | 90 - 110     |

Lab Sample ID: 240-70225-1 MSD

Matrix: Water

Analysis Batch: 250127

Client Sample ID: X-9D\_092816

Prep Type: Total/NA

| Analyte              | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------------------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Nitrate Nitrite as N | 0.050         | U F1             | 1.00        | 0.773      | F1            | mg/L |   | 77   | 90 - 110     | 3   | 20        |

## Method: 4500 H+ B-2000 - pH

Lab Sample ID: LCS 240-249177/29

Matrix: Water

Analysis Batch: 249177

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|------|---|------|--------------|
| pH      | 9.14        | 9.2        |               | SU   |   | 101  | 97 - 103     |

## Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 240-250090/1-A

Matrix: Water

Analysis Batch: 250150

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 250090

| Analyte        | MB Result | MB Qualifier | RL    | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|--------------|-------|--------|------|---|----------------|----------------|---------|
| Cyanide, Total | 0.010     | U            | 0.010 | 0.0050 | mg/L |   | 10/06/16 08:21 | 10/06/16 10:51 | 1       |

Lab Sample ID: LCS 240-250090/2-A

Matrix: Water

Analysis Batch: 250150

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 250090

| Analyte        | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------|-------------|------------|---------------|------|---|------|--------------|
| Cyanide, Total | 0.0400      | 0.0366     |               | mg/L |   | 91   | 59 - 129     |

TestAmerica Canton

# QC Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70225-1

## Method: 9012A - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: 240-70225-1 MS

Matrix: Water

Analysis Batch: 250150

Client Sample ID: X-9D\_092816

Prep Type: Total/NA

Prep Batch: 250090

| Analyte        | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Cyanide, Total | 0.010         | U                | 0.0400      | 0.0362    |              | mg/L |   | 90   | 22 - 135     |

Lab Sample ID: 240-70225-1 MSD

Matrix: Water

Analysis Batch: 250150

Client Sample ID: X-9D\_092816

Prep Type: Total/NA

Prep Batch: 250090

| Analyte        | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | Limit |
|----------------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-------|
| Cyanide, Total | 0.010         | U                | 0.0400      | 0.0326     |               | mg/L |   | 82   | 22 - 135     | 10  | 40    |

Lab Sample ID: MRL 240-250150/6

Matrix: Water

Analysis Batch: 250150

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte        | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------|-------------|------------|---------------|------|---|------|--------------|
| Cyanide, Total | 0.0100      | 0.00848    | J             | mg/L |   | 85   | 70 - 130     |

Lab Sample ID: MB 240-250202/1-A

Matrix: Water

Analysis Batch: 250242

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 250202

| Analyte        | MB Result | MB Qualifier | RL    | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|--------------|-------|--------|------|---|----------------|----------------|---------|
| Cyanide, Total | 0.010     | U            | 0.010 | 0.0050 | mg/L |   | 10/06/16 13:44 | 10/06/16 15:53 | 1       |

Lab Sample ID: LCS 240-250202/2-A

Matrix: Water

Analysis Batch: 250242

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 250202

| Analyte        | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------|-------------|------------|---------------|------|---|------|--------------|
| Cyanide, Total | 0.0400      | 0.0374     |               | mg/L |   | 94   | 59 - 129     |

Lab Sample ID: 240-70225-1 MS

Matrix: Water

Analysis Batch: 250150

Client Sample ID: X-9D\_092816

Prep Type: Dissolved

Prep Batch: 250090

| Analyte        | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Cyanide, Total | 0.010         | U                | 0.0400      | 0.0389    |              | mg/L |   | 97   | 22 - 135     |

Lab Sample ID: 240-70225-1 MSD

Matrix: Water

Analysis Batch: 250150

Client Sample ID: X-9D\_092816

Prep Type: Dissolved

Prep Batch: 250090

| Analyte        | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | Limit |
|----------------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-------|
| Cyanide, Total | 0.010         | U                | 0.0400      | 0.0360     |               | mg/L |   | 90   | 22 - 135     | 8   | 40    |

TestAmerica Canton

# QC Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70225-1

## Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 240-249923/1

Matrix: Water

Analysis Batch: 249923

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|-----------|--------------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 10        | U            | 10 | 7.4 | mg/L | - |          | 10/05/16 10:51 | 1       |

Lab Sample ID: LCS 240-249923/2

Matrix: Water

Analysis Batch: 249923

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------|-------------|------------|---------------|------|---|------|--------------|
| Total Dissolved Solids | 216         | 224        |               | mg/L | - | 104  | 80 - 120     |

Lab Sample ID: MB 240-249998/1

Matrix: Water

Analysis Batch: 249998

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|-----------|--------------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 10        | U            | 10 | 7.4 | mg/L | - |          | 10/05/16 14:33 | 1       |

Lab Sample ID: LCS 240-249998/2

Matrix: Water

Analysis Batch: 249998

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------|-------------|------------|---------------|------|---|------|--------------|
| Total Dissolved Solids | 216         | 222        |               | mg/L | - | 103  | 80 - 120     |

Lab Sample ID: 240-70225-3 DU

Matrix: Water

Analysis Batch: 249998

Client Sample ID: X-9AR\_092816

Prep Type: Total/NA

| Analyte                | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|------------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Total Dissolved Solids | 630           |                  | 640       |              | mg/L | - | 2   | 20        |

## Method: SM 4500 NH3 D - Ammonia

Lab Sample ID: MB 240-251043/7

Matrix: Water

Analysis Batch: 251043

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte        | MB Result | MB Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| Ammonia (as N) | 0.112     | J            | 0.20 | 0.033 | mg/L | - |          | 10/12/16 07:33 | 1       |

Lab Sample ID: LCS 240-251043/8

Matrix: Water

Analysis Batch: 251043

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte        | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------|-------------|------------|---------------|------|---|------|--------------|
| Ammonia (as N) | 3.84        | 3.46       |               | mg/L | - | 90   | 85 - 114     |

TestAmerica Canton

# QC Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70225-1

## Method: SM 4500 NH3 D - Ammonia (Continued)

Lab Sample ID: 240-70225-1 MS

Matrix: Water

Analysis Batch: 251043

Client Sample ID: X-9D\_092816

Prep Type: Total/NA

| Analyte        | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|----------------|------------------|---------------------|----------------|--------------|-----------------|------|---|------|-----------------|
| Ammonia (as N) | 6.7              | B                   | 12.5           | 17.0         |                 | mg/L |   | 82   | 79 - 130        |

Lab Sample ID: 240-70225-1 MSD

Matrix: Water

Analysis Batch: 251043

Client Sample ID: X-9D\_092816

Prep Type: Total/NA

| Analyte        | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits | RPD | RPD<br>Limit |
|----------------|------------------|---------------------|----------------|---------------|------------------|------|---|------|-----------------|-----|--------------|
| Ammonia (as N) | 6.7              | B                   | 12.5           | 17.6          |                  | mg/L |   | 87   | 79 - 130        | 3   | 10           |



# QC Association Summary

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70225-1

## Metals

### Prep Batch: 249703

| Lab Sample ID      | Client Sample ID   | Prep Type         | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 240-70225-2        | X-9CAUG_092816     | Dissolved         | Water  | 3005A  |            |
| 240-70225-2        | X-9CAUG_092816     | Total Recoverable | Water  | 3005A  |            |
| 240-70225-3        | X-9AR_092816       | Dissolved         | Water  | 3005A  |            |
| 240-70225-3        | X-9AR_092816       | Total Recoverable | Water  | 3005A  |            |
| 240-70225-4        | X-9BR_092816       | Dissolved         | Water  | 3005A  |            |
| 240-70225-4        | X-9BR_092816       | Total Recoverable | Water  | 3005A  |            |
| MB 240-249703/1-A  | Method Blank       | Total Recoverable | Water  | 3005A  |            |
| LCS 240-249703/2-A | Lab Control Sample | Total Recoverable | Water  | 3005A  |            |

### Prep Batch: 249956

| Lab Sample ID       | Client Sample ID   | Prep Type         | Matrix | Method | Prep Batch |
|---------------------|--------------------|-------------------|--------|--------|------------|
| 240-70225-1         | X-9D_092816        | Dissolved         | Water  | 3005A  |            |
| 240-70225-1         | X-9D_092816        | Total Recoverable | Water  | 3005A  |            |
| MB 240-249956/1-A   | Method Blank       | Total Recoverable | Water  | 3005A  |            |
| LCS 240-249956/21-A | Lab Control Sample | Total Recoverable | Water  | 3005A  |            |
| 240-70225-1 MS      | X-9D_092816        | Dissolved         | Water  | 3005A  |            |
| 240-70225-1 MS      | X-9D_092816        | Total Recoverable | Water  | 3005A  |            |
| 240-70225-1 MSD     | X-9D_092816        | Dissolved         | Water  | 3005A  |            |
| 240-70225-1 MSD     | X-9D_092816        | Total Recoverable | Water  | 3005A  |            |

### Analysis Batch: 251153

| Lab Sample ID | Client Sample ID | Prep Type         | Matrix | Method | Prep Batch |
|---------------|------------------|-------------------|--------|--------|------------|
| 240-70225-2   | X-9CAUG_092816   | Dissolved         | Water  | 6020   | 249703     |
| 240-70225-2   | X-9CAUG_092816   | Total Recoverable | Water  | 6020   | 249703     |
| 240-70225-3   | X-9AR_092816     | Dissolved         | Water  | 6020   | 249703     |
| 240-70225-3   | X-9AR_092816     | Total Recoverable | Water  | 6020   | 249703     |
| 240-70225-4   | X-9BR_092816     | Dissolved         | Water  | 6020   | 249703     |
| 240-70225-4   | X-9BR_092816     | Total Recoverable | Water  | 6020   | 249703     |

### Analysis Batch: 251370

| Lab Sample ID      | Client Sample ID   | Prep Type         | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 240-70225-2        | X-9CAUG_092816     | Dissolved         | Water  | 6020   | 249703     |
| 240-70225-2        | X-9CAUG_092816     | Total Recoverable | Water  | 6020   | 249703     |
| 240-70225-3        | X-9AR_092816       | Dissolved         | Water  | 6020   | 249703     |
| 240-70225-3        | X-9AR_092816       | Total Recoverable | Water  | 6020   | 249703     |
| 240-70225-4        | X-9BR_092816       | Dissolved         | Water  | 6020   | 249703     |
| 240-70225-4        | X-9BR_092816       | Total Recoverable | Water  | 6020   | 249703     |
| MB 240-249703/1-A  | Method Blank       | Total Recoverable | Water  | 6020   | 249703     |
| LCS 240-249703/2-A | Lab Control Sample | Total Recoverable | Water  | 6020   | 249703     |

### Analysis Batch: 251645

| Lab Sample ID       | Client Sample ID   | Prep Type         | Matrix | Method | Prep Batch |
|---------------------|--------------------|-------------------|--------|--------|------------|
| 240-70225-1         | X-9D_092816        | Dissolved         | Water  | 6020   | 249956     |
| 240-70225-1         | X-9D_092816        | Total Recoverable | Water  | 6020   | 249956     |
| MB 240-249956/1-A   | Method Blank       | Total Recoverable | Water  | 6020   | 249956     |
| LCS 240-249956/21-A | Lab Control Sample | Total Recoverable | Water  | 6020   | 249956     |
| 240-70225-1 MS      | X-9D_092816        | Dissolved         | Water  | 6020   | 249956     |
| 240-70225-1 MS      | X-9D_092816        | Total Recoverable | Water  | 6020   | 249956     |
| 240-70225-1 MSD     | X-9D_092816        | Dissolved         | Water  | 6020   | 249956     |
| 240-70225-1 MSD     | X-9D_092816        | Total Recoverable | Water  | 6020   | 249956     |

TestAmerica Canton

# QC Association Summary

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70225-1

## Metals (Continued)

### Analysis Batch: 251858

| Lab Sample ID   | Client Sample ID | Prep Type         | Matrix | Method | Prep Batch |
|-----------------|------------------|-------------------|--------|--------|------------|
| 240-70225-1     | X-9D_092816      | Dissolved         | Water  | 6020   | 249956     |
| 240-70225-1     | X-9D_092816      | Total Recoverable | Water  | 6020   | 249956     |
| 240-70225-1 MS  | X-9D_092816      | Dissolved         | Water  | 6020   | 249956     |
| 240-70225-1 MS  | X-9D_092816      | Total Recoverable | Water  | 6020   | 249956     |
| 240-70225-1 MSD | X-9D_092816      | Dissolved         | Water  | 6020   | 249956     |
| 240-70225-1 MSD | X-9D_092816      | Total Recoverable | Water  | 6020   | 249956     |

## General Chemistry

### Analysis Batch: 249177

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method         | Prep Batch |
|-------------------|--------------------|-----------|--------|----------------|------------|
| 240-70225-1       | X-9D_092816        | Total/NA  | Water  | 4500 H+ B-2000 |            |
| 240-70225-2       | X-9CAUG_092816     | Total/NA  | Water  | 4500 H+ B-2000 |            |
| 240-70225-3       | X-9AR_092816       | Total/NA  | Water  | 4500 H+ B-2000 |            |
| 240-70225-4       | X-9BR_092816       | Total/NA  | Water  | 4500 H+ B-2000 |            |
| LCS 240-249177/29 | Lab Control Sample | Total/NA  | Water  | 4500 H+ B-2000 |            |

### Analysis Batch: 249194

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 240-70225-2       | X-9CAUG_092816     | Total/NA  | Water  | 300.0  |            |
| 240-70225-3       | X-9AR_092816       | Total/NA  | Water  | 300.0  |            |
| 240-70225-4       | X-9BR_092816       | Total/NA  | Water  | 300.0  |            |
| MB 240-249194/39  | Method Blank       | Total/NA  | Water  | 300.0  |            |
| LCS 240-249194/40 | Lab Control Sample | Total/NA  | Water  | 300.0  |            |
| 240-70225-1 MS    | X-9D_092816        | Total/NA  | Water  | 300.0  |            |
| 240-70225-1 MSD   | X-9D_092816        | Total/NA  | Water  | 300.0  |            |

### Analysis Batch: 249797

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 240-70225-2      | X-9CAUG_092816     | Total/NA  | Water  | 300.0  |            |
| 240-70225-3      | X-9AR_092816       | Total/NA  | Water  | 300.0  |            |
| 240-70225-4      | X-9BR_092816       | Total/NA  | Water  | 300.0  |            |
| MB 240-249797/3  | Method Blank       | Total/NA  | Water  | 300.0  |            |
| LCS 240-249797/4 | Lab Control Sample | Total/NA  | Water  | 300.0  |            |

### Analysis Batch: 249923

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method   | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 240-70225-1      | X-9D_092816        | Total/NA  | Water  | SM 2540C |            |
| 240-70225-2      | X-9CAUG_092816     | Total/NA  | Water  | SM 2540C |            |
| MB 240-249923/1  | Method Blank       | Total/NA  | Water  | SM 2540C |            |
| LCS 240-249923/2 | Lab Control Sample | Total/NA  | Water  | SM 2540C |            |

### Analysis Batch: 249998

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method   | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 240-70225-3      | X-9AR_092816       | Total/NA  | Water  | SM 2540C |            |
| 240-70225-4      | X-9BR_092816       | Total/NA  | Water  | SM 2540C |            |
| MB 240-249998/1  | Method Blank       | Total/NA  | Water  | SM 2540C |            |
| LCS 240-249998/2 | Lab Control Sample | Total/NA  | Water  | SM 2540C |            |
| 240-70225-3 DU   | X-9AR_092816       | Total/NA  | Water  | SM 2540C |            |

TestAmerica Canton

# QC Association Summary

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70225-1

## General Chemistry (Continued)

### Prep Batch: 250090

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 240-70225-1        | X-9D_092816        | Dissolved | Water  | 9012A  |            |
| 240-70225-1        | X-9D_092816        | Total/NA  | Water  | 9012A  |            |
| 240-70225-2        | X-9CAUG_092816     | Dissolved | Water  | 9012A  |            |
| 240-70225-2        | X-9CAUG_092816     | Total/NA  | Water  | 9012A  |            |
| MB 240-250090/1-A  | Method Blank       | Total/NA  | Water  | 9012A  |            |
| LCS 240-250090/2-A | Lab Control Sample | Total/NA  | Water  | 9012A  |            |
| 240-70225-1 MS     | X-9D_092816        | Dissolved | Water  | 9012A  |            |
| 240-70225-1 MS     | X-9D_092816        | Total/NA  | Water  | 9012A  |            |
| 240-70225-1 MSD    | X-9D_092816        | Dissolved | Water  | 9012A  |            |
| 240-70225-1 MSD    | X-9D_092816        | Total/NA  | Water  | 9012A  |            |

### Analysis Batch: 250127

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 240-70225-1      | X-9D_092816        | Total/NA  | Water  | 353.2  |            |
| 240-70225-2      | X-9CAUG_092816     | Total/NA  | Water  | 353.2  |            |
| 240-70225-3      | X-9AR_092816       | Total/NA  | Water  | 353.2  |            |
| 240-70225-4      | X-9BR_092816       | Total/NA  | Water  | 353.2  |            |
| MB 240-250127/4  | Method Blank       | Total/NA  | Water  | 353.2  |            |
| LCS 240-250127/5 | Lab Control Sample | Total/NA  | Water  | 353.2  |            |
| 240-70225-1 MS   | X-9D_092816        | Total/NA  | Water  | 353.2  |            |
| 240-70225-1 MSD  | X-9D_092816        | Total/NA  | Water  | 353.2  |            |

### Analysis Batch: 250150

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 240-70225-1        | X-9D_092816        | Dissolved | Water  | 9012A  | 250090     |
| 240-70225-1        | X-9D_092816        | Total/NA  | Water  | 9012A  | 250090     |
| 240-70225-2        | X-9CAUG_092816     | Dissolved | Water  | 9012A  | 250090     |
| 240-70225-2        | X-9CAUG_092816     | Total/NA  | Water  | 9012A  | 250090     |
| MB 240-250090/1-A  | Method Blank       | Total/NA  | Water  | 9012A  | 250090     |
| LCS 240-250090/2-A | Lab Control Sample | Total/NA  | Water  | 9012A  | 250090     |
| MRL 240-250150/6   | Lab Control Sample | Total/NA  | Water  | 9012A  |            |
| 240-70225-1 MS     | X-9D_092816        | Dissolved | Water  | 9012A  | 250090     |
| 240-70225-1 MS     | X-9D_092816        | Total/NA  | Water  | 9012A  | 250090     |
| 240-70225-1 MSD    | X-9D_092816        | Dissolved | Water  | 9012A  | 250090     |
| 240-70225-1 MSD    | X-9D_092816        | Total/NA  | Water  | 9012A  | 250090     |

### Prep Batch: 250202

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 240-70225-3        | X-9AR_092816       | Dissolved | Water  | 9012A  |            |
| 240-70225-3        | X-9AR_092816       | Total/NA  | Water  | 9012A  |            |
| 240-70225-4        | X-9BR_092816       | Dissolved | Water  | 9012A  |            |
| 240-70225-4        | X-9BR_092816       | Total/NA  | Water  | 9012A  |            |
| MB 240-250202/1-A  | Method Blank       | Total/NA  | Water  | 9012A  |            |
| LCS 240-250202/2-A | Lab Control Sample | Total/NA  | Water  | 9012A  |            |

### Analysis Batch: 250216

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 240-70225-1       | X-9D_092816        | Total/NA  | Water  | 300.0  |            |
| MB 240-250216/27  | Method Blank       | Total/NA  | Water  | 300.0  |            |
| LCS 240-250216/28 | Lab Control Sample | Total/NA  | Water  | 300.0  |            |
| 240-70225-1 MS    | X-9D_092816        | Total/NA  | Water  | 300.0  |            |

TestAmerica Canton

## QC Association Summary

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70225-1

### General Chemistry (Continued)

#### Analysis Batch: 250216 (Continued)

| Lab Sample ID   | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------|------------------|-----------|--------|--------|------------|
| 240-70225-1 MSD | X-9D_092816      | Total/NA  | Water  | 300.0  |            |

#### Analysis Batch: 250242

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 240-70225-3        | X-9AR_092816       | Dissolved | Water  | 9012A  | 250202     |
| 240-70225-3        | X-9AR_092816       | Total/NA  | Water  | 9012A  | 250202     |
| 240-70225-4        | X-9BR_092816       | Dissolved | Water  | 9012A  | 250202     |
| 240-70225-4        | X-9BR_092816       | Total/NA  | Water  | 9012A  | 250202     |
| MB 240-250202/1-A  | Method Blank       | Total/NA  | Water  | 9012A  | 250202     |
| LCS 240-250202/2-A | Lab Control Sample | Total/NA  | Water  | 9012A  | 250202     |

#### Analysis Batch: 251043

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method        | Prep Batch |
|------------------|--------------------|-----------|--------|---------------|------------|
| 240-70225-1      | X-9D_092816        | Total/NA  | Water  | SM 4500 NH3 D |            |
| 240-70225-2      | X-9CAUG_092816     | Total/NA  | Water  | SM 4500 NH3 D |            |
| 240-70225-3      | X-9AR_092816       | Total/NA  | Water  | SM 4500 NH3 D |            |
| 240-70225-4      | X-9BR_092816       | Total/NA  | Water  | SM 4500 NH3 D |            |
| MB 240-251043/7  | Method Blank       | Total/NA  | Water  | SM 4500 NH3 D |            |
| LCS 240-251043/8 | Lab Control Sample | Total/NA  | Water  | SM 4500 NH3 D |            |
| 240-70225-1 MS   | X-9D_092816        | Total/NA  | Water  | SM 4500 NH3 D |            |
| 240-70225-1 MSD  | X-9D_092816        | Total/NA  | Water  | SM 4500 NH3 D |            |

# Lab Chronicle

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70225-1

**Client Sample ID: X-9D\_092816**

**Date Collected: 09/28/16 07:30**

**Date Received: 09/30/16 09:10**

**Lab Sample ID: 240-70225-1**

**Matrix: Water**

| Prep Type         | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Dissolved         | Prep       | 3005A          |     |                 | 249956       | 10/05/16 14:00       | AJC     | TAL CAN |
| Dissolved         | Analysis   | 6020           |     | 1               | 251645       | 10/14/16 19:16       | AS1     | TAL CAN |
| Dissolved         | Prep       | 3005A          |     |                 | 249956       | 10/05/16 14:00       | AJC     | TAL CAN |
| Dissolved         | Analysis   | 6020           |     | 2               | 251858       | 10/17/16 22:51       | DSH     | TAL CAN |
| Total Recoverable | Prep       | 3005A          |     |                 | 249956       | 10/05/16 14:00       | AJC     | TAL CAN |
| Total Recoverable | Analysis   | 6020           |     | 1               | 251645       | 10/14/16 18:56       | AS1     | TAL CAN |
| Total Recoverable | Prep       | 3005A          |     |                 | 249956       | 10/05/16 14:00       | AJC     | TAL CAN |
| Total Recoverable | Analysis   | 6020           |     | 2               | 251858       | 10/17/16 22:30       | DSH     | TAL CAN |
| Total/NA          | Analysis   | 300.0          |     | 20              | 250216       | 10/07/16 00:57       | LCN     | TAL CAN |
| Total/NA          | Analysis   | 353.2          |     | 1               | 250127       | 10/05/16 20:22       | JWW     | TAL CAN |
| Total/NA          | Analysis   | 4500 H+ B-2000 |     | 1               | 249177       | 09/30/16 15:14       | BLW     | TAL CAN |
| Dissolved         | Prep       | 9012A          |     |                 | 250090       | 10/06/16 08:21       | BLW     | TAL CAN |
| Dissolved         | Analysis   | 9012A          |     | 1               | 250150       | 10/06/16 10:57       | BLW     | TAL CAN |
| Total/NA          | Prep       | 9012A          |     |                 | 250090       | 10/06/16 08:21       | BLW     | TAL CAN |
| Total/NA          | Analysis   | 9012A          |     | 1               | 250150       | 10/06/16 10:57       | BLW     | TAL CAN |
| Total/NA          | Analysis   | SM 2540C       |     | 1               | 249923       | 10/05/16 10:51       | JW      | TAL CAN |
| Total/NA          | Analysis   | SM 4500 NH3 D  |     | 2               | 251043       | 10/12/16 07:45       | JAS     | TAL CAN |

**Client Sample ID: X-9CAUG\_092816**

**Date Collected: 09/28/16 08:55**

**Date Received: 09/30/16 09:10**

**Lab Sample ID: 240-70225-2**

**Matrix: Water**

| Prep Type         | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Dissolved         | Prep       | 3005A          |     |                 | 249703       | 10/04/16 14:00       | AJC     | TAL CAN |
| Dissolved         | Analysis   | 6020           |     | 1               | 251153       | 10/13/16 01:31       | AS1     | TAL CAN |
| Dissolved         | Prep       | 3005A          |     |                 | 249703       | 10/04/16 14:00       | AJC     | TAL CAN |
| Dissolved         | Analysis   | 6020           |     | 1               | 251370       | 10/13/16 16:33       | AS1     | TAL CAN |
| Total Recoverable | Prep       | 3005A          |     |                 | 249703       | 10/04/16 14:00       | AJC     | TAL CAN |
| Total Recoverable | Analysis   | 6020           |     | 1               | 251153       | 10/13/16 01:18       | AS1     | TAL CAN |
| Total Recoverable | Prep       | 3005A          |     |                 | 249703       | 10/04/16 14:00       | AJC     | TAL CAN |
| Total Recoverable | Analysis   | 6020           |     | 1               | 251370       | 10/13/16 16:29       | AS1     | TAL CAN |
| Total/NA          | Analysis   | 300.0          |     | 1               | 249194       | 10/01/16 00:50       | LKG     | TAL CAN |
| Total/NA          | Analysis   | 300.0          |     | 5               | 249797       | 10/05/16 10:53       | LKG     | TAL CAN |
| Total/NA          | Analysis   | 353.2          |     | 1               | 250127       | 10/05/16 20:25       | JWW     | TAL CAN |
| Total/NA          | Analysis   | 4500 H+ B-2000 |     | 1               | 249177       | 09/30/16 15:30       | BLW     | TAL CAN |
| Dissolved         | Prep       | 9012A          |     |                 | 250090       | 10/06/16 08:21       | BLW     | TAL CAN |
| Dissolved         | Analysis   | 9012A          |     | 1               | 250150       | 10/06/16 10:57       | BLW     | TAL CAN |
| Total/NA          | Prep       | 9012A          |     |                 | 250090       | 10/06/16 08:26       | BLW     | TAL CAN |
| Total/NA          | Analysis   | 9012A          |     | 1               | 250150       | 10/06/16 10:59       | BLW     | TAL CAN |
| Total/NA          | Analysis   | SM 2540C       |     | 1               | 249923       | 10/05/16 10:51       | JW      | TAL CAN |
| Total/NA          | Analysis   | SM 4500 NH3 D  |     | 1               | 251043       | 10/12/16 08:01       | JAS     | TAL CAN |

TestAmerica Canton

# Lab Chronicle

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70225-1

**Client Sample ID: X-9AR\_092816**

**Lab Sample ID: 240-70225-3**

**Date Collected: 09/28/16 10:55**

**Matrix: Water**

**Date Received: 09/30/16 09:10**

| Prep Type         | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Dissolved         | Prep       | 3005A          |     |                 | 249703       | 10/04/16 14:00       | AJC     | TAL CAN |
| Dissolved         | Analysis   | 6020           |     | 1               | 251153       | 10/13/16 01:39       | AS1     | TAL CAN |
| Dissolved         | Prep       | 3005A          |     |                 | 249703       | 10/04/16 14:00       | AJC     | TAL CAN |
| Dissolved         | Analysis   | 6020           |     | 1               | 251370       | 10/13/16 16:42       | AS1     | TAL CAN |
| Total Recoverable | Prep       | 3005A          |     |                 | 249703       | 10/04/16 14:00       | AJC     | TAL CAN |
| Total Recoverable | Analysis   | 6020           |     | 1               | 251153       | 10/13/16 01:35       | AS1     | TAL CAN |
| Total Recoverable | Prep       | 3005A          |     |                 | 249703       | 10/04/16 14:00       | AJC     | TAL CAN |
| Total Recoverable | Analysis   | 6020           |     | 1               | 251370       | 10/13/16 16:38       | AS1     | TAL CAN |
| Total/NA          | Analysis   | 300.0          |     | 1               | 249194       | 10/01/16 01:06       | LKG     | TAL CAN |
| Total/NA          | Analysis   | 300.0          |     | 1               | 249797       | 10/05/16 11:13       | LKG     | TAL CAN |
| Total/NA          | Analysis   | 353.2          |     | 1               | 250127       | 10/05/16 20:26       | JWW     | TAL CAN |
| Total/NA          | Analysis   | 4500 H+ B-2000 |     | 1               | 249177       | 09/30/16 15:22       | BLW     | TAL CAN |
| Dissolved         | Prep       | 9012A          |     |                 | 250202       | 10/06/16 13:44       | BLW     | TAL CAN |
| Dissolved         | Analysis   | 9012A          |     | 1               | 250242       | 10/06/16 15:59       | BLW     | TAL CAN |
| Total/NA          | Prep       | 9012A          |     |                 | 250202       | 10/06/16 13:44       | BLW     | TAL CAN |
| Total/NA          | Analysis   | 9012A          |     | 1               | 250242       | 10/06/16 15:59       | BLW     | TAL CAN |
| Total/NA          | Analysis   | SM 2540C       |     | 1               | 249998       | 10/05/16 14:33       | JW      | TAL CAN |
| Total/NA          | Analysis   | SM 4500 NH3 D  |     | 1               | 251043       | 10/12/16 08:11       | JAS     | TAL CAN |

**Client Sample ID: X-9BR\_092816**

**Lab Sample ID: 240-70225-4**

**Date Collected: 09/28/16 11:00**

**Matrix: Water**

**Date Received: 09/30/16 09:10**

| Prep Type         | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Dissolved         | Prep       | 3005A          |     |                 | 249703       | 10/04/16 14:00       | AJC     | TAL CAN |
| Dissolved         | Analysis   | 6020           |     | 1               | 251153       | 10/13/16 01:48       | AS1     | TAL CAN |
| Dissolved         | Prep       | 3005A          |     |                 | 249703       | 10/04/16 14:00       | AJC     | TAL CAN |
| Dissolved         | Analysis   | 6020           |     | 1               | 251370       | 10/13/16 16:50       | AS1     | TAL CAN |
| Total Recoverable | Prep       | 3005A          |     |                 | 249703       | 10/04/16 14:00       | AJC     | TAL CAN |
| Total Recoverable | Analysis   | 6020           |     | 1               | 251153       | 10/13/16 01:44       | AS1     | TAL CAN |
| Total Recoverable | Prep       | 3005A          |     |                 | 249703       | 10/04/16 14:00       | AJC     | TAL CAN |
| Total Recoverable | Analysis   | 6020           |     | 1               | 251370       | 10/13/16 16:46       | AS1     | TAL CAN |
| Total/NA          | Analysis   | 300.0          |     | 1               | 249194       | 10/01/16 00:17       | LKG     | TAL CAN |
| Total/NA          | Analysis   | 300.0          |     | 5               | 249797       | 10/05/16 11:33       | LKG     | TAL CAN |
| Total/NA          | Analysis   | 353.2          |     | 1               | 250127       | 10/05/16 20:27       | JWW     | TAL CAN |
| Total/NA          | Analysis   | 4500 H+ B-2000 |     | 1               | 249177       | 09/30/16 15:38       | BLW     | TAL CAN |
| Dissolved         | Prep       | 9012A          |     |                 | 250202       | 10/06/16 13:44       | BLW     | TAL CAN |
| Dissolved         | Analysis   | 9012A          |     | 1               | 250242       | 10/06/16 15:59       | BLW     | TAL CAN |
| Total/NA          | Prep       | 9012A          |     |                 | 250202       | 10/06/16 13:44       | BLW     | TAL CAN |
| Total/NA          | Analysis   | 9012A          |     | 1               | 250242       | 10/06/16 15:59       | BLW     | TAL CAN |
| Total/NA          | Analysis   | SM 2540C       |     | 1               | 249998       | 10/05/16 14:33       | JW      | TAL CAN |
| Total/NA          | Analysis   | SM 4500 NH3 D  |     | 2               | 251043       | 10/12/16 08:23       | JAS     | TAL CAN |

TestAmerica Canton

# Lab Chronicle

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70225-1

**Laboratory References:**

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

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# Certification Summary

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70225-1

## Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority             | Program       | EPA Region | Certification ID | Expiration Date |
|-----------------------|---------------|------------|------------------|-----------------|
| California            | NELAP         | 9          | 01144CA          | 06-30-14 *      |
| California            | State Program | 9          | 2927             | 04-30-17        |
| Connecticut           | State Program | 1          | PH-0590          | 12-31-17        |
| Florida               | NELAP         | 4          | E87225           | 06-30-17        |
| Illinois              | NELAP         | 5          | 200004           | 07-31-17        |
| Kansas                | NELAP         | 7          | E-10336          | 01-31-17        |
| Kentucky (UST)        | State Program | 4          | 58               | 02-23-17        |
| Kentucky (VW)         | State Program | 4          | 98016            | 12-31-16 *      |
| Minnesota             | NELAP         | 5          | 039-999-348      | 12-31-16 *      |
| Minnesota (Petrofund) | State Program | 1          | 3506             | 07-31-17        |
| Nevada                | State Program | 9          | OH-000482008A    | 07-31-17        |
| New Jersey            | NELAP         | 2          | OH001            | 06-30-17        |
| New York              | NELAP         | 2          | 10975            | 03-31-17        |
| Ohio VAP              | State Program | 5          | CL0024           | 09-14-17        |
| Oregon                | NELAP         | 10         | 4062             | 02-23-17        |
| Pennsylvania          | NELAP         | 3          | 68-00340         | 08-31-17        |
| Texas                 | NELAP         | 6          | T104704517-15-5  | 08-31-17        |
| USDA                  | Federal       |            | P330-13-00319    | 11-26-16 *      |
| Virginia              | NELAP         | 3          | 460175           | 09-14-17        |
| Washington            | State Program | 10         | C971             | 01-12-17        |
| West Virginia DEP     | State Program | 3          | 210              | 12-31-16 *      |
| Wisconsin             | State Program | 5          | 999518190        | 08-31-17        |

\* Certification renewal pending - certification considered valid.

TestAmerica Canton

**America Michigan**

18 Citation Drive  
Suite 200

Brighton, MI 48116

Phone: 810.229.2763 Fax:

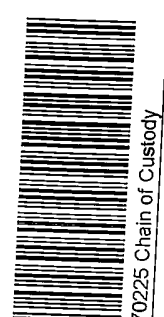
# Chain of Custody Record

163559

**TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING  
TestAmerica Laboratories, Inc.  
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

|                                                                                                                                                                                                                                                                                                                |  |                                                                                                                                                                                                                                                                                                                                                 |  |                                                                                                                                      |  |                                                                                                                                                                                                             |  |                                                                                                                    |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------|--|
| <b>Client Contact</b><br>Company Name: <u>ARCADIS</u><br>Address: <u>28550 CARRI WAY SUITE 300</u><br>City/State/Zip: <u>NOVATI, MI 48377</u><br>Phone: <u>248-994-2240</u><br>Fax: <u>248-994-2241</u><br>Project Name: <u>GREENWATER LANDFILL</u><br>Site: <u>RAVEN SAGINAW</u><br>PO # <u>BOES0096-2016</u> |  | <b>Site Contact:</b><br>Lab Contact: <u>248-994-2240</u><br>Analysis Turnaround Time<br><input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS<br>TAT if different from Below<br><input type="checkbox"/> 2 weeks<br><input type="checkbox"/> 1 week<br><input type="checkbox"/> 2 days<br><input type="checkbox"/> 1 day |  | <b>Project Manager:</b> <u>SCOTT CLEMAN</u><br>Tel/Fax: <u>248-994-2240</u>                                                          |  | <b>Date:</b> _____<br><b>Carrier:</b> _____                                                                                                                                                                 |  | <b>COC No:</b> _____ of _____ COCs                                                                                 |  |
| <b>Sample Identification</b><br>Sample ID: <u>X-90-092816</u><br>Sample ID: <u>X-90-092816</u><br>Sample ID: <u>X-90-092816</u><br>Sample ID: <u>X-90-092816</u>                                                                                                                                               |  | <b>Sample Type</b><br>(C=Comp, G=Grab)<br>Sample Type: <u>GW</u><br>Sample Type: <u>GW</u><br>Sample Type: <u>GW</u><br>Sample Type: <u>GW</u>                                                                                                                                                                                                  |  | <b>Sample Time</b><br>Sample Time: <u>7:30</u><br>Sample Time: <u>8:55</u><br>Sample Time: <u>10:55</u><br>Sample Time: <u>11:00</u> |  | <b>Matrix</b><br>Matrix: <u>GW</u><br>Matrix: <u>GW</u><br>Matrix: <u>GW</u><br>Matrix: <u>GW</u>                                                                                                           |  | <b># of Cont.</b><br># of Cont.: <u>15</u><br># of Cont.: <u>7</u><br># of Cont.: <u>7</u><br># of Cont.: <u>7</u> |  |
| <b>Sample Specific Notes:</b><br><u>MSMSO</u>                                                                                                                                                                                                                                                                  |  | <b>Filtered Sample (Y/N)</b><br>Filtered Sample (Y/N): <u>Y</u>                                                                                                                                                                                                                                                                                 |  | <b>Perform MS/MSD (Y/N)</b><br>Perform MS/MSD (Y/N): <u>Y</u>                                                                        |  | <b>Disposal by Lab</b><br><input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months                                              |  | <b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b>                         |  |
| <b>Barcode</b><br>                                                                                                                                                                                                           |  | <b>240-70225 Chain of Custody</b>                                                                                                                                                                                                                                                                                                               |  | <b>Preservation Used:</b> 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other                                                       |  | <b>Possible Hazard Identification:</b><br>Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. |  | <b>Special Instructions/QC Requirements &amp; Comments:</b>                                                        |  |
| <b>Relinquished by:</b><br><u>[Signature]</u>                                                                                                                                                                                                                                                                  |  | <b>Relinquished by:</b><br><u>[Signature]</u>                                                                                                                                                                                                                                                                                                   |  | <b>Relinquished by:</b><br><u>[Signature]</u>                                                                                        |  | <b>Relinquished by:</b><br><u>[Signature]</u>                                                                                                                                                               |  | <b>Relinquished by:</b><br><u>[Signature]</u>                                                                      |  |
| <b>Company:</b> <u>ARCADIS</u>                                                                                                                                                                                                                                                                                 |  | <b>Company:</b> <u>ARCADIS</u>                                                                                                                                                                                                                                                                                                                  |  | <b>Company:</b> <u>ARCADIS</u>                                                                                                       |  | <b>Company:</b> <u>ARCADIS</u>                                                                                                                                                                              |  | <b>Company:</b> <u>ARCADIS</u>                                                                                     |  |
| <b>Date/Time:</b> <u>9/28/16 6:30</u>                                                                                                                                                                                                                                                                          |  | <b>Date/Time:</b> <u>9/28/16 6:30</u>                                                                                                                                                                                                                                                                                                           |  | <b>Date/Time:</b> <u>9/28/16 6:30</u>                                                                                                |  | <b>Date/Time:</b> <u>9/28/16 6:30</u>                                                                                                                                                                       |  | <b>Date/Time:</b> <u>9/28/16 6:30</u>                                                                              |  |
| <b>Date/Time:</b> <u>9/28/16 9:10</u>                                                                                                                                                                                                                                                                          |  | <b>Date/Time:</b> <u>9/28/16 9:10</u>                                                                                                                                                                                                                                                                                                           |  | <b>Date/Time:</b> <u>9/28/16 9:10</u>                                                                                                |  | <b>Date/Time:</b> <u>9/28/16 9:10</u>                                                                                                                                                                       |  | <b>Date/Time:</b> <u>9/28/16 9:10</u>                                                                              |  |

| TestAmerica Canton Sample Receipt Form/Narrative                                                                                                                                                                                                 |  |                                                                                                                                     |                         | Login # : <u>70225</u>            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------------------|
| <b>Canton Facility</b>                                                                                                                                                                                                                           |  |                                                                                                                                     |                         |                                   |
| Client: <u>ArCADIS</u>                                                                                                                                                                                                                           |  | Site Name                                                                                                                           |                         | Cooler unpacked by: <u>B. Mac</u> |
| Cooler Received on <u>9/30/14</u>                                                                                                                                                                                                                |  | Opened on <u>9/30/14</u>                                                                                                            |                         |                                   |
| FedEx: 1 <sup>st</sup> <input checked="" type="radio"/> Grd <input type="radio"/> Exp    UPS <input type="radio"/> FAS    Stetson <input type="radio"/> Client Drop Off    TestAmerica Courier <input type="radio"/> Other <input type="radio"/> |  |                                                                                                                                     |                         |                                   |
| <b>Receipt After-hours: Drop-off Date/Time</b>                                                                                                                                                                                                   |  |                                                                                                                                     | <b>Storage Location</b> |                                   |
| TestAmerica Cooler # _____                                                                                                                                                                                                                       |  | Foam Box <input type="radio"/> Client Cooler <input checked="" type="radio"/> Box <input type="radio"/> Other <input type="radio"/> |                         |                                   |
| Packing material used: <u>Bubble Wrap</u>                                                                                                                                                                                                        |  | Foam <input type="radio"/> Plastic Bag <input type="radio"/> None <input type="radio"/> Other <input type="radio"/>                 |                         |                                   |
| COOLANT: <u>Wet Ice</u>                                                                                                                                                                                                                          |  | Blue Ice <input type="radio"/> Dry Ice <input type="radio"/> Water <input type="radio"/> None <input type="radio"/>                 |                         |                                   |
| 1. Cooler temperature upon receipt                                                                                                                                                                                                               |  | <input type="checkbox"/> See Multiple Cooler Form                                                                                   |                         |                                   |
| IR GUN# IR-8 (CF +0.4 °C) Observed Cooler Temp. _____ °C                                                                                                                                                                                         |  | Corrected Cooler Temp. _____ °C                                                                                                     |                         |                                   |
| IR GUN #36 (CF +1.3 °C) Observed Cooler Temp. _____ °C                                                                                                                                                                                           |  | Corrected Cooler Temp. _____ °C                                                                                                     |                         |                                   |
| 2. Were custody seals on the outside of the cooler(s)?                                                                                                                                                                                           |  | If Yes Quantity _____ Yes <input checked="" type="radio"/> No <input type="radio"/>                                                 |                         |                                   |
| -Were custody seals on the outside of the cooler(s) signed & dated?                                                                                                                                                                              |  | Yes <input type="radio"/> No <input checked="" type="radio"/> NA <input type="radio"/>                                              |                         |                                   |
| -Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?                                                                                                                                                                                 |  | Yes <input type="radio"/> No <input checked="" type="radio"/>                                                                       |                         |                                   |
| 3. Shippers' packing slip attached to the cooler(s)?                                                                                                                                                                                             |  | Yes <input checked="" type="radio"/> No <input type="radio"/>                                                                       |                         |                                   |
| 4. Did custody papers accompany the sample(s)?                                                                                                                                                                                                   |  | Yes <input checked="" type="radio"/> No <input type="radio"/>                                                                       |                         |                                   |
| 5. Were the custody papers relinquished & signed in the appropriate place?                                                                                                                                                                       |  | Yes <input checked="" type="radio"/> No <input type="radio"/>                                                                       |                         |                                   |
| 6. Was/were the person(s) who collected the samples clearly identified on the COC?                                                                                                                                                               |  | Yes <input checked="" type="radio"/> No <input type="radio"/>                                                                       |                         |                                   |
| 7. Did all bottles arrive in good condition (Unbroken)?                                                                                                                                                                                          |  | Yes <input checked="" type="radio"/> No <input type="radio"/>                                                                       |                         |                                   |
| 8. Could all bottle labels be reconciled with the COC?                                                                                                                                                                                           |  | Yes <input checked="" type="radio"/> No <input type="radio"/>                                                                       |                         |                                   |
| 9. Were correct bottle(s) used for the test(s) indicated?                                                                                                                                                                                        |  | Yes <input checked="" type="radio"/> No <input type="radio"/>                                                                       |                         |                                   |
| 10. Sufficient quantity received to perform indicated analyses?                                                                                                                                                                                  |  | Yes <input checked="" type="radio"/> No <input type="radio"/>                                                                       |                         |                                   |
| 11. Are these work share samples?                                                                                                                                                                                                                |  | Yes <input checked="" type="radio"/> No <input type="radio"/>                                                                       |                         |                                   |
| If yes, Questions 11-15 have been checked at the originating laboratory.                                                                                                                                                                         |  |                                                                                                                                     |                         |                                   |
| 11. Were sample(s) at the correct pH upon receipt?                                                                                                                                                                                               |  | Yes <input checked="" type="radio"/> No <input type="radio"/> NA <input type="radio"/> pH Strip Lot# <u>HC574756</u>                |                         |                                   |
| 12. Were VOAs on the COC?                                                                                                                                                                                                                        |  | Yes <input checked="" type="radio"/> No <input type="radio"/>                                                                       |                         |                                   |
| 13. Were air bubbles >6 mm in any VOA vials?                                                                                                                                                                                                     |  | Yes <input type="radio"/> No <input checked="" type="radio"/> NA <input type="radio"/>                                              |                         |                                   |
| 14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____                                                                                                                                                                        |  | Yes <input type="radio"/> No <input checked="" type="radio"/>                                                                       |                         |                                   |
| 15. Was a LL Hg or Me Hg trip blank present? _____                                                                                                                                                                                               |  | Yes <input type="radio"/> No <input checked="" type="radio"/>                                                                       |                         |                                   |
| Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____                                                                                                                                                                         |  |                                                                                                                                     |                         |                                   |
| Concerning _____                                                                                                                                                                                                                                 |  |                                                                                                                                     |                         |                                   |

|                                                                                                                                                                                                                                                  |                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| <b>14. CHAIN OF CUSTODY &amp; SAMPLE DISCREPANCIES</b><br><br><br><br><br><br><br><br><br><br>                                                                                                                                                   | <b>Samples processed by:</b><br><br><br><br><br><br><br><br><br> |
| <b>15. SAMPLE CONDITION</b><br>Sample(s) _____ were received after the recommended holding time had expired.<br>Sample(s) _____ were received in a broken container.<br>Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM) |                                                                  |
| <b>16. SAMPLE PRESERVATION</b><br>Sample(s) _____ were further preserved in the laboratory.<br>Time preserved: _____ Preservative(s) added/Lot number(s): _____                                                                                  |                                                                  |

[illegible]

Temperature readings: \_\_\_\_\_

| <u>Client Sample ID</u> | <u>Lab ID</u> | <u>Container Type</u>                 | <u>Container</u><br><u>pH</u> | <u>Preservative</u><br><u>Added (mls)</u> | <u>Lot #</u> |
|-------------------------|---------------|---------------------------------------|-------------------------------|-------------------------------------------|--------------|
| X-90_092816             | 240-70225-A-1 | Plastic 250ml - with Sodium Hydroxide | >12                           | _____                                     | _____        |
| X-90_092816             | 240-70225-B-1 | Plastic 250ml - with Sodium Hydroxide | >12                           | _____                                     | _____        |
| X-90_092816             | 240-70225-C-1 | Plastic 250ml - with Sodium Hydroxide | >12                           | _____                                     | _____        |
| X-90_092816             | 240-70225-D-1 | Plastic 250ml - with Sodium Hydroxide | >12                           | _____                                     | _____        |
| X-90_092816             | 240-70225-K-1 | Plastic 500ml - with Sulfuric Acid    | _____                         | _____                                     | _____        |
| X-90_092816             | 240-70225-L-1 | Plastic 500ml - with Sulfuric Acid    | _____                         | _____                                     | _____        |
| X-90_092816             | 240-70225-M-1 | Plastic 500ml - with Sulfuric Acid    | _____                         | _____                                     | _____        |
| X-90_092816             | 240-70225-N-1 | Plastic 500ml - with Nitric Acid      | _____                         | _____                                     | _____        |
| X-90_092816             | 240-70225-O-1 | Plastic 500ml - with Nitric Acid      | _____                         | _____                                     | _____        |
| X-9CAVG_092816          | 240-70225-A-2 | Plastic 250ml - with Sodium Hydroxide | >12                           | _____                                     | _____        |
| X-9CAVG_092816          | 240-70225-B-2 | Plastic 250ml - with Sodium Hydroxide | >12                           | _____                                     | _____        |
| X-9CAVG_092816          | 240-70225-E-2 | Plastic 500ml - with Sulfuric Acid    | <2                            | _____                                     | _____        |
| X-9CAVG_092816          | 240-70225-F-2 | Plastic 500ml - with Nitric Acid      | <2                            | _____                                     | _____        |
| X-9CAVG_092816          | 240-70225-G-2 | Plastic 500ml - with Nitric Acid      | <2                            | _____                                     | _____        |
| X-9AR_092816            | 240-70225-A-3 | Plastic 250ml - with Sodium Hydroxide | >12                           | _____                                     | _____        |
| X-9AR_092816            | 240-70225-B-3 | Plastic 250ml - with Sodium Hydroxide | >12                           | _____                                     | _____        |
| X-9AR_092816            | 240-70225-E-3 | Plastic 500ml - with Sulfuric Acid    | <2                            | _____                                     | _____        |
| X-9AR_092816            | 240-70225-F-3 | Plastic 500ml - with Nitric Acid      | <2                            | _____                                     | _____        |
| X-9AR_092816            | 240-70225-G-3 | Plastic 500ml - with Nitric Acid      | <2                            | _____                                     | _____        |
| X-9BR_092816            | 240-70225-A-4 | Plastic 250ml - with Sodium Hydroxide | >12                           | _____                                     | _____        |
| X-9BR_092816            | 240-70225-B-4 | Plastic 250ml - with Sodium Hydroxide | >12                           | _____                                     | _____        |
| X-9BR_092816            | 240-70225-E-4 | Plastic 500ml - with Sulfuric Acid    | <2                            | _____                                     | _____        |
| X-9BR_092816            | 240-70225-F-4 | Plastic 500ml - with Nitric Acid      | <2                            | _____                                     | _____        |
| X-9BR_092816            | 240-70225-G-4 | Plastic 500ml - with Nitric Acid      | <2                            | _____                                     | _____        |

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-70227-1

Client Project/Site: RACER Saginaw Green Pt Landfill

For:

ARCADIS U.S. Inc

10559 Citation Drive

Suite 100

Brighton, Michigan 48116

Attn: Scott Clearwater



Authorized for release by:

10/13/2016 4:12:18 PM

Opal Johnson, Project Manager II

[opal.johnson@testamericainc.com](mailto:opal.johnson@testamericainc.com)

Designee for

Denise Pohl, Project Manager II

(330)966-9789

[denise.pohl@testamericainc.com](mailto:denise.pohl@testamericainc.com)

### LINKS

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results through

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[www.testamericainc.com](http://www.testamericainc.com)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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## Definitions/Glossary

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70227-1

### Qualifiers

#### Metals

| Qualifier | Qualifier Description                                                                                                                                     |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.                                            |
| B         | Compound was found in the blank and sample.                                                                                                               |
| ^         | ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.                                            |
| U         | Indicates the analyte was analyzed for but not detected.                                                                                                  |
| 4         | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |

#### General Chemistry

| Qualifier | Qualifier Description                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------|
| HF        | Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.           |
| U         | Indicates the analyte was analyzed for but not detected.                                                       |
| B         | Compound was found in the blank and sample.                                                                    |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| F1        | MS and/or MSD Recovery is outside acceptance limits.                                                           |

### Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| α              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery                                                                                            |
| CFL            | Contains Free Liquid                                                                                        |
| CNF            | Contains no Free Liquid                                                                                     |
| DER            | Duplicate error ratio (normalized absolute difference)                                                      |
| Dil Fac        | Dilution Factor                                                                                             |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision level concentration                                                                                |
| MDA            | Minimum detectable activity                                                                                 |
| EDL            | Estimated Detection Limit                                                                                   |
| MDC            | Minimum detectable concentration                                                                            |
| MDL            | Method Detection Limit                                                                                      |
| ML             | Minimum Level (Dioxin)                                                                                      |
| NC             | Not Calculated                                                                                              |
| ND             | Not detected at the reporting limit (or MDL or EDL if shown)                                                |
| PQL            | Practical Quantitation Limit                                                                                |
| QC             | Quality Control                                                                                             |
| RER            | Relative error ratio                                                                                        |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)                                                         |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                         |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                       |

# Case Narrative

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70227-1

**Job ID: 240-70227-1**

**Laboratory: TestAmerica Canton**

## Narrative

### CASE NARRATIVE

**Client: ARCADIS U.S. Inc**

**Project: RACER Saginaw Green Pt Landfill**

**Report Number: 240-70227-1**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

### RECEIPT

The samples were received on 9/30/2016 9:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 1.4° C, 1.6° C, 1.8° C and 4.0° C.

### DISSOLVED METALS (ICPMS)

Samples X-4D\_092816 (240-70227-1), X-4CAUGR\_092816 (240-70227-2) and MW-183WT\_092816 (240-70227-3) were analyzed for dissolved metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were prepared on 10/03/2016 and analyzed on 10/04/2016 and 10/05/2016.

Some requested practical quantitation limits (PQLs) on the following samples fall below the laboratory's verified standard quantitation limit: X-4D\_092816 (240-70227-1), X-4CAUGR\_092816 (240-70227-2), MW-183WT\_092816 (240-70227-3), DUP-02\_092816 (240-70227-4) and EB-01\_092816 (240-70227-5). The continuing calibration blanks and method blanks may not support the lower PQL.

The continuing calibration verification (CCV) associated with batch 240-250061 recovered above the upper control limit for selenium. The samples associated with this CCV were below the requested reporting limit for the affected analytes; therefore, the data have been reported. The following sample is impacted: X-4D\_092816 (240-70227-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

# Case Narrative

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70227-1

## Job ID: 240-70227-1 (Continued)

### Laboratory: TestAmerica Canton (Continued)

#### **TOTAL RECOVERABLE METALS (ICPMS)**

Samples X-4D\_092816 (240-70227-1), X-4CAUGR\_092816 (240-70227-2), MW-183WT\_092816 (240-70227-3), DUP-02\_092816 (240-70227-4) and EB-01\_092816 (240-70227-5) were analyzed for total recoverable metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were prepared on 10/03/2016 and analyzed on 10/04/2016 and 10/05/2016.

Barium, Iron and Manganese were detected in method blank MB 240-249537/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Sample X-4D\_092816 (240-70227-1)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Some requested practical quantitation limits (PQLs) on the following samples fall below the laboratory's verified standard quantitation limit: X-4D\_092816 (240-70227-1), X-4CAUGR\_092816 (240-70227-2), MW-183WT\_092816 (240-70227-3), DUP-02\_092816 (240-70227-4) and EB-01\_092816 (240-70227-5). The continuing calibration blanks and method blanks may not support the lower PQL.

The continuing calibration verification (CCV) associated with batch 240-250061 recovered above the upper control limit for selenium. The samples associated with this CCV were below the requested reporting limit for the affected analytes; therefore, the data have been reported. The following sample is impacted: X-4D\_092816 (240-70227-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### **TOTAL DISSOLVED SOLIDS**

Samples X-4D\_092816 (240-70227-1), X-4CAUGR\_092816 (240-70227-2), MW-183WT\_092816 (240-70227-3) and DUP-02\_092816 (240-70227-4) were analyzed for total dissolved solids in accordance with SM 2540C. The samples were analyzed on 10/05/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### **ANIONS**

Samples X-4D\_092816 (240-70227-1), X-4CAUGR\_092816 (240-70227-2), MW-183WT\_092816 (240-70227-3) and DUP-02\_092816 (240-70227-4) were analyzed for anions in accordance with EPA Method 300.0. The samples were analyzed on 09/30/2016 and 10/05/2016.

Sample X-4D\_092816 (240-70227-1)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### **NITRATE-NITRITE AS NITROGEN**

Samples X-4D\_092816 (240-70227-1), X-4CAUGR\_092816 (240-70227-2), MW-183WT\_092816 (240-70227-3) and DUP-02\_092816 (240-70227-4) were analyzed for nitrate-nitrite as nitrogen in accordance with EPA Method 353.2. The samples were analyzed on 10/06/2016.

Nitrate Nitrite as N failed the recovery criteria low for the MS/MSD of sample MW-183WT\_092816MS/MSD (240-70227-3) in batch 240-250239.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### **DISSOLVED CYANIDE**

Samples X-4D\_092816 (240-70227-1), X-4CAUGR\_092816 (240-70227-2), MW-183WT\_092816 (240-70227-3) and DUP-02\_092816 (240-70227-4) were analyzed for dissolved cyanide in accordance with EPA SW-846 Method 9012A. The samples were prepared and analyzed on 10/11/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

## Case Narrative

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70227-1

### Job ID: 240-70227-1 (Continued)

#### Laboratory: TestAmerica Canton (Continued)

##### TOTAL CYANIDE

Samples X-4D\_092816 (240-70227-1), X-4CAUGR\_092816 (240-70227-2) and MW-183WT\_092816 (240-70227-3) were analyzed for total cyanide in accordance with EPA SW-846 Method 9012A. The samples were prepared and analyzed on 10/11/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

##### PH

Samples X-4D\_092816 (240-70227-1), X-4CAUGR\_092816 (240-70227-2), MW-183WT\_092816 (240-70227-3) and DUP-02\_092816 (240-70227-4) were analyzed for pH in accordance with SM 4500 H+ B. The samples were analyzed on 09/30/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

##### AMMONIA

Samples X-4D\_092816 (240-70227-1), X-4CAUGR\_092816 (240-70227-2), MW-183WT\_092816 (240-70227-3) and DUP-02\_092816 (240-70227-4) were analyzed for ammonia in accordance with SM 4500 NH3 D. The samples were analyzed on 10/04/2016 and 10/12/2016.

Ammonia (as N) was detected in method blank MB 240-251043/7 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Sample X-4D\_092816 (240-70227-1)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

## Method Summary

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70227-1

| Method         | Method Description             | Protocol | Laboratory |
|----------------|--------------------------------|----------|------------|
| 6020           | Metals (ICP/MS)                | SW846    | TAL CAN    |
| 300.0          | Anions, Ion Chromatography     | MCAWW    | TAL CAN    |
| 353.2          | Nitrogen, Nitrate-Nitrite      | MCAWW    | TAL CAN    |
| 4500 H+ B-2000 | pH                             | SM       | TAL CAN    |
| 9012A          | Cyanide, Total and/or Amenable | SW846    | TAL CAN    |
| SM 2540C       | Solids, Total Dissolved (TDS)  | SM       | TAL CAN    |
| SM 4500 NH3 D  | Ammonia                        | SM       | TAL CAN    |

### Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

### Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

## Sample Summary

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70227-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 240-70227-1   | X-4D_092816      | Water  | 09/28/16 13:20 | 09/30/16 09:10 |
| 240-70227-2   | X-4CAUGR_092816  | Water  | 09/28/16 13:25 | 09/30/16 09:10 |
| 240-70227-3   | MW-183WT_092816  | Water  | 09/28/16 15:30 | 09/30/16 09:10 |
| 240-70227-4   | DUP-02_092816    | Water  | 09/28/16 00:00 | 09/30/16 09:10 |
| 240-70227-5   | EB-01_092816     | Water  | 09/28/16 18:50 | 09/30/16 09:10 |

# Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70227-1

**Client Sample ID: X-4D\_092816**

**Date Collected: 09/28/16 13:20**

**Date Received: 09/30/16 09:10**

**Lab Sample ID: 240-70227-1**

**Matrix: Water**

## Method: 6020 - Metals (ICP/MS) - Total Recoverable

| Analyte   | Result | Qualifier | RL   | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Arsenic   | 0.85   | J         | 2.0  | 0.35 | ug/L |   | 10/03/16 14:00 | 10/05/16 23:13 | 1       |
| Barium    | 93     | B         | 5.0  | 0.52 | ug/L |   | 10/03/16 14:00 | 10/05/16 23:13 | 1       |
| Iron      | 1200   | B         | 50   | 5.3  | ug/L |   | 10/03/16 14:00 | 10/05/16 23:13 | 1       |
| Manganese | 200    | B         | 2.0  | 0.25 | ug/L |   | 10/03/16 14:00 | 10/05/16 23:13 | 1       |
| Selenium  | 5.0    | U ^       | 5.0  | 0.48 | ug/L |   | 10/03/16 14:00 | 10/05/16 23:13 | 1       |
| Sodium    | 660000 |           | 5000 | 71   | ug/L |   | 10/03/16 14:00 | 10/05/16 23:17 | 5       |

## Method: 6020 - Metals (ICP/MS) - Dissolved

| Analyte   | Result | Qualifier | RL   | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Arsenic   | 0.97   | J         | 2.0  | 0.35 | ug/L |   | 10/03/16 14:00 | 10/05/16 23:30 | 1       |
| Barium    | 91     | B         | 5.0  | 0.52 | ug/L |   | 10/03/16 14:00 | 10/05/16 23:30 | 1       |
| Iron      | 1100   | B         | 50   | 5.3  | ug/L |   | 10/03/16 14:00 | 10/05/16 23:30 | 1       |
| Manganese | 200    | B         | 2.0  | 0.25 | ug/L |   | 10/03/16 14:00 | 10/05/16 23:30 | 1       |
| Selenium  | 5.0    | U ^       | 5.0  | 0.48 | ug/L |   | 10/03/16 14:00 | 10/05/16 23:30 | 1       |
| Sodium    | 630000 |           | 5000 | 71   | ug/L |   | 10/03/16 14:00 | 10/05/16 23:34 | 5       |

## General Chemistry

| Analyte                | Result | Qualifier | RL    | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Chloride               | 1300   |           | 10    | 4.1    | mg/L |   |                | 10/05/16 09:32 | 10      |
| Sulfate                | 160    |           | 10    | 1.3    | mg/L |   |                | 09/30/16 23:44 | 10      |
| Nitrate Nitrite as N   | 0.050  | U         | 0.050 | 0.0073 | mg/L |   |                | 10/06/16 15:06 | 1       |
| pH                     | 7.4    | HF        | 0.1   | 0.1    | SU   |   |                | 09/30/16 16:32 | 1       |
| Cyanide, Total         | 0.010  | U         | 0.010 | 0.0050 | mg/L |   | 10/11/16 08:53 | 10/11/16 13:14 | 1       |
| Total Dissolved Solids | 2600   |           | 40    | 30     | mg/L |   |                | 10/05/16 14:33 | 1       |
| Ammonia (as N)         | 6.2    | B         | 0.40  | 0.066  | mg/L |   |                | 10/12/16 08:30 | 2       |

## General Chemistry - Dissolved

| Analyte        | Result | Qualifier | RL    | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------|--------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Cyanide, Total | 0.010  | U         | 0.010 | 0.0050 | mg/L |   | 10/11/16 08:53 | 10/11/16 13:14 | 1       |

TestAmerica Canton



# Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70227-1

**Client Sample ID: X-4CAUGR\_092816**

**Lab Sample ID: 240-70227-2**

**Date Collected: 09/28/16 13:25**

**Matrix: Water**

**Date Received: 09/30/16 09:10**

## Method: 6020 - Metals (ICP/MS) - Total Recoverable

| Analyte   | Result | Qualifier | RL   | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Arsenic   | 1.3    | J         | 2.0  | 0.35 | ug/L |   | 10/03/16 14:00 | 10/04/16 23:50 | 1       |
| Barium    | 100    | B         | 5.0  | 0.52 | ug/L |   | 10/03/16 14:00 | 10/04/16 23:50 | 1       |
| Iron      | 4900   | B         | 50   | 5.3  | ug/L |   | 10/03/16 14:00 | 10/04/16 23:50 | 1       |
| Manganese | 380    | B         | 2.0  | 0.25 | ug/L |   | 10/03/16 14:00 | 10/04/16 23:50 | 1       |
| Selenium  | 0.92   | J         | 5.0  | 0.48 | ug/L |   | 10/03/16 14:00 | 10/04/16 23:50 | 1       |
| Sodium    | 78000  |           | 1000 | 14   | ug/L |   | 10/03/16 14:00 | 10/04/16 23:50 | 1       |

## Method: 6020 - Metals (ICP/MS) - Dissolved

| Analyte   | Result | Qualifier | RL   | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Arsenic   | 1.1    | J         | 2.0  | 0.35 | ug/L |   | 10/03/16 14:00 | 10/04/16 23:54 | 1       |
| Barium    | 96     | B         | 5.0  | 0.52 | ug/L |   | 10/03/16 14:00 | 10/04/16 23:54 | 1       |
| Iron      | 4700   | B         | 50   | 5.3  | ug/L |   | 10/03/16 14:00 | 10/04/16 23:54 | 1       |
| Manganese | 370    | B         | 2.0  | 0.25 | ug/L |   | 10/03/16 14:00 | 10/04/16 23:54 | 1       |
| Selenium  | 5.0    | U         | 5.0  | 0.48 | ug/L |   | 10/03/16 14:00 | 10/04/16 23:54 | 1       |
| Sodium    | 74000  |           | 1000 | 14   | ug/L |   | 10/03/16 14:00 | 10/04/16 23:54 | 1       |

## General Chemistry

| Analyte                | Result | Qualifier | RL    | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Chloride               | 81     |           | 1.0   | 0.41   | mg/L |   |                | 09/30/16 20:27 | 1       |
| Sulfate                | 18     |           | 1.0   | 0.13   | mg/L |   |                | 09/30/16 20:27 | 1       |
| Nitrate Nitrite as N   | 0.050  | U         | 0.050 | 0.0073 | mg/L |   |                | 10/06/16 15:07 | 1       |
| pH                     | 7.2    | HF        | 0.1   | 0.1    | SU   |   |                | 09/30/16 16:40 | 1       |
| Cyanide, Total         | 0.010  | U         | 0.010 | 0.0050 | mg/L |   | 10/11/16 08:53 | 10/11/16 13:14 | 1       |
| Total Dissolved Solids | 570    |           | 10    | 7.4    | mg/L |   |                | 10/05/16 14:33 | 1       |
| Ammonia (as N)         | 1.1    | B         | 0.20  | 0.033  | mg/L |   |                | 10/12/16 08:47 | 1       |

## General Chemistry - Dissolved

| Analyte        | Result | Qualifier | RL    | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------|--------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Cyanide, Total | 0.010  | U         | 0.010 | 0.0050 | mg/L |   | 10/11/16 08:53 | 10/11/16 13:19 | 1       |

TestAmerica Canton

# Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70227-1

**Client Sample ID: MW-183WT\_092816**

**Lab Sample ID: 240-70227-3**

**Date Collected: 09/28/16 15:30**

**Matrix: Water**

**Date Received: 09/30/16 09:10**

## Method: 6020 - Metals (ICP/MS) - Total Recoverable

| Analyte   | Result | Qualifier | RL   | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Arsenic   | 6.0    |           | 2.0  | 0.35 | ug/L |   | 10/03/16 14:00 | 10/04/16 22:27 | 1       |
| Barium    | 41     | B         | 5.0  | 0.52 | ug/L |   | 10/03/16 14:00 | 10/04/16 22:27 | 1       |
| Iron      | 5000   | B         | 50   | 5.3  | ug/L |   | 10/03/16 14:00 | 10/04/16 22:27 | 1       |
| Manganese | 1100   | B         | 2.0  | 0.25 | ug/L |   | 10/03/16 14:00 | 10/04/16 22:27 | 1       |
| Selenium  | 0.82   | J         | 5.0  | 0.48 | ug/L |   | 10/03/16 14:00 | 10/04/16 22:27 | 1       |
| Sodium    | 49000  |           | 1000 | 14   | ug/L |   | 10/03/16 14:00 | 10/04/16 22:27 | 1       |

## Method: 6020 - Metals (ICP/MS) - Dissolved

| Analyte   | Result | Qualifier | RL   | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Arsenic   | 4.1    |           | 2.0  | 0.35 | ug/L |   | 10/03/16 14:00 | 10/04/16 22:56 | 1       |
| Barium    | 40     | B         | 5.0  | 0.52 | ug/L |   | 10/03/16 14:00 | 10/04/16 22:56 | 1       |
| Iron      | 5300   | B         | 50   | 5.3  | ug/L |   | 10/03/16 14:00 | 10/04/16 22:56 | 1       |
| Manganese | 1100   | B         | 2.0  | 0.25 | ug/L |   | 10/03/16 14:00 | 10/04/16 22:56 | 1       |
| Selenium  | 1.5    | J         | 5.0  | 0.48 | ug/L |   | 10/03/16 14:00 | 10/04/16 22:56 | 1       |
| Sodium    | 50000  |           | 1000 | 14   | ug/L |   | 10/03/16 14:00 | 10/04/16 22:56 | 1       |

## General Chemistry

| Analyte                | Result | Qualifier | RL    | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Chloride               | 28     |           | 1.0   | 0.41   | mg/L |   |                | 10/05/16 09:52 | 1       |
| Sulfate                | 0.97   | J         | 1.0   | 0.13   | mg/L |   |                | 10/05/16 09:52 | 1       |
| Nitrate Nitrite as N   | 0.050  | U F1      | 0.050 | 0.0073 | mg/L |   |                | 10/06/16 15:03 | 1       |
| pH                     | 7.2    | HF        | 0.1   | 0.1    | SU   |   |                | 09/30/16 16:24 | 1       |
| Cyanide, Total         | 0.010  | U         | 0.010 | 0.0050 | mg/L |   | 10/11/16 08:53 | 10/11/16 13:14 | 1       |
| Total Dissolved Solids | 400    |           | 10    | 7.4    | mg/L |   |                | 10/05/16 14:33 | 1       |
| Ammonia (as N)         | 0.094  | J B       | 0.20  | 0.033  | mg/L |   |                | 10/12/16 09:27 | 1       |

## General Chemistry - Dissolved

| Analyte        | Result | Qualifier | RL    | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------|--------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Cyanide, Total | 0.010  | U         | 0.010 | 0.0050 | mg/L |   | 10/11/16 11:07 | 10/11/16 14:53 | 1       |

TestAmerica Canton

# Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70227-1

**Client Sample ID: DUP-02\_092816**

**Lab Sample ID: 240-70227-4**

**Date Collected: 09/28/16 00:00**

**Matrix: Water**

**Date Received: 09/30/16 09:10**

## Method: 6020 - Metals (ICP/MS) - Total Recoverable

| Analyte   | Result | Qualifier | RL   | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Arsenic   | 5.0    |           | 2.0  | 0.35 | ug/L |   | 10/03/16 14:00 | 10/04/16 23:58 | 1       |
| Barium    | 37     | B         | 5.0  | 0.52 | ug/L |   | 10/03/16 14:00 | 10/04/16 23:58 | 1       |
| Iron      | 4600   | B         | 50   | 5.3  | ug/L |   | 10/03/16 14:00 | 10/04/16 23:58 | 1       |
| Manganese | 1000   | B         | 2.0  | 0.25 | ug/L |   | 10/03/16 14:00 | 10/04/16 23:58 | 1       |
| Selenium  | 5.0    | U         | 5.0  | 0.48 | ug/L |   | 10/03/16 14:00 | 10/04/16 23:58 | 1       |
| Sodium    | 47000  |           | 1000 | 14   | ug/L |   | 10/03/16 14:00 | 10/04/16 23:58 | 1       |

## General Chemistry

| Analyte                | Result | Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-------|--------|------|---|----------|----------------|---------|
| Chloride               | 30     |           | 1.0   | 0.41   | mg/L |   |          | 09/30/16 21:16 | 1       |
| Sulfate                | 0.58   | J         | 1.0   | 0.13   | mg/L |   |          | 09/30/16 21:16 | 1       |
| Nitrate Nitrite as N   | 0.050  | U         | 0.050 | 0.0073 | mg/L |   |          | 10/06/16 15:08 | 1       |
| pH                     | 7.2    | HF        | 0.1   | 0.1    | SU   |   |          | 09/30/16 16:48 | 1       |
| Total Dissolved Solids | 410    |           | 10    | 7.4    | mg/L |   |          | 10/05/16 14:33 | 1       |
| Ammonia (as N)         | 0.088  | J         | 0.20  | 0.033  | mg/L |   |          | 10/04/16 13:33 | 1       |

## General Chemistry - Dissolved

| Analyte        | Result | Qualifier | RL    | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------|--------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Cyanide, Total | 0.010  | U         | 0.010 | 0.0050 | mg/L |   | 10/11/16 08:53 | 10/11/16 13:19 | 1       |

TestAmerica Canton

# Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70227-1

**Client Sample ID: EB-01\_092816**

**Lab Sample ID: 240-70227-5**

**Date Collected: 09/28/16 18:50**

**Matrix: Water**

**Date Received: 09/30/16 09:10**

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

| Analyte   | Result | Qualifier | RL   | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Arsenic   | 0.37   | J         | 2.0  | 0.35 | ug/L |   | 10/03/16 14:00 | 10/05/16 00:02 | 1       |
| Barium    | 5.0    | U         | 5.0  | 0.52 | ug/L |   | 10/03/16 14:00 | 10/05/16 00:02 | 1       |
| Iron      | 11     | J B       | 50   | 5.3  | ug/L |   | 10/03/16 14:00 | 10/05/16 00:02 | 1       |
| Manganese | 1.1    | J B       | 2.0  | 0.25 | ug/L |   | 10/03/16 14:00 | 10/05/16 00:02 | 1       |
| Selenium  | 5.0    | U         | 5.0  | 0.48 | ug/L |   | 10/03/16 14:00 | 10/05/16 00:02 | 1       |
| Sodium    | 190    | J         | 1000 | 14   | ug/L |   | 10/03/16 14:00 | 10/05/16 00:02 | 1       |

# QC Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70227-1

## Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 240-249537/1-A

Matrix: Water

Analysis Batch: 249851

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 249537

| Analyte   | MB Result | MB Qualifier | RL   | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|-----------|--------------|------|------|------|---|----------------|----------------|---------|
| Arsenic   | 2.0       | U            | 2.0  | 0.35 | ug/L |   | 10/03/16 14:00 | 10/04/16 22:19 | 1       |
| Barium    | 1.03      | J            | 5.0  | 0.52 | ug/L |   | 10/03/16 14:00 | 10/04/16 22:19 | 1       |
| Iron      | 29.4      | J            | 50   | 5.3  | ug/L |   | 10/03/16 14:00 | 10/04/16 22:19 | 1       |
| Manganese | 0.459     | J            | 2.0  | 0.25 | ug/L |   | 10/03/16 14:00 | 10/04/16 22:19 | 1       |
| Selenium  | 5.0       | U            | 5.0  | 0.48 | ug/L |   | 10/03/16 14:00 | 10/04/16 22:19 | 1       |
| Sodium    | 1000      | U            | 1000 | 14   | ug/L |   | 10/03/16 14:00 | 10/04/16 22:19 | 1       |

Lab Sample ID: LCS 240-249537/2-A

Matrix: Water

Analysis Batch: 249851

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 249537

| Analyte   | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------|-------------|------------|---------------|------|---|------|--------------|
| Arsenic   | 1000        | 1010       |               | ug/L |   | 101  | 80 - 120     |
| Barium    | 1000        | 932        |               | ug/L |   | 93   | 80 - 120     |
| Iron      | 10000       | 10800      |               | ug/L |   | 108  | 80 - 120     |
| Manganese | 1000        | 1090       |               | ug/L |   | 109  | 80 - 120     |
| Selenium  | 1000        | 1030       |               | ug/L |   | 103  | 80 - 120     |
| Sodium    | 10000       | 10700      |               | ug/L |   | 107  | 80 - 120     |

Lab Sample ID: 240-70227-3 MS

Matrix: Water

Analysis Batch: 249851

Client Sample ID: MW-183WT\_092816

Prep Type: Total Recoverable

Prep Batch: 249537

| Analyte   | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Arsenic   | 6.0           |                  | 1000        | 992       |              | ug/L |   | 99   | 75 - 125     |
| Barium    | 41            | B                | 1000        | 948       |              | ug/L |   | 91   | 75 - 125     |
| Iron      | 5000          | B                | 10000       | 14800     |              | ug/L |   | 98   | 75 - 125     |
| Manganese | 1100          | B                | 1000        | 2110      |              | ug/L |   | 98   | 75 - 125     |
| Selenium  | 0.82          | J                | 1000        | 992       |              | ug/L |   | 99   | 75 - 125     |
| Sodium    | 49000         |                  | 10000       | 58100     | 4            | ug/L |   | 88   | 75 - 125     |

Lab Sample ID: 240-70227-3 MSD

Matrix: Water

Analysis Batch: 249851

Client Sample ID: MW-183WT\_092816

Prep Type: Total Recoverable

Prep Batch: 249537

| Analyte   | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-----------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Arsenic   | 6.0           |                  | 1000        | 989        |               | ug/L |   | 98   | 75 - 125     | 0   | 20        |
| Barium    | 41            | B                | 1000        | 948        |               | ug/L |   | 91   | 75 - 125     | 0   | 20        |
| Iron      | 5000          | B                | 10000       | 15100      |               | ug/L |   | 101  | 75 - 125     | 2   | 20        |
| Manganese | 1100          | B                | 1000        | 2140       |               | ug/L |   | 101  | 75 - 125     | 1   | 20        |
| Selenium  | 0.82          | J                | 1000        | 984        |               | ug/L |   | 98   | 75 - 125     | 1   | 20        |
| Sodium    | 49000         |                  | 10000       | 58200      | 4             | ug/L |   | 90   | 75 - 125     | 0   | 20        |

Lab Sample ID: 240-70227-3 MS

Matrix: Water

Analysis Batch: 249851

Client Sample ID: MW-183WT\_092816

Prep Type: Dissolved

Prep Batch: 249537

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Arsenic | 4.1           |                  | 1000        | 1010      |              | ug/L |   | 101  | 75 - 125     |

TestAmerica Canton

# QC Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70227-1

## Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 240-70227-3 MS

Matrix: Water

Analysis Batch: 249851

Client Sample ID: MW-183WT\_092816

Prep Type: Dissolved

Prep Batch: 249537

| Analyte   | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Barium    | 40            | B                | 1000        | 951       |              | ug/L |   | 91   | 75 - 125     |
| Iron      | 5300          | B                | 10000       | 15300     |              | ug/L |   | 101  | 75 - 125     |
| Manganese | 1100          | B                | 1000        | 2130      |              | ug/L |   | 100  | 75 - 125     |
| Selenium  | 1.5           | J                | 1000        | 1020      |              | ug/L |   | 102  | 75 - 125     |
| Sodium    | 50000         |                  | 10000       | 59600     | 4            | ug/L |   | 92   | 75 - 125     |

Lab Sample ID: 240-70227-3 MSD

Matrix: Water

Analysis Batch: 249851

Client Sample ID: MW-183WT\_092816

Prep Type: Dissolved

Prep Batch: 249537

| Analyte   | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | Limit |
|-----------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-------|
| Arsenic   | 4.1           |                  | 1000        | 1010       |               | ug/L |   | 100  | 75 - 125     | 0   | 20    |
| Barium    | 40            | B                | 1000        | 956        |               | ug/L |   | 92   | 75 - 125     | 0   | 20    |
| Iron      | 5300          | B                | 10000       | 15400      |               | ug/L |   | 102  | 75 - 125     | 1   | 20    |
| Manganese | 1100          | B                | 1000        | 2120       |               | ug/L |   | 100  | 75 - 125     | 0   | 20    |
| Selenium  | 1.5           | J                | 1000        | 1010       |               | ug/L |   | 101  | 75 - 125     | 1   | 20    |
| Sodium    | 50000         |                  | 10000       | 59400      | 4             | ug/L |   | 89   | 75 - 125     | 0   | 20    |

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 240-249194/39

Matrix: Water

Analysis Batch: 249194

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte  | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| Chloride | 1.0       | U            | 1.0 | 0.41 | mg/L |   |          | 09/30/16 19:54 | 1       |
| Sulfate  | 1.0       | U            | 1.0 | 0.13 | mg/L |   |          | 09/30/16 19:54 | 1       |

Lab Sample ID: LCS 240-249194/40

Matrix: Water

Analysis Batch: 249194

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| Chloride | 50.0        | 54.0       |               | mg/L |   | 108  | 90 - 110     |
| Sulfate  | 50.0        | 50.5       |               | mg/L |   | 101  | 90 - 110     |

Lab Sample ID: 240-70227-2 MS

Matrix: Water

Analysis Batch: 249194

Client Sample ID: X-4CAUGR\_092816

Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Sulfate | 18            |                  | 50.0        | 74.3      |              | mg/L |   | 113  | 80 - 120     |

Lab Sample ID: 240-70227-2 MSD

Matrix: Water

Analysis Batch: 249194

Client Sample ID: X-4CAUGR\_092816

Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | Limit |
|---------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-------|
| Sulfate | 18            |                  | 50.0        | 72.8       |               | mg/L |   | 110  | 80 - 120     | 2   | 15    |

TestAmerica Canton

# QC Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70227-1

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 240-249797/3

Matrix: Water

Analysis Batch: 249797

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte  | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| Chloride | 1.0       | U            | 1.0 | 0.41 | mg/L |   |          | 10/05/16 05:30 | 1       |
| Sulfate  | 1.0       | U            | 1.0 | 0.13 | mg/L |   |          | 10/05/16 05:30 | 1       |

Lab Sample ID: LCS 240-249797/4

Matrix: Water

Analysis Batch: 249797

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| Chloride | 50.0        | 51.2       |               | mg/L |   | 102  | 90 - 110     |
| Sulfate  | 50.0        | 52.4       |               | mg/L |   | 105  | 90 - 110     |

Lab Sample ID: 240-70227-3 MS

Matrix: Water

Analysis Batch: 249797

Client Sample ID: MW-183WT\_092816

Prep Type: Total/NA

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Chloride | 28            |                  | 50.0        | 81.4      |              | mg/L |   | 106  | 80 - 120     |
| Sulfate  | 0.97          | J                | 50.0        | 57.2      |              | mg/L |   | 112  | 80 - 120     |

Lab Sample ID: 240-70227-3 MSD

Matrix: Water

Analysis Batch: 249797

Client Sample ID: MW-183WT\_092816

Prep Type: Total/NA

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Chloride | 28            |                  | 50.0        | 80.4       |               | mg/L |   | 104  | 80 - 120     | 1   | 15        |
| Sulfate  | 0.97          | J                | 50.0        | 56.4       |               | mg/L |   | 111  | 80 - 120     | 1   | 15        |

## Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 240-250239/4

Matrix: Water

Analysis Batch: 250239

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte              | MB Result | MB Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|-----------|--------------|-------|--------|------|---|----------|----------------|---------|
| Nitrate Nitrite as N | 0.050     | U            | 0.050 | 0.0073 | mg/L |   |          | 10/06/16 15:00 | 1       |

Lab Sample ID: LCS 240-250239/5

Matrix: Water

Analysis Batch: 250239

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte              | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------------|-------------|------------|---------------|------|---|------|--------------|
| Nitrate Nitrite as N | 1.93        | 1.95       |               | mg/L |   | 101  | 90 - 110     |

Lab Sample ID: 240-70227-3 MS

Matrix: Water

Analysis Batch: 250239

Client Sample ID: MW-183WT\_092816

Prep Type: Total/NA

| Analyte              | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Nitrate Nitrite as N | 0.050         | U F1             | 1.00        | 0.808     | F1           | mg/L |   | 81   | 90 - 110     |

TestAmerica Canton



# QC Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70227-1

## Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: 240-70227-3 MSD

Matrix: Water

Analysis Batch: 250239

Client Sample ID: MW-183WT\_092816

Prep Type: Total/NA

| Analyte              | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------------------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Nitrate Nitrite as N | 0.050         | U F1             | 1.00        | 0.812      | F1            | mg/L |   | 81   | 90 - 110     | 0   | 20        |

## Method: 4500 H+ B-2000 - pH

Lab Sample ID: LCS 240-249177/53

Matrix: Water

Analysis Batch: 249177

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|------|---|------|--------------|
| pH      | 9.14        | 9.2        |               | SU   |   | 100  | 97 - 103     |

Lab Sample ID: 240-70227-3 DU

Matrix: Water

Analysis Batch: 249177

Client Sample ID: MW-183WT\_092816

Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|---------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| pH      | 7.2           | HF               | 7.2       |              | SU   |   | 0   | 20        |

## Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 240-250773/1-A

Matrix: Water

Analysis Batch: 250874

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 250773

| Analyte        | MB Result | MB Qualifier | RL    | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|--------------|-------|--------|------|---|----------------|----------------|---------|
| Cyanide, Total | 0.010     | U            | 0.010 | 0.0050 | mg/L |   | 10/11/16 08:53 | 10/11/16 13:13 | 1       |

Lab Sample ID: LCS 240-250773/2-A

Matrix: Water

Analysis Batch: 250874

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 250773

| Analyte        | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------|-------------|------------|---------------|------|---|------|--------------|
| Cyanide, Total | 0.0400      | 0.0346     |               | mg/L |   | 87   | 59 - 129     |

Lab Sample ID: 240-70227-3 MS

Matrix: Water

Analysis Batch: 250874

Client Sample ID: MW-183WT\_092816

Prep Type: Total/NA

Prep Batch: 250773

| Analyte        | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Cyanide, Total | 0.010         | U                | 0.0400      | 0.0335    |              | mg/L |   | 84   | 22 - 135     |

Lab Sample ID: 240-70227-3 MSD

Matrix: Water

Analysis Batch: 250874

Client Sample ID: MW-183WT\_092816

Prep Type: Total/NA

Prep Batch: 250773

| Analyte        | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Cyanide, Total | 0.010         | U                | 0.0400      | 0.0229     |               | mg/L |   | 57   | 22 - 135     | 37  | 40        |

TestAmerica Canton

# QC Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70227-1

## Method: 9012A - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: MB 240-250815/1-A

Matrix: Water

Analysis Batch: 250898

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 250815

| Analyte        | MB<br>Result | MB<br>Qualifier | RL    | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------|--------------|-----------------|-------|--------|------|---|----------------|----------------|---------|
| Cyanide, Total | 0.010        | U               | 0.010 | 0.0050 | mg/L | - | 10/11/16 11:07 | 10/11/16 14:53 | 1       |

Lab Sample ID: LCS 240-250815/2-A

Matrix: Water

Analysis Batch: 250898

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 250815

| Analyte        | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|----------------|----------------|---------------|------------------|------|---|------|-----------------|
| Cyanide, Total | 0.0400         | 0.0335        |                  | mg/L | - | 84   | 59 - 129        |

Lab Sample ID: 240-70227-3 MS

Matrix: Water

Analysis Batch: 250898

Client Sample ID: MW-183WT\_092816

Prep Type: Dissolved

Prep Batch: 250815

| Analyte        | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|----------------|------------------|---------------------|----------------|--------------|-----------------|------|---|------|-----------------|
| Cyanide, Total | 0.010            | U                   | 0.0400         | 0.0298       |                 | mg/L | - | 75   | 22 - 135        |

Lab Sample ID: 240-70227-3 MSD

Matrix: Water

Analysis Batch: 250898

Client Sample ID: MW-183WT\_092816

Prep Type: Dissolved

Prep Batch: 250815

| Analyte        | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits | RPD | RPD<br>Limit |
|----------------|------------------|---------------------|----------------|---------------|------------------|------|---|------|-----------------|-----|--------------|
| Cyanide, Total | 0.010            | U                   | 0.0400         | 0.0221        |                  | mg/L | - | 55   | 22 - 135        | 30  | 40           |

## Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 240-249998/1

Matrix: Water

Analysis Batch: 249998

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                | MB<br>Result | MB<br>Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------------|-----------------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 10           | U               | 10 | 7.4 | mg/L | - |          | 10/05/16 14:33 | 1       |

Lab Sample ID: LCS 240-249998/2

Matrix: Water

Analysis Batch: 249998

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|------------------------|----------------|---------------|------------------|------|---|------|-----------------|
| Total Dissolved Solids | 216            | 222           |                  | mg/L | - | 103  | 80 - 120        |

## Method: SM 4500 NH3 D - Ammonia

Lab Sample ID: MB 240-249771/7

Matrix: Water

Analysis Batch: 249771

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte        | MB<br>Result | MB<br>Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------|--------------|-----------------|------|-------|------|---|----------|----------------|---------|
| Ammonia (as N) | 0.20         | U               | 0.20 | 0.033 | mg/L | - |          | 10/04/16 08:57 | 1       |

TestAmerica Canton

# QC Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70227-1

## Method: SM 4500 NH3 D - Ammonia (Continued)

Lab Sample ID: LCS 240-249771/8

Matrix: Water

Analysis Batch: 249771

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte        | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------|-------------|------------|---------------|------|---|------|--------------|
| Ammonia (as N) | 3.84        | 3.95       |               | mg/L |   | 103  | 85 - 114     |

Lab Sample ID: MB 240-251043/7

Matrix: Water

Analysis Batch: 251043

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte        | MB Result | MB Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| Ammonia (as N) | 0.112     | J            | 0.20 | 0.033 | mg/L |   |          | 10/12/16 07:33 | 1       |

Lab Sample ID: LCS 240-251043/8

Matrix: Water

Analysis Batch: 251043

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte        | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------|-------------|------------|---------------|------|---|------|--------------|
| Ammonia (as N) | 3.84        | 3.46       |               | mg/L |   | 90   | 85 - 114     |

Lab Sample ID: 240-70227-3 MS

Matrix: Water

Analysis Batch: 251043

Client Sample ID: MW-183WT\_092816

Prep Type: Total/NA

| Analyte        | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Ammonia (as N) | 0.094         | J B              | 2.50        | 2.43      |              | mg/L |   | 93   | 79 - 130     |

Lab Sample ID: 240-70227-3 MSD

Matrix: Water

Analysis Batch: 251043

Client Sample ID: MW-183WT\_092816

Prep Type: Total/NA

| Analyte        | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Ammonia (as N) | 0.094         | J B              | 2.50        | 2.45       |               | mg/L |   | 94   | 79 - 130     | 1   | 10        |

TestAmerica Canton

# QC Association Summary

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70227-1

## Metals

### Prep Batch: 249537

| Lab Sample ID      | Client Sample ID   | Prep Type         | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 240-70227-1        | X-4D_092816        | Dissolved         | Water  | 3005A  |            |
| 240-70227-1        | X-4D_092816        | Total Recoverable | Water  | 3005A  |            |
| 240-70227-2        | X-4CAUGR_092816    | Dissolved         | Water  | 3005A  |            |
| 240-70227-2        | X-4CAUGR_092816    | Total Recoverable | Water  | 3005A  |            |
| 240-70227-3        | MW-183WT_092816    | Dissolved         | Water  | 3005A  |            |
| 240-70227-3        | MW-183WT_092816    | Total Recoverable | Water  | 3005A  |            |
| 240-70227-4        | DUP-02_092816      | Total Recoverable | Water  | 3005A  |            |
| 240-70227-5        | EB-01_092816       | Total Recoverable | Water  | 3005A  |            |
| MB 240-249537/1-A  | Method Blank       | Total Recoverable | Water  | 3005A  |            |
| LCS 240-249537/2-A | Lab Control Sample | Total Recoverable | Water  | 3005A  |            |
| 240-70227-3 MS     | MW-183WT_092816    | Dissolved         | Water  | 3005A  |            |
| 240-70227-3 MS     | MW-183WT_092816    | Total Recoverable | Water  | 3005A  |            |
| 240-70227-3 MSD    | MW-183WT_092816    | Dissolved         | Water  | 3005A  |            |
| 240-70227-3 MSD    | MW-183WT_092816    | Total Recoverable | Water  | 3005A  |            |

### Analysis Batch: 249851

| Lab Sample ID      | Client Sample ID   | Prep Type         | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 240-70227-2        | X-4CAUGR_092816    | Dissolved         | Water  | 6020   | 249537     |
| 240-70227-2        | X-4CAUGR_092816    | Total Recoverable | Water  | 6020   | 249537     |
| 240-70227-3        | MW-183WT_092816    | Dissolved         | Water  | 6020   | 249537     |
| 240-70227-3        | MW-183WT_092816    | Total Recoverable | Water  | 6020   | 249537     |
| 240-70227-4        | DUP-02_092816      | Total Recoverable | Water  | 6020   | 249537     |
| 240-70227-5        | EB-01_092816       | Total Recoverable | Water  | 6020   | 249537     |
| MB 240-249537/1-A  | Method Blank       | Total Recoverable | Water  | 6020   | 249537     |
| LCS 240-249537/2-A | Lab Control Sample | Total Recoverable | Water  | 6020   | 249537     |
| 240-70227-3 MS     | MW-183WT_092816    | Dissolved         | Water  | 6020   | 249537     |
| 240-70227-3 MS     | MW-183WT_092816    | Total Recoverable | Water  | 6020   | 249537     |
| 240-70227-3 MSD    | MW-183WT_092816    | Dissolved         | Water  | 6020   | 249537     |
| 240-70227-3 MSD    | MW-183WT_092816    | Total Recoverable | Water  | 6020   | 249537     |

### Analysis Batch: 250061

| Lab Sample ID | Client Sample ID | Prep Type         | Matrix | Method | Prep Batch |
|---------------|------------------|-------------------|--------|--------|------------|
| 240-70227-1   | X-4D_092816      | Dissolved         | Water  | 6020   | 249537     |
| 240-70227-1   | X-4D_092816      | Dissolved         | Water  | 6020   | 249537     |
| 240-70227-1   | X-4D_092816      | Total Recoverable | Water  | 6020   | 249537     |
| 240-70227-1   | X-4D_092816      | Total Recoverable | Water  | 6020   | 249537     |

## General Chemistry

### Analysis Batch: 249177

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method         | Prep Batch |
|-------------------|--------------------|-----------|--------|----------------|------------|
| 240-70227-1       | X-4D_092816        | Total/NA  | Water  | 4500 H+ B-2000 |            |
| 240-70227-2       | X-4CAUGR_092816    | Total/NA  | Water  | 4500 H+ B-2000 |            |
| 240-70227-3       | MW-183WT_092816    | Total/NA  | Water  | 4500 H+ B-2000 |            |
| 240-70227-4       | DUP-02_092816      | Total/NA  | Water  | 4500 H+ B-2000 |            |
| LCS 240-249177/53 | Lab Control Sample | Total/NA  | Water  | 4500 H+ B-2000 |            |
| 240-70227-3 DU    | MW-183WT_092816    | Total/NA  | Water  | 4500 H+ B-2000 |            |

TestAmerica Canton

# QC Association Summary

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70227-1

## General Chemistry (Continued)

### Analysis Batch: 249194

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 240-70227-1       | X-4D_092816        | Total/NA  | Water  | 300.0  |            |
| 240-70227-2       | X-4CAUGR_092816    | Total/NA  | Water  | 300.0  |            |
| 240-70227-4       | DUP-02_092816      | Total/NA  | Water  | 300.0  |            |
| MB 240-249194/39  | Method Blank       | Total/NA  | Water  | 300.0  |            |
| LCS 240-249194/40 | Lab Control Sample | Total/NA  | Water  | 300.0  |            |
| 240-70227-2 MS    | X-4CAUGR_092816    | Total/NA  | Water  | 300.0  |            |
| 240-70227-2 MSD   | X-4CAUGR_092816    | Total/NA  | Water  | 300.0  |            |

### Analysis Batch: 249771

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method        | Prep Batch |
|------------------|--------------------|-----------|--------|---------------|------------|
| 240-70227-4      | DUP-02_092816      | Total/NA  | Water  | SM 4500 NH3 D |            |
| MB 240-249771/7  | Method Blank       | Total/NA  | Water  | SM 4500 NH3 D |            |
| LCS 240-249771/8 | Lab Control Sample | Total/NA  | Water  | SM 4500 NH3 D |            |

### Analysis Batch: 249797

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 240-70227-1      | X-4D_092816        | Total/NA  | Water  | 300.0  |            |
| 240-70227-3      | MW-183WT_092816    | Total/NA  | Water  | 300.0  |            |
| MB 240-249797/3  | Method Blank       | Total/NA  | Water  | 300.0  |            |
| LCS 240-249797/4 | Lab Control Sample | Total/NA  | Water  | 300.0  |            |
| 240-70227-3 MS   | MW-183WT_092816    | Total/NA  | Water  | 300.0  |            |
| 240-70227-3 MSD  | MW-183WT_092816    | Total/NA  | Water  | 300.0  |            |

### Analysis Batch: 249998

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method   | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 240-70227-1      | X-4D_092816        | Total/NA  | Water  | SM 2540C |            |
| 240-70227-2      | X-4CAUGR_092816    | Total/NA  | Water  | SM 2540C |            |
| 240-70227-3      | MW-183WT_092816    | Total/NA  | Water  | SM 2540C |            |
| 240-70227-4      | DUP-02_092816      | Total/NA  | Water  | SM 2540C |            |
| MB 240-249998/1  | Method Blank       | Total/NA  | Water  | SM 2540C |            |
| LCS 240-249998/2 | Lab Control Sample | Total/NA  | Water  | SM 2540C |            |

### Analysis Batch: 250239

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 240-70227-1      | X-4D_092816        | Total/NA  | Water  | 353.2  |            |
| 240-70227-2      | X-4CAUGR_092816    | Total/NA  | Water  | 353.2  |            |
| 240-70227-3      | MW-183WT_092816    | Total/NA  | Water  | 353.2  |            |
| 240-70227-4      | DUP-02_092816      | Total/NA  | Water  | 353.2  |            |
| MB 240-250239/4  | Method Blank       | Total/NA  | Water  | 353.2  |            |
| LCS 240-250239/5 | Lab Control Sample | Total/NA  | Water  | 353.2  |            |
| 240-70227-3 MS   | MW-183WT_092816    | Total/NA  | Water  | 353.2  |            |
| 240-70227-3 MSD  | MW-183WT_092816    | Total/NA  | Water  | 353.2  |            |

### Prep Batch: 250773

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 240-70227-1   | X-4D_092816      | Dissolved | Water  | 9012A  |            |
| 240-70227-1   | X-4D_092816      | Total/NA  | Water  | 9012A  |            |
| 240-70227-2   | X-4CAUGR_092816  | Dissolved | Water  | 9012A  |            |
| 240-70227-2   | X-4CAUGR_092816  | Total/NA  | Water  | 9012A  |            |
| 240-70227-3   | MW-183WT_092816  | Total/NA  | Water  | 9012A  |            |
| 240-70227-4   | DUP-02_092816    | Dissolved | Water  | 9012A  |            |

TestAmerica Canton

# QC Association Summary

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70227-1

## General Chemistry (Continued)

### Prep Batch: 250773 (Continued)

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| MB 240-250773/1-A  | Method Blank       | Total/NA  | Water  | 9012A  |            |
| LCS 240-250773/2-A | Lab Control Sample | Total/NA  | Water  | 9012A  |            |
| 240-70227-3 MS     | MW-183WT_092816    | Total/NA  | Water  | 9012A  |            |
| 240-70227-3 MSD    | MW-183WT_092816    | Total/NA  | Water  | 9012A  |            |

### Prep Batch: 250815

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 240-70227-3        | MW-183WT_092816    | Dissolved | Water  | 9012A  |            |
| MB 240-250815/1-A  | Method Blank       | Total/NA  | Water  | 9012A  |            |
| LCS 240-250815/2-A | Lab Control Sample | Total/NA  | Water  | 9012A  |            |
| 240-70227-3 MS     | MW-183WT_092816    | Dissolved | Water  | 9012A  |            |
| 240-70227-3 MSD    | MW-183WT_092816    | Dissolved | Water  | 9012A  |            |

### Analysis Batch: 250874

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 240-70227-1        | X-4D_092816        | Dissolved | Water  | 9012A  | 250773     |
| 240-70227-1        | X-4D_092816        | Total/NA  | Water  | 9012A  | 250773     |
| 240-70227-2        | X-4CAUGR_092816    | Dissolved | Water  | 9012A  | 250773     |
| 240-70227-2        | X-4CAUGR_092816    | Total/NA  | Water  | 9012A  | 250773     |
| 240-70227-3        | MW-183WT_092816    | Total/NA  | Water  | 9012A  | 250773     |
| 240-70227-4        | DUP-02_092816      | Dissolved | Water  | 9012A  | 250773     |
| MB 240-250773/1-A  | Method Blank       | Total/NA  | Water  | 9012A  | 250773     |
| LCS 240-250773/2-A | Lab Control Sample | Total/NA  | Water  | 9012A  | 250773     |
| 240-70227-3 MS     | MW-183WT_092816    | Total/NA  | Water  | 9012A  | 250773     |
| 240-70227-3 MSD    | MW-183WT_092816    | Total/NA  | Water  | 9012A  | 250773     |

### Analysis Batch: 250898

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 240-70227-3        | MW-183WT_092816    | Dissolved | Water  | 9012A  | 250815     |
| MB 240-250815/1-A  | Method Blank       | Total/NA  | Water  | 9012A  | 250815     |
| LCS 240-250815/2-A | Lab Control Sample | Total/NA  | Water  | 9012A  | 250815     |
| 240-70227-3 MS     | MW-183WT_092816    | Dissolved | Water  | 9012A  | 250815     |
| 240-70227-3 MSD    | MW-183WT_092816    | Dissolved | Water  | 9012A  | 250815     |

### Analysis Batch: 251043

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method        | Prep Batch |
|------------------|--------------------|-----------|--------|---------------|------------|
| 240-70227-1      | X-4D_092816        | Total/NA  | Water  | SM 4500 NH3 D |            |
| 240-70227-2      | X-4CAUGR_092816    | Total/NA  | Water  | SM 4500 NH3 D |            |
| 240-70227-3      | MW-183WT_092816    | Total/NA  | Water  | SM 4500 NH3 D |            |
| MB 240-251043/7  | Method Blank       | Total/NA  | Water  | SM 4500 NH3 D |            |
| LCS 240-251043/8 | Lab Control Sample | Total/NA  | Water  | SM 4500 NH3 D |            |
| 240-70227-3 MS   | MW-183WT_092816    | Total/NA  | Water  | SM 4500 NH3 D |            |
| 240-70227-3 MSD  | MW-183WT_092816    | Total/NA  | Water  | SM 4500 NH3 D |            |

TestAmerica Canton

# Lab Chronicle

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70227-1

**Client Sample ID: X-4D\_092816**

**Date Collected: 09/28/16 13:20**

**Date Received: 09/30/16 09:10**

**Lab Sample ID: 240-70227-1**

**Matrix: Water**

| Prep Type         | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Dissolved         | Prep       | 3005A          |     |                 | 249537       | 10/03/16 14:00       | AJC     | TAL CAN |
| Dissolved         | Analysis   | 6020           |     | 1               | 250061       | 10/05/16 23:30       | RKT     | TAL CAN |
| Dissolved         | Prep       | 3005A          |     |                 | 249537       | 10/03/16 14:00       | AJC     | TAL CAN |
| Dissolved         | Analysis   | 6020           |     | 5               | 250061       | 10/05/16 23:34       | RKT     | TAL CAN |
| Total Recoverable | Prep       | 3005A          |     |                 | 249537       | 10/03/16 14:00       | AJC     | TAL CAN |
| Total Recoverable | Analysis   | 6020           |     | 1               | 250061       | 10/05/16 23:13       | RKT     | TAL CAN |
| Total Recoverable | Prep       | 3005A          |     |                 | 249537       | 10/03/16 14:00       | AJC     | TAL CAN |
| Total Recoverable | Analysis   | 6020           |     | 5               | 250061       | 10/05/16 23:17       | RKT     | TAL CAN |
| Total/NA          | Analysis   | 300.0          |     | 10              | 249194       | 09/30/16 23:44       | LKG     | TAL CAN |
| Total/NA          | Analysis   | 300.0          |     | 10              | 249797       | 10/05/16 09:32       | LKG     | TAL CAN |
| Total/NA          | Analysis   | 353.2          |     | 1               | 250239       | 10/06/16 15:06       | LKG     | TAL CAN |
| Total/NA          | Analysis   | 4500 H+ B-2000 |     | 1               | 249177       | 09/30/16 16:32       | BLW     | TAL CAN |
| Dissolved         | Prep       | 9012A          |     |                 | 250773       | 10/11/16 08:53       | DTN     | TAL CAN |
| Dissolved         | Analysis   | 9012A          |     | 1               | 250874       | 10/11/16 13:14       | DTN     | TAL CAN |
| Total/NA          | Prep       | 9012A          |     |                 | 250773       | 10/11/16 08:53       | DTN     | TAL CAN |
| Total/NA          | Analysis   | 9012A          |     | 1               | 250874       | 10/11/16 13:14       | DTN     | TAL CAN |
| Total/NA          | Analysis   | SM 2540C       |     | 1               | 249998       | 10/05/16 14:33       | JW      | TAL CAN |
| Total/NA          | Analysis   | SM 4500 NH3 D  |     | 2               | 251043       | 10/12/16 08:30       | JAS     | TAL CAN |

**Client Sample ID: X-4CAUGR\_092816**

**Date Collected: 09/28/16 13:25**

**Date Received: 09/30/16 09:10**

**Lab Sample ID: 240-70227-2**

**Matrix: Water**

| Prep Type         | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Dissolved         | Prep       | 3005A          |     |                 | 249537       | 10/03/16 14:00       | AJC     | TAL CAN |
| Dissolved         | Analysis   | 6020           |     | 1               | 249851       | 10/04/16 23:54       | RKT     | TAL CAN |
| Total Recoverable | Prep       | 3005A          |     |                 | 249537       | 10/03/16 14:00       | AJC     | TAL CAN |
| Total Recoverable | Analysis   | 6020           |     | 1               | 249851       | 10/04/16 23:50       | RKT     | TAL CAN |
| Total/NA          | Analysis   | 300.0          |     | 1               | 249194       | 09/30/16 20:27       | LKG     | TAL CAN |
| Total/NA          | Analysis   | 353.2          |     | 1               | 250239       | 10/06/16 15:07       | LKG     | TAL CAN |
| Total/NA          | Analysis   | 4500 H+ B-2000 |     | 1               | 249177       | 09/30/16 16:40       | BLW     | TAL CAN |
| Dissolved         | Prep       | 9012A          |     |                 | 250773       | 10/11/16 08:53       | DTN     | TAL CAN |
| Dissolved         | Analysis   | 9012A          |     | 1               | 250874       | 10/11/16 13:19       | DTN     | TAL CAN |
| Total/NA          | Prep       | 9012A          |     |                 | 250773       | 10/11/16 08:53       | DTN     | TAL CAN |
| Total/NA          | Analysis   | 9012A          |     | 1               | 250874       | 10/11/16 13:14       | DTN     | TAL CAN |
| Total/NA          | Analysis   | SM 2540C       |     | 1               | 249998       | 10/05/16 14:33       | JW      | TAL CAN |
| Total/NA          | Analysis   | SM 4500 NH3 D  |     | 1               | 251043       | 10/12/16 08:47       | JAS     | TAL CAN |

TestAmerica Canton



# Lab Chronicle

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70227-1

**Client Sample ID: MW-183WT\_092816**

**Lab Sample ID: 240-70227-3**

**Date Collected: 09/28/16 15:30**

**Matrix: Water**

**Date Received: 09/30/16 09:10**

| Prep Type         | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Dissolved         | Prep       | 3005A          |     |                 | 249537       | 10/03/16 14:00       | AJC     | TAL CAN |
| Dissolved         | Analysis   | 6020           |     | 1               | 249851       | 10/04/16 22:56       | RKT     | TAL CAN |
| Total Recoverable | Prep       | 3005A          |     |                 | 249537       | 10/03/16 14:00       | AJC     | TAL CAN |
| Total Recoverable | Analysis   | 6020           |     | 1               | 249851       | 10/04/16 22:27       | RKT     | TAL CAN |
| Total/NA          | Analysis   | 300.0          |     | 1               | 249797       | 10/05/16 09:52       | LKG     | TAL CAN |
| Total/NA          | Analysis   | 353.2          |     | 1               | 250239       | 10/06/16 15:03       | LKG     | TAL CAN |
| Total/NA          | Analysis   | 4500 H+ B-2000 |     | 1               | 249177       | 09/30/16 16:24       | BLW     | TAL CAN |
| Dissolved         | Prep       | 9012A          |     |                 | 250815       | 10/11/16 11:07       | DTN     | TAL CAN |
| Dissolved         | Analysis   | 9012A          |     | 1               | 250898       | 10/11/16 14:53       | DTN     | TAL CAN |
| Total/NA          | Prep       | 9012A          |     |                 | 250773       | 10/11/16 08:53       | DTN     | TAL CAN |
| Total/NA          | Analysis   | 9012A          |     | 1               | 250874       | 10/11/16 13:14       | DTN     | TAL CAN |
| Total/NA          | Analysis   | SM 2540C       |     | 1               | 249998       | 10/05/16 14:33       | JW      | TAL CAN |
| Total/NA          | Analysis   | SM 4500 NH3 D  |     | 1               | 251043       | 10/12/16 09:27       | JAS     | TAL CAN |

**Client Sample ID: DUP-02\_092816**

**Lab Sample ID: 240-70227-4**

**Date Collected: 09/28/16 00:00**

**Matrix: Water**

**Date Received: 09/30/16 09:10**

| Prep Type         | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 3005A          |     |                 | 249537       | 10/03/16 14:00       | AJC     | TAL CAN |
| Total Recoverable | Analysis   | 6020           |     | 1               | 249851       | 10/04/16 23:58       | RKT     | TAL CAN |
| Total/NA          | Analysis   | 300.0          |     | 1               | 249194       | 09/30/16 21:16       | LKG     | TAL CAN |
| Total/NA          | Analysis   | 353.2          |     | 1               | 250239       | 10/06/16 15:08       | LKG     | TAL CAN |
| Total/NA          | Analysis   | 4500 H+ B-2000 |     | 1               | 249177       | 09/30/16 16:48       | BLW     | TAL CAN |
| Dissolved         | Prep       | 9012A          |     |                 | 250773       | 10/11/16 08:53       | DTN     | TAL CAN |
| Dissolved         | Analysis   | 9012A          |     | 1               | 250874       | 10/11/16 13:19       | DTN     | TAL CAN |
| Total/NA          | Analysis   | SM 2540C       |     | 1               | 249998       | 10/05/16 14:33       | JW      | TAL CAN |
| Total/NA          | Analysis   | SM 4500 NH3 D  |     | 1               | 249771       | 10/04/16 13:33       | JAS     | TAL CAN |

**Client Sample ID: EB-01\_092816**

**Lab Sample ID: 240-70227-5**

**Date Collected: 09/28/16 18:50**

**Matrix: Water**

**Date Received: 09/30/16 09:10**

| Prep Type         | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 3005A        |     |                 | 249537       | 10/03/16 14:00       | AJC     | TAL CAN |
| Total Recoverable | Analysis   | 6020         |     | 1               | 249851       | 10/05/16 00:02       | RKT     | TAL CAN |

## Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TestAmerica Canton

# Certification Summary

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Green Pt Landfill

TestAmerica Job ID: 240-70227-1

## Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority             | Program       | EPA Region | Certification ID | Expiration Date |
|-----------------------|---------------|------------|------------------|-----------------|
| California            | NELAP         | 9          | 01144CA          | 06-30-14 *      |
| California            | State Program | 9          | 2927             | 04-30-17        |
| Connecticut           | State Program | 1          | PH-0590          | 12-31-17        |
| Florida               | NELAP         | 4          | E87225           | 06-30-17        |
| Illinois              | NELAP         | 5          | 200004           | 07-31-17        |
| Kansas                | NELAP         | 7          | E-10336          | 01-31-17        |
| Kentucky (UST)        | State Program | 4          | 58               | 02-23-17        |
| Kentucky (VW)         | State Program | 4          | 98016            | 12-31-16 *      |
| Minnesota             | NELAP         | 5          | 039-999-348      | 12-31-16 *      |
| Minnesota (Petrofund) | State Program | 1          | 3506             | 07-31-17        |
| Nevada                | State Program | 9          | OH-000482008A    | 07-31-17        |
| New Jersey            | NELAP         | 2          | OH001            | 06-30-17        |
| New York              | NELAP         | 2          | 10975            | 03-31-17        |
| Ohio VAP              | State Program | 5          | CL0024           | 09-14-17        |
| Oregon                | NELAP         | 10         | 4062             | 02-23-17        |
| Pennsylvania          | NELAP         | 3          | 68-00340         | 08-31-17        |
| Texas                 | NELAP         | 6          | T104704517-15-5  | 08-31-17        |
| USDA                  | Federal       |            | P330-13-00319    | 11-26-16 *      |
| Virginia              | NELAP         | 3          | 460175           | 09-14-17        |
| Washington            | State Program | 10         | C971             | 01-12-17        |
| West Virginia DEP     | State Program | 3          | 210              | 12-31-16 *      |
| Wisconsin             | State Program | 5          | 999518190        | 08-31-17        |

\* Certification renewal pending - certification considered valid.

TestAmerica Canton

TestAmerica Michigan  
10448 Citation Drive  
Suite 200  
Brighton, MI 48116  
Phone: 810.229.2763 Fax:

Chain of Custody Record

3.6/04.0

TestAmerica  
THE LEADER IN ENVIRONMENTAL TESTING  
TestAmerica Laboratories, Inc.  
TAL-8210 (0713)

163560

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

|                                                                                                               |  |                                                                              |  |                                                                                                                                                                   |  |                                                                                     |  |                            |  |
|---------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------|--|----------------------------|--|
| Client Contact                                                                                                |  | Project Manager: SCOTT CLEAWAY                                               |  | Site Contact:                                                                                                                                                     |  | Date:                                                                               |  | COC No:                    |  |
| Company Name: ALCANIS                                                                                         |  | Tel/Fax: 248-994-2240                                                        |  | Lab Contact:                                                                                                                                                      |  | Carrier:                                                                            |  | of COCs                    |  |
| Address: 28550 CAGAN DR. SUITE 500                                                                            |  | Analysis Turnaround Time                                                     |  | Filtered Sample (Y/N)                                                                                                                                             |  | Perform MS/MSD (Y/N)                                                                |  | Sampler:                   |  |
| City/State/Zip: NGUYEN, MI 48177                                                                              |  | <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS |  | Sample Type (C=Comp, G=Grab)                                                                                                                                      |  | Matrix                                                                              |  | For Lab Use Only:          |  |
| Phone: 248.994-2240                                                                                           |  | TAT if different from Below                                                  |  | Sample Time                                                                                                                                                       |  | # of Cont.                                                                          |  | Walk-in Client:            |  |
| Fax: 248-994-2241                                                                                             |  | <input type="checkbox"/> 2 weeks                                             |  | 9/28/10 13:20                                                                                                                                                     |  | 6W 7                                                                                |  | Lab Sampling:              |  |
| Project Name: GREEN JOHN CAGAN                                                                                |  | <input type="checkbox"/> 1 week                                              |  | 9/28/10 13:25                                                                                                                                                     |  | 6W 7                                                                                |  | Job / SDG No.:             |  |
| Site: ROSEN SAVANNAH                                                                                          |  | <input type="checkbox"/> 2 days                                              |  | 9/28/10 15:30                                                                                                                                                     |  | 6W 17                                                                               |  | Sample Specific Notes:     |  |
| P.O.# B0050090:2016                                                                                           |  | <input type="checkbox"/> 1 day                                               |  | 9/28/10 16:50                                                                                                                                                     |  | 6W 1                                                                                |  | MSMSO                      |  |
| Sample Identification                                                                                         |  | Sample Date                                                                  |  | Sample Time                                                                                                                                                       |  | Matrix                                                                              |  | Sample Specific Notes:     |  |
| X-40-092816                                                                                                   |  | 9/28/10                                                                      |  | 13:20                                                                                                                                                             |  | 6W 7                                                                                |  | 240-70227 Chain of Custody |  |
| X-4CAGAN-092816                                                                                               |  | 9/28/10                                                                      |  | 13:25                                                                                                                                                             |  | 6W 7                                                                                |  |                            |  |
| MW-183WT-092816                                                                                               |  | 9/28/10                                                                      |  | 15:30                                                                                                                                                             |  | 6W 17                                                                               |  |                            |  |
| DUP-02-092816                                                                                                 |  | 9/28/10                                                                      |  | ---                                                                                                                                                               |  | 6W 5                                                                                |  |                            |  |
| EEB-01-092816                                                                                                 |  | 9/28/10                                                                      |  | 16:50                                                                                                                                                             |  | 6W 1                                                                                |  |                            |  |
| Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other                                       |  | Possible Hazard Identification:                                              |  | Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. |  | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) |  |                            |  |
| <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant |  | <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown           |  |                                                                                                                                                                   |  |                                                                                     |  |                            |  |
| Special Instructions/QC Requirements & Comments:                                                              |  |                                                                              |  |                                                                                                                                                                   |  |                                                                                     |  |                            |  |
| Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No                                |  | Custody Seal No.:                                                            |  | Cooler Temp. (°C): Obs'd:                                                                                                                                         |  | Corr'd:                                                                             |  | Therm ID No.:              |  |
| Relinquished by:                                                                                              |  | Company: ALCANIS                                                             |  | Received by:                                                                                                                                                      |  | Company: T/A                                                                        |  | Date/Time: 9/29/10 6:30    |  |
| Relinquished by:                                                                                              |  | Company: T/A                                                                 |  | Received by:                                                                                                                                                      |  | Company: T/A                                                                        |  | Date/Time: 9/29/10 9:10    |  |
| Relinquished by:                                                                                              |  | Company:                                                                     |  | Received in Laboratory by:                                                                                                                                        |  | Company:                                                                            |  | Date/Time:                 |  |

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| TestAmerica Canton Sample Receipt Form/Narrative                                                         |                          |                                        |  | Login # : <u>70227</u> |
|----------------------------------------------------------------------------------------------------------|--------------------------|----------------------------------------|--|------------------------|
| <b>Canton Facility</b>                                                                                   |                          |                                        |  |                        |
| Client <u>Arcadis</u>                                                                                    | Site Name _____          | Cooler unpacked by: <u>[Signature]</u> |  |                        |
| Cooler Received on <u>9/30/16</u>                                                                        | Opened on <u>9/30/16</u> |                                        |  |                        |
| FedEx: 1 <sup>st</sup> <u>Grd</u> Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____    |                          |                                        |  |                        |
| <b>Receipt After-hours: Drop-off Date/Time _____ Storage Location _____</b>                              |                          |                                        |  |                        |
| TestAmerica Cooler # _____ Foam Box <u>Client Cooler</u> Box _____ Other _____                           |                          |                                        |  |                        |
| Packing material used: <u>Bubble Wrap</u> Foam Plastic Bag None Other _____                              |                          |                                        |  |                        |
| COOLANT: <u>Wet Ice</u> Blue Ice Dry Ice Water <u>None</u>                                               |                          |                                        |  |                        |
| 1. Cooler temperature upon receipt <u>See Multiple Cooler Form</u>                                       |                          |                                        |  |                        |
| IR GUN# IR-8 (CF +0.4 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C                 |                          |                                        |  |                        |
| IR GUN #36 (CF +1.3 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C                   |                          |                                        |  |                        |
| 2. Were custody seals on the outside of the cooler(s)? If Yes Quantity _____ Yes <u>No</u>               |                          |                                        |  |                        |
| -Were custody seals on the outside of the cooler(s) signed & dated? Yes <u>No</u> <u>NA</u>              |                          |                                        |  |                        |
| -Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes <u>No</u>                           |                          |                                        |  |                        |
| 3. Shippers' packing slip attached to the cooler(s)? <u>Yes</u> No                                       |                          |                                        |  |                        |
| 4. Did custody papers accompany the sample(s)? <u>Yes</u> No                                             |                          |                                        |  |                        |
| 5. Were the custody papers relinquished & signed in the appropriate place? <u>Yes</u> No                 |                          |                                        |  |                        |
| 6. Was/were the person(s) who collected the samples clearly identified on the COC? <u>Yes</u> No         |                          |                                        |  |                        |
| 7. Did all bottles arrive in good condition (Unbroken)? <u>Yes</u> No                                    |                          |                                        |  |                        |
| 8. Could all bottle labels be reconciled with the COC? <u>Yes</u> No                                     |                          |                                        |  |                        |
| 9. Were correct bottle(s) used for the test(s) indicated? <u>Yes</u> No                                  |                          |                                        |  |                        |
| 10. Sufficient quantity received to perform indicated analyses? <u>Yes</u> No                            |                          |                                        |  |                        |
| 11. Are these work share samples? <u>Yes</u> No                                                          |                          |                                        |  |                        |
| If yes, Questions 11-15 have been checked at the originating laboratory.                                 |                          |                                        |  |                        |
| 11. Were sample(s) at the correct pH upon receipt? <u>Yes</u> No <u>NA</u> pH Strip Lot# <u>HC574756</u> |                          |                                        |  |                        |
| 12. Were VOAs on the COC? <u>Yes</u> No                                                                  |                          |                                        |  |                        |
| 13. Were air bubbles >6 mm in any VOA vials? <u>Yes</u> No <u>NA</u>                                     |                          |                                        |  |                        |
| 14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes <u>No</u>                  |                          |                                        |  |                        |
| 15. Was a LL Hg or Me Hg trip blank present? _____ Yes <u>No</u>                                         |                          |                                        |  |                        |
| Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____                                 |                          |                                        |  |                        |
| Concerning _____                                                                                         |                          |                                        |  |                        |

|                                                                                                                                                                                                                                                  |                                                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| <b>14. CHAIN OF CUSTODY &amp; SAMPLE DISCREPANCIES</b><br><br><br><br><br><br><br><br><br><br>                                                                                                                                                   | Samples processed by: _____<br><br><br><br><br><br><br><br><br> |
| <b>15. SAMPLE CONDITION</b><br>Sample(s) _____ were received after the recommended holding time had expired.<br>Sample(s) _____ were received in a broken container.<br>Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM) |                                                                 |
| <b>16. SAMPLE PRESERVATION</b><br>Sample(s) _____ were further preserved in the laboratory.<br>Time preserved: _____ Preservative(s) added/Lot number(s): _____                                                                                  |                                                                 |

*X:\X-Drive Document Control\SOPs\Work Instructions\Word Version Work Instructions\WI-NC-099H-071615 Cooler Receipt Form page 2 - Multiple Coolers.doc rls*

Temperature readings: \_\_\_\_\_

| <u>Client Sample ID</u> | <u>Lab ID</u> | <u>Container Type</u>              | <u>Container<br/>pH</u> | <u>Preservative<br/>Added (mls)</u> | <u>Lot #</u> |
|-------------------------|---------------|------------------------------------|-------------------------|-------------------------------------|--------------|
| X-4D_092816             | 240-70227-A-1 | Plastic 250ml - with Sodium Hydrox | >12                     | _____                               | _____        |
| X-4D_092816             | 240-70227-B-1 | Plastic 250ml - with Sodium Hydrox | >12                     | _____                               | _____        |
| X-4D_092816             | 240-70227-E-1 | Plastic 500ml - with Sulfuric Acid | <2                      | _____                               | _____        |
| X-4D_092816             | 240-70227-F-1 | Plastic 500ml - with Nitric Acid   | <2                      | _____                               | _____        |
| X-4D_092816             | 240-70227-G-1 | Plastic 500ml - w/ Nitric - Dis.   | <2                      | _____                               | _____        |
| X-4CAVGR_092816         | 240-70227-A-2 | Plastic 250ml - with Sodium Hydrox | >12                     | _____                               | _____        |
| X-4CAVGR_092816         | 240-70227-B-2 | Plastic 250ml - with Sodium Hydrox | >12                     | _____                               | _____        |
| X-4CAVGR_092816         | 240-70227-E-2 | Plastic 500ml - with Sulfuric Acid | <2                      | _____                               | _____        |
| X-4CAVGR_092816         | 240-70227-F-2 | Plastic 500ml - with Nitric Acid   | <2                      | _____                               | _____        |
| X-4CAVGR_092816         | 240-70227-G-2 | Plastic 500ml - w/ Nitric - Dis.   | <2                      | _____                               | _____        |
| MW-183WT_092816         | 240-70227-A-3 | Plastic 250ml - with Sodium Hydrox | >12                     | _____                               | _____        |
| MW-183WT_092816         | 240-70227-B-3 | Plastic 250ml - with Sodium Hydrox | >12                     | _____                               | _____        |
| MW-183WT_092816         | 240-70227-C-3 | Plastic 250ml - with Sodium Hydrox | >12                     | _____                               | _____        |
| MW-183WT_092816         | 240-70227-D-3 | Plastic 250ml - with Sodium Hydrox | >12                     | _____                               | _____        |
| MW-183WT_092816         | 240-70227-K-3 | Plastic 500ml - with Sulfuric Acid | <2                      | _____                               | _____        |
| MW-183WT_092816         | 240-70227-L-3 | Plastic 500ml - with Sulfuric Acid | <2                      | _____                               | _____        |
| MW-183WT_092816         | 240-70227-M-3 | Plastic 500ml - with Sulfuric Acid | <2                      | _____                               | _____        |
| MW-183WT_092816         | 240-70227-N-3 | Plastic 500ml - with Nitric Acid   | <2                      | _____                               | _____        |
| MW-183WT_092816         | 240-70227-O-3 | Plastic 500ml - with Nitric Acid   | <2                      | _____                               | _____        |
| MW-183WT_092816         | 240-70227-P-3 | Plastic 500ml - w/ Nitric - Dis.   | <2                      | _____                               | _____        |
| MW-183WT_092816         | 240-70227-Q-3 | Plastic 500ml - w/ Nitric - Dis.   | <2                      | _____                               | _____        |
| DUP-02_092816           | 240-70227-A-4 | Plastic 250ml - with Sodium Hydrox | >12                     | _____                               | _____        |
| DUP-02_092816           | 240-70227-D-4 | Plastic 500ml - with Sulfuric Acid | <2                      | _____                               | _____        |
| DUP-02_092816           | 240-70227-E-4 | Plastic 500ml - with Nitric Acid   | <2                      | _____                               | _____        |
| EB-01_092816            | 240-70227-A-5 | Plastic 500ml - with Nitric Acid   | <2                      | _____                               | _____        |



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-70258-1

Client Project/Site: RACER Saginaw Malleable Iron

For:

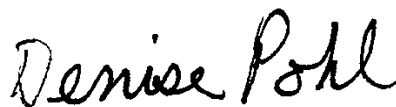
ARCADIS U.S. Inc

10559 Citation Drive

Suite 100

Brighton, Michigan 48116

Attn: Scott Clearwater



Authorized for release by:

10/25/2016 3:21:50 PM

Denise Pohl, Project Manager II

(330)966-9789

[denise.pohl@testamericainc.com](mailto:denise.pohl@testamericainc.com)

### LINKS

Review your project  
results through

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[www.testamericainc.com](http://www.testamericainc.com)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*



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## Definitions/Glossary

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70258-1

### Qualifiers

#### GC Semi VOA

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| U         | Indicates the analyte was analyzed for but not detected. |

#### Metals

| Qualifier | Qualifier Description                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------|
| ^         | ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits. |
| U         | Indicates the analyte was analyzed for but not detected.                                                       |

#### General Chemistry

| Qualifier | Qualifier Description                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------|
| B         | Compound was found in the blank and sample.                                                                    |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| U         | Indicates the analyte was analyzed for but not detected.                                                       |

### Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| α              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery                                                                                            |
| CFL            | Contains Free Liquid                                                                                        |
| CNF            | Contains no Free Liquid                                                                                     |
| DER            | Duplicate error ratio (normalized absolute difference)                                                      |
| Dil Fac        | Dilution Factor                                                                                             |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision level concentration                                                                                |
| MDA            | Minimum detectable activity                                                                                 |
| EDL            | Estimated Detection Limit                                                                                   |
| MDC            | Minimum detectable concentration                                                                            |
| MDL            | Method Detection Limit                                                                                      |
| ML             | Minimum Level (Dioxin)                                                                                      |
| NC             | Not Calculated                                                                                              |
| ND             | Not detected at the reporting limit (or MDL or EDL if shown)                                                |
| PQL            | Practical Quantitation Limit                                                                                |
| QC             | Quality Control                                                                                             |
| RER            | Relative error ratio                                                                                        |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)                                                         |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                         |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                       |

# Case Narrative

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70258-1

**Job ID: 240-70258-1**

**Laboratory: TestAmerica Canton**

## Narrative

### CASE NARRATIVE

**Client: ARCADIS U.S. Inc**

**Project: RACER Saginaw Malleable Iron**

**Report Number: 240-70258-1**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

### RECEIPT

The samples were received on 10/1/2016 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.6° C.

### DISSOLVED POLYCHLORINATED BIPHENYLS (PCBS)

Samples MW-110WTR\_092916-D (240-70258-3) and MW-111WT\_092916-D (240-70258-4) were analyzed for dissolved polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082. The samples were prepared on 10/06/2016 and analyzed on 10/08/2016.

All of the samples in this data set analyzed for PCBs were subjected to the sulfuric acid cleanup procedure before instrumental analysis, per EPA Method 3665A. All of the samples in this data set analyzed for PCBs were subjected to the sulfuric acid cleanup procedure before instrumental analysis, per EPA Method 3665A.

Method(s) 8082: The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: MW-110WTR\_092916-D (240-70258-3).

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2103098

2719938

# Case Narrative

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70258-1

## Job ID: 240-70258-1 (Continued)

### Laboratory: TestAmerica Canton (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### POLYCHLORINATED BIPHENYLS (PCBS)

Samples MW-110WTR\_092916 (240-70258-1) and MW-111WT\_092916 (240-70258-2) were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082. The samples were prepared on 10/04/2016 and analyzed on 10/06/2016 and 10/07/2016.

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are diluted out and no corrective action is required. All of the samples in this data set analyzed for PCBs were subjected to the sulfuric acid cleanup procedure before instrumental analysis, per EPA Method 3665A.

Sample MW-111WT\_092916 (240-70258-2)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Method(s) 8082: The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: MW-110WTR\_092916 (240-70258-1), (240-70278-H-1-A), (240-70278-I-1-A MS) and (240-70278-D-1-A MSD).

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Method(s) 8082: The following sample required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: MW-111WT\_092916 (240-70258-2).2729149

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Method(s) 8082: The following sample appears to contain polychlorinated biphenyls (PCBs); however, due to weathering or other environmental processes, the PCBs in the sample do not closely match any of the laboratory's Aroclor standards used for instrument calibration: MW-111WT\_092916 (240-70258-2). The sample has been quantified and reported as Aroclor 1248. Due to the poor match with the Aroclor standard(s), there is increased qualitative and quantitative uncertainty associated with this result.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### TOTAL RECOVERABLE METALS (ICPMS)

Samples MW-110WTR\_092916 (240-70258-1) and MW-111WT\_092916 (240-70258-2) were analyzed for total recoverable metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were prepared on 10/04/2016 and analyzed on 10/13/2016.

Method(s) 6020: Some requested practical quantitation limits (PQLs) on the following samples fall below the laboratory's verified standard quantitation limit: MW-110WTR\_092916 (240-70258-1) and MW-111WT\_092916 (240-70258-2). The continuing calibration blanks and method blanks may not support the lower PQL.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### TOTAL DISSOLVED SOLIDS

Sample MW-110WTR\_092916 (240-70258-1) was analyzed for total dissolved solids in accordance with SM 2540C. The samples were analyzed on 10/06/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### TOTAL PHOSPHORUS

Samples MW-110WTR\_092916 (240-70258-1) and MW-111WT\_092916 (240-70258-2) were analyzed for total phosphorus in accordance with SM 4500 P E. The samples were analyzed on 10/05/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### AMMONIA

Samples MW-110WTR\_092916 (240-70258-1) and MW-111WT\_092916 (240-70258-2) were analyzed for ammonia in accordance with

## Case Narrative

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70258-1

---

### Job ID: 240-70258-1 (Continued)

---

#### Laboratory: TestAmerica Canton (Continued)

SM 4500 NH3 D. The samples were analyzed on 10/12/2016 and 10/13/2016.

Ammonia (as N) was detected in method blank MB 240-251043/7 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

## Method Summary

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70258-1

| Method          | Method Description                                     | Protocol | Laboratory |
|-----------------|--------------------------------------------------------|----------|------------|
| 8082            | Polychlorinated Biphenyls (PCBs) by Gas Chromatography | SW846    | TAL CAN    |
| 6020            | Metals (ICP/MS)                                        | SW846    | TAL CAN    |
| SM 2540C        | Solids, Total Dissolved (TDS)                          | SM       | TAL CAN    |
| SM 4500 NH3 D   | Ammonia                                                | SM       | TAL CAN    |
| SM4500 P E-1999 | Phosphorus                                             | SM       | TAL CAN    |

### Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

### Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

## Sample Summary

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70258-1

| Lab Sample ID | Client Sample ID   | Matrix | Collected      | Received       |
|---------------|--------------------|--------|----------------|----------------|
| 240-70258-1   | MW-110WTR_092916   | Water  | 09/29/16 13:25 | 10/01/16 09:30 |
| 240-70258-2   | MW-111WT_092916    | Water  | 09/29/16 14:05 | 10/01/16 09:30 |
| 240-70258-3   | MW-110WTR_092916-D | Water  | 09/29/16 13:25 | 10/01/16 09:30 |
| 240-70258-4   | MW-111WT_092916-D  | Water  | 09/29/16 14:05 | 10/01/16 09:30 |



# Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70258-1

**Client Sample ID: MW-110WTR\_092916**

**Lab Sample ID: 240-70258-1**

**Date Collected: 09/29/16 13:25**

**Matrix: Water**

**Date Received: 10/01/16 09:30**

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte      | Result | Qualifier | RL    | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--------------|--------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Aroclor-1016 | 0.095  | U         | 0.095 | 0.048 | ug/L |   | 10/04/16 09:00 | 10/06/16 12:52 | 1       |
| Aroclor-1221 | 0.095  | U         | 0.095 | 0.086 | ug/L |   | 10/04/16 09:00 | 10/06/16 12:52 | 1       |
| Aroclor-1232 | 0.095  | U         | 0.095 | 0.067 | ug/L |   | 10/04/16 09:00 | 10/06/16 12:52 | 1       |
| Aroclor-1242 | 0.095  | U         | 0.095 | 0.057 | ug/L |   | 10/04/16 09:00 | 10/06/16 12:52 | 1       |
| Aroclor-1248 | 0.095  | U         | 0.095 | 0.048 | ug/L |   | 10/04/16 09:00 | 10/06/16 12:52 | 1       |
| Aroclor-1254 | 0.095  | U         | 0.095 | 0.029 | ug/L |   | 10/04/16 09:00 | 10/06/16 12:52 | 1       |
| Aroclor-1260 | 0.095  | U         | 0.095 | 0.038 | ug/L |   | 10/04/16 09:00 | 10/06/16 12:52 | 1       |

| Surrogate              | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|----------------|----------------|---------|
| Tetrachloro-m-xylene   | 48        |           | 21 - 120 | 10/04/16 09:00 | 10/06/16 12:52 | 1       |
| DCB Decachlorobiphenyl | 18        |           | 10 - 120 | 10/04/16 09:00 | 10/06/16 12:52 | 1       |

## Method: 6020 - Metals (ICP/MS) - Total Recoverable

| Analyte   | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Manganese | 3500   | ^         | 1.0 | 0.25 | ug/L |   | 10/04/16 14:00 | 10/13/16 01:52 | 1       |
| Thallium  | 1.0    | U         | 1.0 | 0.28 | ug/L |   | 10/04/16 14:00 | 10/13/16 01:52 | 1       |

## General Chemistry

| Analyte                | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Total Dissolved Solids | 1000   |           | 20   | 15    | mg/L |   |          | 10/06/16 16:49 | 1       |
| Ammonia (as N)         | 0.13   | J B       | 0.20 | 0.033 | mg/L |   |          | 10/12/16 10:57 | 1       |
| Total Phosphorus as P  | 0.27   |           | 0.10 | 0.049 | mg/L |   |          | 10/05/16 10:38 | 1       |

TestAmerica Canton

# Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70258-1

**Client Sample ID: MW-111WT\_092916**

**Lab Sample ID: 240-70258-2**

**Date Collected: 09/29/16 14:05**

**Matrix: Water**

**Date Received: 10/01/16 09:30**

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte             | Result      | Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-------------|-----------|------|-------|------|---|----------------|----------------|---------|
| Aroclor-1016        | 0.19        | U         | 0.19 | 0.095 | ug/L |   | 10/04/16 09:00 | 10/07/16 15:33 | 2       |
| Aroclor-1221        | 0.19        | U         | 0.19 | 0.17  | ug/L |   | 10/04/16 09:00 | 10/07/16 15:33 | 2       |
| Aroclor-1232        | 0.19        | U         | 0.19 | 0.13  | ug/L |   | 10/04/16 09:00 | 10/07/16 15:33 | 2       |
| Aroclor-1242        | 0.19        | U         | 0.19 | 0.11  | ug/L |   | 10/04/16 09:00 | 10/07/16 15:33 | 2       |
| <b>Aroclor-1248</b> | <b>0.21</b> |           | 0.19 | 0.095 | ug/L |   | 10/04/16 09:00 | 10/07/16 15:33 | 2       |
| Aroclor-1254        | 0.19        | U         | 0.19 | 0.057 | ug/L |   | 10/04/16 09:00 | 10/07/16 15:33 | 2       |
| Aroclor-1260        | 0.19        | U         | 0.19 | 0.076 | ug/L |   | 10/04/16 09:00 | 10/07/16 15:33 | 2       |

| Surrogate              | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|----------------|----------------|---------|
| Tetrachloro-m-xylene   | 49        |           | 21 - 120 | 10/04/16 09:00 | 10/07/16 15:33 | 2       |
| DCB Decachlorobiphenyl | 42        |           | 10 - 120 | 10/04/16 09:00 | 10/07/16 15:33 | 2       |

## Method: 6020 - Metals (ICP/MS) - Total Recoverable

| Analyte          | Result      | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------|-------------|-----------|-----|------|------|---|----------------|----------------|---------|
| <b>Manganese</b> | <b>1700</b> | <b>^</b>  | 1.0 | 0.25 | ug/L |   | 10/04/16 14:00 | 10/13/16 01:56 | 1       |
| Thallium         | 1.0         | U         | 1.0 | 0.28 | ug/L |   | 10/04/16 14:00 | 10/13/16 01:56 | 1       |

## General Chemistry

| Analyte                      | Result      | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-------------|-----------|------|-------|------|---|----------|----------------|---------|
| <b>Ammonia (as N)</b>        | <b>2.9</b>  |           | 0.20 | 0.033 | mg/L |   |          | 10/13/16 13:32 | 1       |
| <b>Total Phosphorus as P</b> | <b>0.48</b> |           | 0.10 | 0.049 | mg/L |   |          | 10/05/16 10:39 | 1       |

TestAmerica Canton

# Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70258-1

**Client Sample ID: MW-110WTR\_092916-D**

**Lab Sample ID: 240-70258-3**

**Date Collected: 09/29/16 13:25**

**Matrix: Water**

**Date Received: 10/01/16 09:30**

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - Dissolved

| Analyte      | Result | Qualifier | RL    | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--------------|--------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Aroclor-1016 | 0.095  | U         | 0.095 | 0.048 | ug/L |   | 10/06/16 13:30 | 10/08/16 12:11 | 1       |
| Aroclor-1221 | 0.095  | U         | 0.095 | 0.086 | ug/L |   | 10/06/16 13:30 | 10/08/16 12:11 | 1       |
| Aroclor-1232 | 0.095  | U         | 0.095 | 0.067 | ug/L |   | 10/06/16 13:30 | 10/08/16 12:11 | 1       |
| Aroclor-1242 | 0.095  | U         | 0.095 | 0.057 | ug/L |   | 10/06/16 13:30 | 10/08/16 12:11 | 1       |
| Aroclor-1248 | 0.095  | U         | 0.095 | 0.048 | ug/L |   | 10/06/16 13:30 | 10/08/16 12:11 | 1       |
| Aroclor-1254 | 0.095  | U         | 0.095 | 0.029 | ug/L |   | 10/06/16 13:30 | 10/08/16 12:11 | 1       |
| Aroclor-1260 | 0.095  | U         | 0.095 | 0.038 | ug/L |   | 10/06/16 13:30 | 10/08/16 12:11 | 1       |

| Surrogate              | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|----------------|----------------|---------|
| Tetrachloro-m-xylene   | 54        |           | 21 - 120 | 10/06/16 13:30 | 10/08/16 12:11 | 1       |
| DCB Decachlorobiphenyl | 38        |           | 10 - 120 | 10/06/16 13:30 | 10/08/16 12:11 | 1       |

# Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70258-1

**Client Sample ID: MW-111WT\_092916-D**

**Lab Sample ID: 240-70258-4**

**Date Collected: 09/29/16 14:05**

**Matrix: Water**

**Date Received: 10/01/16 09:30**

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - Dissolved

| Analyte      | Result | Qualifier | RL    | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--------------|--------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Aroclor-1016 | 0.095  | U         | 0.095 | 0.048 | ug/L |   | 10/06/16 13:30 | 10/08/16 12:28 | 1       |
| Aroclor-1221 | 0.095  | U         | 0.095 | 0.086 | ug/L |   | 10/06/16 13:30 | 10/08/16 12:28 | 1       |
| Aroclor-1232 | 0.095  | U         | 0.095 | 0.067 | ug/L |   | 10/06/16 13:30 | 10/08/16 12:28 | 1       |
| Aroclor-1242 | 0.095  | U         | 0.095 | 0.057 | ug/L |   | 10/06/16 13:30 | 10/08/16 12:28 | 1       |
| Aroclor-1248 | 0.095  | U         | 0.095 | 0.048 | ug/L |   | 10/06/16 13:30 | 10/08/16 12:28 | 1       |
| Aroclor-1254 | 0.095  | U         | 0.095 | 0.029 | ug/L |   | 10/06/16 13:30 | 10/08/16 12:28 | 1       |
| Aroclor-1260 | 0.095  | U         | 0.095 | 0.038 | ug/L |   | 10/06/16 13:30 | 10/08/16 12:28 | 1       |

| Surrogate              | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|----------------|----------------|---------|
| Tetrachloro-m-xylene   | 76        |           | 21 - 120 | 10/06/16 13:30 | 10/08/16 12:28 | 1       |
| DCB Decachlorobiphenyl | 58        |           | 10 - 120 | 10/06/16 13:30 | 10/08/16 12:28 | 1       |

## Surrogate Summary

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70258-1

### Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water

Prep Type: Total/NA

#### Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID       | Client Sample ID   | TCX2<br>(21-120) | DCB2<br>(10-120) |
|---------------------|--------------------|------------------|------------------|
| 240-70258-1         | MW-110WTR_092916   | 48               | 18               |
| 240-70258-2         | MW-111WT_092916    | 49               | 42               |
| LCS 240-249660/21-A | Lab Control Sample | 68               | 80               |
| LCS 240-250119/11-A | Lab Control Sample | 71               | 68               |
| MB 240-249660/20-A  | Method Blank       | 53               | 78               |
| MB 240-250119/10-A  | Method Blank       | 74               | 81               |

#### Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

### Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water

Prep Type: Dissolved

#### Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID | Client Sample ID   | TCX2<br>(21-120) | DCB2<br>(10-120) |
|---------------|--------------------|------------------|------------------|
| 240-70258-3   | MW-110WTR_092916-D | 54               | 38               |
| 240-70258-4   | MW-111WT_092916-D  | 76               | 58               |

#### Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

# QC Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70258-1

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-249660/20-A

Matrix: Water

Analysis Batch: 250052

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 249660

| Analyte      | MB Result | MB Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--------------|-----------|--------------|------|-------|------|---|----------------|----------------|---------|
| Aroclor-1016 | 0.10      | U            | 0.10 | 0.050 | ug/L |   | 10/04/16 09:00 | 10/06/16 07:57 | 1       |
| Aroclor-1221 | 0.10      | U            | 0.10 | 0.090 | ug/L |   | 10/04/16 09:00 | 10/06/16 07:57 | 1       |
| Aroclor-1232 | 0.10      | U            | 0.10 | 0.070 | ug/L |   | 10/04/16 09:00 | 10/06/16 07:57 | 1       |
| Aroclor-1242 | 0.10      | U            | 0.10 | 0.060 | ug/L |   | 10/04/16 09:00 | 10/06/16 07:57 | 1       |
| Aroclor-1248 | 0.10      | U            | 0.10 | 0.050 | ug/L |   | 10/04/16 09:00 | 10/06/16 07:57 | 1       |
| Aroclor-1254 | 0.10      | U            | 0.10 | 0.030 | ug/L |   | 10/04/16 09:00 | 10/06/16 07:57 | 1       |
| Aroclor-1260 | 0.10      | U            | 0.10 | 0.040 | ug/L |   | 10/04/16 09:00 | 10/06/16 07:57 | 1       |

| Surrogate              | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------------|--------------|----------|----------------|----------------|---------|
| Tetrachloro-m-xylene   | 53           |              | 21 - 120 | 10/04/16 09:00 | 10/06/16 07:57 | 1       |
| DCB Decachlorobiphenyl | 78           |              | 10 - 120 | 10/04/16 09:00 | 10/06/16 07:57 | 1       |

Lab Sample ID: LCS 240-249660/21-A

Matrix: Water

Analysis Batch: 250052

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 249660

| Analyte      | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits   |
|--------------|-------------|------------|---------------|------|---|------|----------|
| Aroclor-1016 | 2.50        | 1.76       |               | ug/L |   | 70   | 32 - 120 |
| Aroclor-1260 | 2.50        | 2.19       |               | ug/L |   | 87   | 36 - 120 |

| Surrogate              | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------|---------------|---------------|----------|
| Tetrachloro-m-xylene   | 68            |               | 21 - 120 |
| DCB Decachlorobiphenyl | 80            |               | 10 - 120 |

Lab Sample ID: MB 240-250119/10-A

Matrix: Water

Analysis Batch: 250441

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 250119

| Analyte      | MB Result | MB Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--------------|-----------|--------------|------|-------|------|---|----------------|----------------|---------|
| Aroclor-1016 | 0.10      | U            | 0.10 | 0.050 | ug/L |   | 10/06/16 09:38 | 10/08/16 13:53 | 1       |
| Aroclor-1221 | 0.10      | U            | 0.10 | 0.090 | ug/L |   | 10/06/16 09:38 | 10/08/16 13:53 | 1       |
| Aroclor-1232 | 0.10      | U            | 0.10 | 0.070 | ug/L |   | 10/06/16 09:38 | 10/08/16 13:53 | 1       |
| Aroclor-1242 | 0.10      | U            | 0.10 | 0.060 | ug/L |   | 10/06/16 09:38 | 10/08/16 13:53 | 1       |
| Aroclor-1248 | 0.10      | U            | 0.10 | 0.050 | ug/L |   | 10/06/16 09:38 | 10/08/16 13:53 | 1       |
| Aroclor-1254 | 0.10      | U            | 0.10 | 0.030 | ug/L |   | 10/06/16 09:38 | 10/08/16 13:53 | 1       |
| Aroclor-1260 | 0.10      | U            | 0.10 | 0.040 | ug/L |   | 10/06/16 09:38 | 10/08/16 13:53 | 1       |

| Surrogate              | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------------|--------------|----------|----------------|----------------|---------|
| Tetrachloro-m-xylene   | 74           |              | 21 - 120 | 10/06/16 09:38 | 10/08/16 13:53 | 1       |
| DCB Decachlorobiphenyl | 81           |              | 10 - 120 | 10/06/16 09:38 | 10/08/16 13:53 | 1       |

Lab Sample ID: LCS 240-250119/11-A

Matrix: Water

Analysis Batch: 250441

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 250119

| Analyte      | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits   |
|--------------|-------------|------------|---------------|------|---|------|----------|
| Aroclor-1016 | 2.50        | 1.93       |               | ug/L |   | 77   | 32 - 120 |

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# QC Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70258-1

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 240-250119/11-A

Matrix: Water

Analysis Batch: 250441

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 250119

| Analyte                | Spike Added   | LCS Result    | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------|---------------|---------------|---------------|------|---|------|--------------|
| Aroclor-1260           | 2.50          | 1.85          |               | ug/L |   | 74   | 36 - 120     |
| Surrogate              | LCS %Recovery | LCS Qualifier | Limits        |      |   |      |              |
| Tetrachloro-m-xylene   | 71            |               | 21 - 120      |      |   |      |              |
| DCB Decachlorobiphenyl | 68            |               | 10 - 120      |      |   |      |              |

## Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 240-249703/1-A

Matrix: Water

Analysis Batch: 251370

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 249703

| Analyte   | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|-----------|--------------|-----|------|------|---|----------------|----------------|---------|
| Manganese | 1.0       | U            | 1.0 | 0.25 | ug/L |   | 10/04/16 14:00 | 10/13/16 15:47 | 1       |
| Thallium  | 1.0       | U            | 1.0 | 0.28 | ug/L |   | 10/04/16 14:00 | 10/13/16 15:47 | 1       |

Lab Sample ID: LCS 240-249703/2-A

Matrix: Water

Analysis Batch: 251370

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 249703

| Analyte   | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------|-------------|------------|---------------|------|---|------|--------------|
| Manganese | 1000        | 1040       |               | ug/L |   | 104  | 80 - 120     |
| Thallium  | 250         | 263        |               | ug/L |   | 105  | 80 - 120     |

## Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 240-250243/1

Matrix: Water

Analysis Batch: 250243

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|-----------|--------------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 10        | U            | 10 | 7.4 | mg/L |   |          | 10/06/16 16:49 | 1       |

Lab Sample ID: LCS 240-250243/2

Matrix: Water

Analysis Batch: 250243

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------|-------------|------------|---------------|------|---|------|--------------|
| Total Dissolved Solids | 216         | 218        |               | mg/L |   | 101  | 80 - 120     |

## Method: SM 4500 NH3 D - Ammonia

Lab Sample ID: MB 240-251043/7

Matrix: Water

Analysis Batch: 251043

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte        | MB Result | MB Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| Ammonia (as N) | 0.112     | J            | 0.20 | 0.033 | mg/L |   |          | 10/12/16 07:33 | 1       |

TestAmerica Canton



# QC Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70258-1

## Method: SM 4500 NH3 D - Ammonia (Continued)

Lab Sample ID: LCS 240-251043/8

Matrix: Water

Analysis Batch: 251043

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte        | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------|-------------|------------|---------------|------|---|------|--------------|
| Ammonia (as N) | 3.84        | 3.46       |               | mg/L |   | 90   | 85 - 114     |

Lab Sample ID: MB 240-251320/7

Matrix: Water

Analysis Batch: 251320

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte        | MB Result | MB Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| Ammonia (as N) | 0.20      | U            | 0.20 | 0.033 | mg/L |   |          | 10/13/16 12:34 | 1       |

Lab Sample ID: LCS 240-251320/8

Matrix: Water

Analysis Batch: 251320

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte        | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------|-------------|------------|---------------|------|---|------|--------------|
| Ammonia (as N) | 3.84        | 3.76       |               | mg/L |   | 98   | 85 - 114     |

## Method: SM4500 P E-1999 - Phosphorus

Lab Sample ID: MB 240-249902/3

Matrix: Water

Analysis Batch: 249902

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte               | MB Result | MB Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| Total Phosphorus as P | 0.10      | U            | 0.10 | 0.049 | mg/L |   |          | 10/05/16 10:02 | 1       |

Lab Sample ID: LCS 240-249902/4

Matrix: Water

Analysis Batch: 249902

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte               | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------|-------------|------------|---------------|------|---|------|--------------|
| Total Phosphorus as P | 0.665       | 0.726      |               | mg/L |   | 109  | 77 - 120     |

TestAmerica Canton

# QC Association Summary

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70258-1

## GC Semi VOA

### Prep Batch: 249660

| Lab Sample ID       | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|---------------------|--------------------|-----------|--------|--------|------------|
| 240-70258-1         | MW-110WTR_092916   | Total/NA  | Water  | 3520C  |            |
| 240-70258-2         | MW-111WT_092916    | Total/NA  | Water  | 3520C  |            |
| MB 240-249660/20-A  | Method Blank       | Total/NA  | Water  | 3520C  |            |
| LCS 240-249660/21-A | Lab Control Sample | Total/NA  | Water  | 3520C  |            |

### Analysis Batch: 250052

| Lab Sample ID       | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|---------------------|--------------------|-----------|--------|--------|------------|
| 240-70258-1         | MW-110WTR_092916   | Total/NA  | Water  | 8082   | 249660     |
| MB 240-249660/20-A  | Method Blank       | Total/NA  | Water  | 8082   | 249660     |
| LCS 240-249660/21-A | Lab Control Sample | Total/NA  | Water  | 8082   | 249660     |

### Prep Batch: 250119

| Lab Sample ID       | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|---------------------|--------------------|-----------|--------|--------|------------|
| 240-70258-3         | MW-110WTR_092916-D | Dissolved | Water  | 3520C  |            |
| 240-70258-4         | MW-111WT_092916-D  | Dissolved | Water  | 3520C  |            |
| MB 240-250119/10-A  | Method Blank       | Total/NA  | Water  | 3520C  |            |
| LCS 240-250119/11-A | Lab Control Sample | Total/NA  | Water  | 3520C  |            |

### Analysis Batch: 250260

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 240-70258-2   | MW-111WT_092916  | Total/NA  | Water  | 8082   | 249660     |

### Analysis Batch: 250441

| Lab Sample ID       | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|---------------------|--------------------|-----------|--------|--------|------------|
| 240-70258-3         | MW-110WTR_092916-D | Dissolved | Water  | 8082   | 250119     |
| 240-70258-4         | MW-111WT_092916-D  | Dissolved | Water  | 8082   | 250119     |
| MB 240-250119/10-A  | Method Blank       | Total/NA  | Water  | 8082   | 250119     |
| LCS 240-250119/11-A | Lab Control Sample | Total/NA  | Water  | 8082   | 250119     |

## Metals

### Prep Batch: 249703

| Lab Sample ID      | Client Sample ID   | Prep Type         | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 240-70258-1        | MW-110WTR_092916   | Total Recoverable | Water  | 3005A  |            |
| 240-70258-2        | MW-111WT_092916    | Total Recoverable | Water  | 3005A  |            |
| MB 240-249703/1-A  | Method Blank       | Total Recoverable | Water  | 3005A  |            |
| LCS 240-249703/2-A | Lab Control Sample | Total Recoverable | Water  | 3005A  |            |

### Analysis Batch: 251153

| Lab Sample ID | Client Sample ID | Prep Type         | Matrix | Method | Prep Batch |
|---------------|------------------|-------------------|--------|--------|------------|
| 240-70258-1   | MW-110WTR_092916 | Total Recoverable | Water  | 6020   | 249703     |
| 240-70258-2   | MW-111WT_092916  | Total Recoverable | Water  | 6020   | 249703     |

### Analysis Batch: 251370

| Lab Sample ID      | Client Sample ID   | Prep Type         | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| MB 240-249703/1-A  | Method Blank       | Total Recoverable | Water  | 6020   | 249703     |
| LCS 240-249703/2-A | Lab Control Sample | Total Recoverable | Water  | 6020   | 249703     |

TestAmerica Canton

## QC Association Summary

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70258-1

### General Chemistry

#### Analysis Batch: 249902

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method             | Prep Batch |
|------------------|--------------------|-----------|--------|--------------------|------------|
| 240-70258-1      | MW-110WTR_092916   | Total/NA  | Water  | SM4500 P<br>E-1999 |            |
| 240-70258-2      | MW-111WT_092916    | Total/NA  | Water  | SM4500 P<br>E-1999 |            |
| MB 240-249902/3  | Method Blank       | Total/NA  | Water  | SM4500 P<br>E-1999 |            |
| LCS 240-249902/4 | Lab Control Sample | Total/NA  | Water  | SM4500 P<br>E-1999 |            |

#### Analysis Batch: 250243

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method   | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 240-70258-1      | MW-110WTR_092916   | Total/NA  | Water  | SM 2540C |            |
| MB 240-250243/1  | Method Blank       | Total/NA  | Water  | SM 2540C |            |
| LCS 240-250243/2 | Lab Control Sample | Total/NA  | Water  | SM 2540C |            |

#### Analysis Batch: 251043

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method        | Prep Batch |
|------------------|--------------------|-----------|--------|---------------|------------|
| 240-70258-1      | MW-110WTR_092916   | Total/NA  | Water  | SM 4500 NH3 D |            |
| MB 240-251043/7  | Method Blank       | Total/NA  | Water  | SM 4500 NH3 D |            |
| LCS 240-251043/8 | Lab Control Sample | Total/NA  | Water  | SM 4500 NH3 D |            |

#### Analysis Batch: 251320

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method        | Prep Batch |
|------------------|--------------------|-----------|--------|---------------|------------|
| 240-70258-2      | MW-111WT_092916    | Total/NA  | Water  | SM 4500 NH3 D |            |
| MB 240-251320/7  | Method Blank       | Total/NA  | Water  | SM 4500 NH3 D |            |
| LCS 240-251320/8 | Lab Control Sample | Total/NA  | Water  | SM 4500 NH3 D |            |

# Lab Chronicle

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70258-1

**Client Sample ID: MW-110WTR\_092916**

**Date Collected: 09/29/16 13:25**

**Date Received: 10/01/16 09:30**

**Lab Sample ID: 240-70258-1**

**Matrix: Water**

| Prep Type         | Batch Type | Batch Method    | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA          | Prep       | 3520C           |     |                 | 249660       | 10/04/16 09:00       | JDR     | TAL CAN |
| Total/NA          | Analysis   | 8082            |     | 1               | 250052       | 10/06/16 12:52       | CSC     | TAL CAN |
| Total Recoverable | Prep       | 3005A           |     |                 | 249703       | 10/04/16 14:00       | AJC     | TAL CAN |
| Total Recoverable | Analysis   | 6020            |     | 1               | 251153       | 10/13/16 01:52       | AS1     | TAL CAN |
| Total/NA          | Analysis   | SM 2540C        |     | 1               | 250243       | 10/06/16 16:49       | JW      | TAL CAN |
| Total/NA          | Analysis   | SM 4500 NH3 D   |     | 1               | 251043       | 10/12/16 10:57       | JAS     | TAL CAN |
| Total/NA          | Analysis   | SM4500 P E-1999 |     | 1               | 249902       | 10/05/16 10:38       | TPH     | TAL CAN |

**Client Sample ID: MW-111WT\_092916**

**Date Collected: 09/29/16 14:05**

**Date Received: 10/01/16 09:30**

**Lab Sample ID: 240-70258-2**

**Matrix: Water**

| Prep Type         | Batch Type | Batch Method    | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA          | Prep       | 3520C           |     |                 | 249660       | 10/04/16 09:00       | JDR     | TAL CAN |
| Total/NA          | Analysis   | 8082            |     | 2               | 250260       | 10/07/16 15:33       | LSH     | TAL CAN |
| Total Recoverable | Prep       | 3005A           |     |                 | 249703       | 10/04/16 14:00       | AJC     | TAL CAN |
| Total Recoverable | Analysis   | 6020            |     | 1               | 251153       | 10/13/16 01:56       | AS1     | TAL CAN |
| Total/NA          | Analysis   | SM 4500 NH3 D   |     | 1               | 251320       | 10/13/16 13:32       | JMB     | TAL CAN |
| Total/NA          | Analysis   | SM4500 P E-1999 |     | 1               | 249902       | 10/05/16 10:39       | TPH     | TAL CAN |

**Client Sample ID: MW-110WTR\_092916-D**

**Date Collected: 09/29/16 13:25**

**Date Received: 10/01/16 09:30**

**Lab Sample ID: 240-70258-3**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Dissolved | Prep       | 3520C        |     |                 | 250119       | 10/06/16 13:30       | JDR     | TAL CAN |
| Dissolved | Analysis   | 8082         |     | 1               | 250441       | 10/08/16 12:11       | CSC     | TAL CAN |

**Client Sample ID: MW-111WT\_092916-D**

**Date Collected: 09/29/16 14:05**

**Date Received: 10/01/16 09:30**

**Lab Sample ID: 240-70258-4**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Dissolved | Prep       | 3520C        |     |                 | 250119       | 10/06/16 13:30       | JDR     | TAL CAN |
| Dissolved | Analysis   | 8082         |     | 1               | 250441       | 10/08/16 12:28       | CSC     | TAL CAN |

## Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TestAmerica Canton

# Certification Summary

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70258-1

## Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority             | Program       | EPA Region | Certification ID | Expiration Date |
|-----------------------|---------------|------------|------------------|-----------------|
| California            | NELAP         | 9          | 01144CA          | 06-30-14 *      |
| California            | State Program | 9          | 2927             | 04-30-17        |
| Connecticut           | State Program | 1          | PH-0590          | 12-31-17        |
| Florida               | NELAP         | 4          | E87225           | 06-30-17        |
| Illinois              | NELAP         | 5          | 200004           | 07-31-17        |
| Kansas                | NELAP         | 7          | E-10336          | 01-31-17        |
| Kentucky (UST)        | State Program | 4          | 58               | 02-23-17        |
| Kentucky (VW)         | State Program | 4          | 98016            | 12-31-16 *      |
| Minnesota             | NELAP         | 5          | 039-999-348      | 12-31-16 *      |
| Minnesota (Petrofund) | State Program | 1          | 3506             | 07-31-17        |
| Nevada                | State Program | 9          | OH-000482008A    | 07-31-17        |
| New Jersey            | NELAP         | 2          | OH001            | 06-30-17        |
| New York              | NELAP         | 2          | 10975            | 03-31-17        |
| Ohio VAP              | State Program | 5          | CL0024           | 09-14-17        |
| Oregon                | NELAP         | 10         | 4062             | 02-23-17        |
| Pennsylvania          | NELAP         | 3          | 68-00340         | 08-31-17        |
| Texas                 | NELAP         | 6          | T104704517-15-5  | 08-31-17        |
| USDA                  | Federal       |            | P330-13-00319    | 11-26-16 *      |
| Virginia              | NELAP         | 3          | 460175           | 09-14-17        |
| Washington            | State Program | 10         | C971             | 01-12-17        |
| West Virginia DEP     | State Program | 3          | 210              | 12-31-16 *      |
| Wisconsin             | State Program | 5          | 999518190        | 08-31-17        |

\* Certification renewal pending - certification considered valid.

TestAmerica Canton

[illegible]

| TestAmerica Canton Sample Receipt Form/Narrative<br>Canton Facility                                                                                                                   |                           |                                   |  | Login # : <u>70258</u> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-----------------------------------|--|------------------------|
| Client <u>Accadis</u>                                                                                                                                                                 | Site Name _____           | Cooler unpacked by:<br><u>DSD</u> |  |                        |
| Cooler Received on <u>10/01/16</u>                                                                                                                                                    | Opened on <u>10/01/16</u> |                                   |  |                        |
| FedEx: 1 <sup>st</sup> Grd <u>Exp</u> UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____                                                                                 |                           |                                   |  |                        |
| Receipt After-hours: Drop-off Date/Time _____                                                                                                                                         |                           | Storage Location _____            |  |                        |
| TestAmerica Cooler # _____ Foam Box <input checked="" type="checkbox"/> Client Cooler <input checked="" type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> |                           |                                   |  |                        |
| Packing material used: Bubble Wrap <input checked="" type="checkbox"/> Foam <input type="checkbox"/> Plastic Bag <input type="checkbox"/> None <input type="checkbox"/> Other _____   |                           |                                   |  |                        |
| COOLANT: Wet Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> Water <input type="checkbox"/> None <input type="checkbox"/>  |                           |                                   |  |                        |
| 1. Cooler temperature upon receipt <input type="checkbox"/> See Multiple Cooler Form                                                                                                  |                           |                                   |  |                        |
| IR GUN# IR-8 (CF +0.4 °C) Observed Cooler Temp. <u>0.2</u> °C Corrected Cooler Temp. <u>0.6</u> °C                                                                                    |                           |                                   |  |                        |
| IR GUN #36 (CF +1.3 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C                                                                                                |                           |                                   |  |                        |
| 2. Were custody seals on the outside of the cooler(s)? If Yes Quantity <u>1</u> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>                                   |                           |                                   |  |                        |
| -Were custody seals on the outside of the cooler(s) signed & dated? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>                   |                           |                                   |  |                        |
| -Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                  |                           |                                   |  |                        |
| 3. Shippers' packing slip attached to the cooler(s)? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>                                                              |                           |                                   |  |                        |
| 4. Did custody papers accompany the sample(s)? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>                                                                    |                           |                                   |  |                        |
| 5. Were the custody papers relinquished & signed in the appropriate place? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>                                        |                           |                                   |  |                        |
| 6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>                                |                           |                                   |  |                        |
| 7. Did all bottles arrive in good condition (Unbroken)? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>                                                           |                           |                                   |  |                        |
| 8. Could all bottle labels be reconciled with the COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>                                                            |                           |                                   |  |                        |
| 9. Were correct bottle(s) used for the test(s) indicated? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>                                                         |                           |                                   |  |                        |
| 10. Sufficient quantity received to perform indicated analyses? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>                                                   |                           |                                   |  |                        |
| 11. Are these work share samples? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>                                                                                 |                           |                                   |  |                        |
| If yes, Questions 11-15 have been checked at the originating laboratory.                                                                                                              |                           |                                   |  |                        |
| 11. Were sample(s) at the correct pH upon receipt? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> pH Strip Lot# <u>HC574756</u>      |                           |                                   |  |                        |
| 12. Were VOAs on the COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>                                                                                         |                           |                                   |  |                        |
| 13. Were air bubbles >6 mm in any VOA vials? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                      |                           |                                   |  |                        |
| 14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>                                         |                           |                                   |  |                        |
| 15. Was a LL Hg or Me Hg trip blank present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>                                                                      |                           |                                   |  |                        |
| Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____                                                                                                              |                           |                                   |  |                        |
| Concerning _____                                                                                                                                                                      |                           |                                   |  |                        |

|                                                                                                                                                                                                                                                  |                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| <b>14. CHAIN OF CUSTODY &amp; SAMPLE DISCREPANCIES</b><br><br><br><br><br><br><br><br><br><br>                                                                                                                                                   | Samples processed by: |
| <b>15. SAMPLE CONDITION</b><br>Sample(s) _____ were received after the recommended holding time had expired.<br>Sample(s) _____ were received in a broken container.<br>Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM) |                       |
| <b>16. SAMPLE PRESERVATION</b><br><br>Sample(s) _____ were further preserved in the laboratory.<br>Time preserved: _____ Preservative(s) added/Lot number(s): _____                                                                              |                       |



Temperature readings: \_\_\_\_\_

| <u>Client Sample ID</u> | <u>Lab ID</u> | <u>Container Type</u>              | <u>Container</u><br><u>pH</u> | <u>Preservative</u><br><u>Added (mls)</u> | <u>Lot #</u> |
|-------------------------|---------------|------------------------------------|-------------------------------|-------------------------------------------|--------------|
| MW-110WTR_092916        | 240-70258-B-1 | Plastic 500ml - with Sulfuric Acid | <2                            | _____                                     | _____        |
| MW-110WTR_092916        | 240-70258-C-1 | Plastic 500ml - with Sulfuric Acid | <2                            | _____                                     | _____        |
| MW-110WTR_092916        | 240-70258-D-1 | Plastic 500ml - with Nitric Acid   | <2                            | _____                                     | _____        |
| MW-111WT_092916         | 240-70258-A-2 | Plastic 500ml - with Sulfuric Acid | <2                            | _____                                     | _____        |
| MW-111WT_092916         | 240-70258-B-2 | Plastic 500ml - with Sulfuric Acid | <2                            | _____                                     | _____        |
| MW-111WT_092916         | 240-70258-C-2 | Plastic 500ml - with Nitric Acid   | <2                            | _____                                     | _____        |

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-70259-1

Client Project/Site: RACER Saginaw Malleable Iron

For:

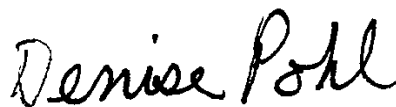
ARCADIS U.S. Inc

10559 Citation Drive

Suite 100

Brighton, Michigan 48116

Attn: Scott Clearwater



Authorized for release by:

10/25/2016 3:25:48 PM

Denise Pohl, Project Manager II

(330)966-9789

[denise.pohl@testamericainc.com](mailto:denise.pohl@testamericainc.com)

### LINKS

Review your project  
results through

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Have a Question?



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[www.testamericainc.com](http://www.testamericainc.com)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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## Definitions/Glossary

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70259-1

### Qualifiers

#### GC/MS Semi VOA

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| U         | Indicates the analyte was analyzed for but not detected. |

#### Metals

| Qualifier | Qualifier Description                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------|
| U         | Indicates the analyte was analyzed for but not detected.                                                       |
| ^         | ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits. |

#### General Chemistry

| Qualifier | Qualifier Description                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------|
| U         | Indicates the analyte was analyzed for but not detected.                                                       |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

### Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| α              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery                                                                                            |
| CFL            | Contains Free Liquid                                                                                        |
| CNF            | Contains no Free Liquid                                                                                     |
| DER            | Duplicate error ratio (normalized absolute difference)                                                      |
| Dil Fac        | Dilution Factor                                                                                             |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision level concentration                                                                                |
| MDA            | Minimum detectable activity                                                                                 |
| EDL            | Estimated Detection Limit                                                                                   |
| MDC            | Minimum detectable concentration                                                                            |
| MDL            | Method Detection Limit                                                                                      |
| ML             | Minimum Level (Dioxin)                                                                                      |
| NC             | Not Calculated                                                                                              |
| ND             | Not detected at the reporting limit (or MDL or EDL if shown)                                                |
| PQL            | Practical Quantitation Limit                                                                                |
| QC             | Quality Control                                                                                             |
| RER            | Relative error ratio                                                                                        |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)                                                         |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                         |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                       |

# Case Narrative

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70259-1

**Job ID: 240-70259-1**

**Laboratory: TestAmerica Canton**

## Narrative

### CASE NARRATIVE

**Client: ARCADIS U.S. Inc**

**Project: RACER Saginaw Malleable Iron**

**Report Number: 240-70259-1**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

#### **RECEIPT**

The samples were received on 10/1/2016 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.6° C.

#### **SEMIVOLATILE ORGANIC COMPOUNDS (GCMS)**

Sample MW-108WT\_092916 (240-70259-5) was analyzed for semivolatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 10/06/2016 and analyzed on 10/09/2016.

Surrogates are added during the extraction process prior to dilution. When the sample is diluted, surrogate recoveries are diluted out and no corrective action is required.

Method(s) 3510C, 625: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 240-250174.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### **TOTAL RECOVERABLE METALS (ICPMS)**

Samples MW-149WT\_092916 (240-70259-1), DUP-03\_092916 (240-70259-2), MW-107WT\_092916 (240-70259-3) and

## Case Narrative

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70259-1

### Job ID: 240-70259-1 (Continued)

#### Laboratory: TestAmerica Canton (Continued)

MW-108WT\_092916 (240-70259-5) were analyzed for total recoverable metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were prepared on 10/04/2016 and analyzed on 10/13/2016.

Method(s) 6020: Some requested practical quantitation limits (PQLs) on the following samples fall below the laboratory's verified standard quantitation limit: MW-149WT\_092916 (240-70259-1), DUP-03\_092916 (240-70259-2), MW-107WT\_092916 (240-70259-3) and MW-108WT\_092916 (240-70259-5). The continuing calibration blanks and method blanks may not support the lower PQL.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### TOTAL PHOSPHORUS

Samples MW-149WT\_092916 (240-70259-1), DUP-03\_092916 (240-70259-2), MW-107WT\_092916 (240-70259-3) and MW-108WT\_092916 (240-70259-5) were analyzed for total phosphorus in accordance with SM 4500 P E. The samples were analyzed on 10/05/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### AMMONIA

Samples MW-149WT\_092916 (240-70259-1), MW-107WT\_092916 (240-70259-3), MW-107S1\_092916 (240-70259-4), MW-108WT\_092916 (240-70259-5) and MW-108S2\_092916 (240-70259-6) were analyzed for ammonia in accordance with SM 4500 NH3 D. The samples were analyzed on 10/13/2016.

Sample MW-108S2\_092916 (240-70259-6)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

## Method Summary

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70259-1

| Method          | Method Description                     | Protocol | Laboratory |
|-----------------|----------------------------------------|----------|------------|
| 8270C           | Semivolatile Organic Compounds (GC/MS) | SW846    | TAL CAN    |
| 6020            | Metals (ICP/MS)                        | SW846    | TAL CAN    |
| SM 4500 NH3 D   | Ammonia                                | SM       | TAL CAN    |
| SM4500 P E-1999 | Phosphorus                             | SM       | TAL CAN    |

### Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater",  
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

### Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396



# Sample Summary

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70259-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 240-70259-1   | MW-149WT_092916  | Water  | 09/29/16 07:55 | 10/01/16 09:30 |
| 240-70259-2   | DUP-03_092916    | Water  | 09/29/16 00:00 | 10/01/16 09:30 |
| 240-70259-3   | MW-107WT_092916  | Water  | 09/29/16 08:40 | 10/01/16 09:30 |
| 240-70259-4   | MW-107S1_092916  | Water  | 09/29/16 10:15 | 10/01/16 09:30 |
| 240-70259-5   | MW-108WT_092916  | Water  | 09/29/16 11:10 | 10/01/16 09:30 |
| 240-70259-6   | MW-108S2_092916  | Water  | 09/29/16 11:45 | 10/01/16 09:30 |

# Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70259-1

**Client Sample ID: MW-149WT\_092916**

**Lab Sample ID: 240-70259-1**

**Date Collected: 09/29/16 07:55**

**Matrix: Water**

**Date Received: 10/01/16 09:30**

## Method: 6020 - Metals (ICP/MS) - Total Recoverable

| Analyte  | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Arsenic  | 50     |           | 2.0 | 0.35 | ug/L |   | 10/04/16 14:00 | 10/13/16 15:56 | 1       |
| Thallium | 1.0    | U         | 1.0 | 0.28 | ug/L |   | 10/04/16 14:00 | 10/13/16 00:41 | 1       |

## General Chemistry

| Analyte               | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Ammonia (as N)        | 1.2    |           | 0.20 | 0.033 | mg/L |   |          | 10/13/16 13:46 | 1       |
| Total Phosphorus as P | 0.62   |           | 0.10 | 0.049 | mg/L |   |          | 10/05/16 10:25 | 1       |

# Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70259-1

**Client Sample ID: DUP-03\_092916**

**Lab Sample ID: 240-70259-2**

**Date Collected: 09/29/16 00:00**

**Matrix: Water**

**Date Received: 10/01/16 09:30**

## Method: 6020 - Metals (ICP/MS) - Total Recoverable

| Analyte  | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Arsenic  | 52     |           | 2.0 | 0.35 | ug/L |   | 10/04/16 14:00 | 10/13/16 16:55 | 1       |
| Thallium | 1.0    | U         | 1.0 | 0.28 | ug/L |   | 10/04/16 14:00 | 10/13/16 02:01 | 1       |

## General Chemistry

| Analyte               | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Total Phosphorus as P | 0.70   |           | 0.10 | 0.049 | mg/L |   |          | 10/05/16 10:29 | 1       |

# Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70259-1

**Client Sample ID: MW-107WT\_092916**

**Lab Sample ID: 240-70259-3**

**Date Collected: 09/29/16 08:40**

**Matrix: Water**

**Date Received: 10/01/16 09:30**

## Method: 6020 - Metals (ICP/MS) - Total Recoverable

| Analyte   | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Arsenic   | 6.5    |           | 2.0 | 0.35 | ug/L |   | 10/04/16 14:00 | 10/13/16 16:59 | 1       |
| Manganese | 2000   | ^         | 1.0 | 0.25 | ug/L |   | 10/04/16 14:00 | 10/13/16 02:05 | 1       |
| Thallium  | 1.0    | U         | 1.0 | 0.28 | ug/L |   | 10/04/16 14:00 | 10/13/16 02:05 | 1       |

## General Chemistry

| Analyte               | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Ammonia (as N)        | 1.4    |           | 0.20 | 0.033 | mg/L |   |          | 10/13/16 14:13 | 1       |
| Total Phosphorus as P | 0.10   | U         | 0.10 | 0.049 | mg/L |   |          | 10/05/16 10:31 | 1       |

TestAmerica Canton

## Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70259-1

**Client Sample ID: MW-107S1\_092916**

**Lab Sample ID: 240-70259-4**

**Date Collected: 09/29/16 10:15**

**Matrix: Water**

**Date Received: 10/01/16 09:30**

### General Chemistry

| Analyte        | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Ammonia (as N) | 1.5    |           | 0.20 | 0.033 | mg/L | - |          | 10/13/16 14:24 | 1       |

# Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70259-1

**Client Sample ID: MW-108WT\_092916**

**Lab Sample ID: 240-70259-5**

**Date Collected: 09/29/16 11:10**

**Matrix: Water**

**Date Received: 10/01/16 09:30**

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

| Analyte                     | Result | Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Acenaphthene                | 0.19   | U         | 0.19 | 0.042 | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| Acenaphthylene              | 0.19   | U         | 0.19 | 0.046 | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| Acetophenone                | 0.95   | U         | 0.95 | 0.32  | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| Anthracene                  | 0.19   | U         | 0.19 | 0.084 | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| Atrazine                    | 0.95   | U         | 0.95 | 0.32  | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| Benzaldehyde                | 0.95   | U         | 0.95 | 0.37  | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| Benzo[a]anthracene          | 0.19   | U         | 0.19 | 0.028 | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| Benzo[a]pyrene              | 0.19   | U         | 0.19 | 0.049 | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| Benzo[b]fluoranthene        | 0.19   | U         | 0.19 | 0.038 | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| Benzo[g,h,i]perylene        | 0.19   | U         | 0.19 | 0.044 | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| Benzo[k]fluoranthene        | 0.19   | U         | 0.19 | 0.043 | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| 1,1'-Biphenyl               | 0.95   | U         | 0.95 | 0.12  | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| Bis(2-chloroethoxy)methane  | 0.95   | U         | 0.95 | 0.30  | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| Bis(2-chloroethyl)ether     | 0.95   | U         | 0.95 | 0.095 | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| Bis(2-ethylhexyl) phthalate | 1.9    | U         | 1.9  | 1.6   | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| 4-Bromophenyl phenyl ether  | 1.9    | U         | 1.9  | 0.21  | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| Butyl benzyl phthalate      | 0.95   | U         | 0.95 | 0.25  | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| Caprolactam                 | 4.8    | U         | 4.8  | 0.19  | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| Carbazole                   | 0.95   | U         | 0.95 | 0.27  | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| 4-Chloroaniline             | 1.9    | U         | 1.9  | 0.20  | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| 4-Chloro-3-methylphenol     | 1.9    | U         | 1.9  | 0.20  | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| 2-Chloronaphthalene         | 0.95   | U         | 0.95 | 0.095 | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| 2-Chlorophenol              | 0.95   | U         | 0.95 | 0.28  | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| 4-Chlorophenyl phenyl ether | 1.9    | U         | 1.9  | 0.29  | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| Chrysene                    | 0.19   | U         | 0.19 | 0.048 | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| Dibenz(a,h)anthracene       | 0.19   | U         | 0.19 | 0.042 | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| Dibenzofuran                | 0.95   | U         | 0.95 | 0.019 | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| 3,3'-Dichlorobenzidine      | 3.8    | U         | 3.8  | 0.35  | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| 2,4-Dichlorophenol          | 1.9    | U         | 1.9  | 0.18  | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| Diethyl phthalate           | 0.95   | U         | 0.95 | 0.57  | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| 2,4-Dimethylphenol          | 1.9    | U         | 1.9  | 0.24  | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| Dimethyl phthalate          | 0.95   | U         | 0.95 | 0.28  | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| Di-n-butyl phthalate        | 0.95   | U         | 0.95 | 1.6   | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| 4,6-Dinitro-2-methylphenol  | 4.8    | U         | 4.8  | 2.3   | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| 2,4-Dinitrophenol           | 4.8    | U         | 4.8  | 0.30  | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| 2,4-Dinitrotoluene          | 4.8    | U         | 4.8  | 0.24  | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| 2,6-Dinitrotoluene          | 4.8    | U         | 4.8  | 0.76  | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| Di-n-octyl phthalate        | 0.95   | U         | 0.95 | 0.22  | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| Fluoranthene                | 0.19   | U         | 0.19 | 0.042 | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| Fluorene                    | 0.19   | U         | 0.19 | 0.039 | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| Hexachlorobenzene           | 0.19   | U         | 0.19 | 0.081 | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| Hexachlorobutadiene         | 0.95   | U         | 0.95 | 0.26  | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| Hexachlorocyclopentadiene   | 4.8    | U         | 4.8  | 0.23  | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| Hexachloroethane            | 0.95   | U         | 0.95 | 0.18  | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| Indeno[1,2,3-cd]pyrene      | 0.19   | U         | 0.19 | 0.041 | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| Isophorone                  | 0.95   | U         | 0.95 | 0.26  | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| 2-Methylnaphthalene         | 0.19   | U         | 0.19 | 0.086 | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| 2-Methylphenol              | 0.95   | U         | 0.95 | 0.16  | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| 3 & 4 Methylphenol          | 1.9    | U         | 1.9  | 0.76  | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |

TestAmerica Canton

# Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70259-1

**Client Sample ID: MW-108WT\_092916**

**Lab Sample ID: 240-70259-5**

**Date Collected: 09/29/16 11:10**

**Matrix: Water**

**Date Received: 10/01/16 09:30**

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte                      | Result | Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Naphthalene                  | 0.19   | U         | 0.19 | 0.060 | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| 2-Nitroaniline               | 1.9    | U         | 1.9  | 0.20  | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| 3-Nitroaniline               | 1.9    | U         | 1.9  | 0.27  | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| 4-Nitroaniline               | 1.9    | U         | 1.9  | 0.21  | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| Nitrobenzene                 | 0.95   | U         | 0.95 | 0.038 | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| 2-Nitrophenol                | 1.9    | U         | 1.9  | 0.27  | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| 4-Nitrophenol                | 4.8    | U         | 4.8  | 0.28  | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| N-Nitrosodi-n-propylamine    | 0.95   | U         | 0.95 | 0.23  | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| N-Nitrosodiphenylamine       | 0.95   | U         | 0.95 | 0.30  | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| 2,2'-oxybis[1-chloropropane] | 0.95   | U         | 0.95 | 0.38  | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| Pentachlorophenol            | 4.8    | U         | 4.8  | 0.26  | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| Phenanthrene                 | 0.19   | U         | 0.19 | 0.059 | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| Phenol                       | 0.95   | U         | 0.95 | 0.57  | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| Pyrene                       | 0.19   | U         | 0.19 | 0.040 | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| 2,4,5-Trichlorophenol        | 4.8    | U         | 4.8  | 0.29  | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| 2,4,6-Trichlorophenol        | 3.8    | U         | 3.8  | 0.23  | ug/L |   | 10/06/16 12:28 | 10/09/16 19:21 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl (Surr)     | 61        |           | 42 - 120 | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| 2-Fluorophenol (Surr)       | 27        |           | 10 - 120 | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| Nitrobenzene-d5 (Surr)      | 56        |           | 36 - 120 | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| Phenol-d5 (Surr)            | 15        |           | 10 - 120 | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| Terphenyl-d14 (Surr)        | 62        |           | 17 - 120 | 10/06/16 12:28 | 10/09/16 19:21 | 1       |
| 2,4,6-Tribromophenol (Surr) | 62        |           | 35 - 125 | 10/06/16 12:28 | 10/09/16 19:21 | 1       |

## Method: 6020 - Metals (ICP/MS) - Total Recoverable

| Analyte   | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Manganese | 2000   | ^         | 1.0 | 0.25 | ug/L |   | 10/04/16 14:00 | 10/13/16 02:09 | 1       |

## General Chemistry

| Analyte               | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Ammonia (as N)        | 0.060  | J         | 0.20 | 0.033 | mg/L |   |          | 10/13/16 14:37 | 1       |
| Total Phosphorus as P | 0.10   | U         | 0.10 | 0.049 | mg/L |   |          | 10/05/16 10:32 | 1       |

TestAmerica Canton



## Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70259-1

**Client Sample ID: MW-108S2\_092916**

**Lab Sample ID: 240-70259-6**

**Date Collected: 09/29/16 11:45**

**Matrix: Water**

**Date Received: 10/01/16 09:30**

### General Chemistry

| Analyte        | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Ammonia (as N) | 5.4    |           | 0.40 | 0.066 | mg/L | - |          | 10/13/16 14:52 | 2       |

# Surrogate Summary

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70259-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID      | Client Sample ID   | Percent Surrogate Recovery (Acceptance Limits) |                 |                 |                 |                 |                 |
|--------------------|--------------------|------------------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|                    |                    | FBP<br>(42-120)                                | 2FP<br>(10-120) | NBZ<br>(36-120) | PHL<br>(10-120) | TPH<br>(17-120) | TBP<br>(35-125) |
| 240-70259-5        | MW-108WT_092916    | 61                                             | 27              | 56              | 15              | 62              | 62              |
| LCS 240-250174/8-A | Lab Control Sample | 71                                             | 58              | 76              | 41              | 88              | 81              |
| MB 240-250174/7-A  | Method Blank       | 74                                             | 59              | 70              | 44              | 80              | 70              |

### Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)  
2FP = 2-Fluorophenol (Surr)  
NBZ = Nitrobenzene-d5 (Surr)  
PHL = Phenol-d5 (Surr)  
TPH = Terphenyl-d14 (Surr)  
TBP = 2,4,6-Tribromophenol (Surr)

# QC Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70259-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-250174/7-A

Matrix: Water

Analysis Batch: 250497

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 250174

| Analyte                     | MB Result | MB Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|--------------|------|-------|------|---|----------------|----------------|---------|
| Acenaphthene                | 0.20      | U            | 0.20 | 0.044 | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| Acenaphthylene              | 0.20      | U            | 0.20 | 0.048 | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| Acetophenone                | 1.0       | U            | 1.0  | 0.34  | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| Anthracene                  | 0.20      | U            | 0.20 | 0.088 | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| Atrazine                    | 1.0       | U            | 1.0  | 0.34  | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| Benzaldehyde                | 1.0       | U            | 1.0  | 0.39  | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| Benzo[a]anthracene          | 0.20      | U            | 0.20 | 0.030 | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| Benzo[a]pyrene              | 0.20      | U            | 0.20 | 0.051 | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| Benzo[b]fluoranthene        | 0.20      | U            | 0.20 | 0.039 | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| Benzo[g,h,i]perylene        | 0.20      | U            | 0.20 | 0.046 | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| Benzo[k]fluoranthene        | 0.20      | U            | 0.20 | 0.045 | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| 1,1'-Biphenyl               | 1.0       | U            | 1.0  | 0.13  | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| Bis(2-chloroethoxy)methane  | 1.0       | U            | 1.0  | 0.32  | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| Bis(2-chloroethyl)ether     | 1.0       | U            | 1.0  | 0.10  | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| Bis(2-ethylhexyl) phthalate | 2.0       | U            | 2.0  | 1.7   | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| 4-Bromophenyl phenyl ether  | 2.0       | U            | 2.0  | 0.22  | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| Butyl benzyl phthalate      | 1.0       | U            | 1.0  | 0.26  | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| Caprolactam                 | 5.0       | U            | 5.0  | 0.20  | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| Carbazole                   | 1.0       | U            | 1.0  | 0.28  | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| 4-Chloroaniline             | 2.0       | U            | 2.0  | 0.21  | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| 4-Chloro-3-methylphenol     | 2.0       | U            | 2.0  | 0.21  | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| 2-Chloronaphthalene         | 1.0       | U            | 1.0  | 0.10  | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| 2-Chlorophenol              | 1.0       | U            | 1.0  | 0.29  | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| 4-Chlorophenyl phenyl ether | 2.0       | U            | 2.0  | 0.30  | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| Chrysene                    | 0.20      | U            | 0.20 | 0.050 | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| Dibenz(a,h)anthracene       | 0.20      | U            | 0.20 | 0.045 | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| Dibenzofuran                | 1.0       | U            | 1.0  | 0.020 | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| 3,3'-Dichlorobenzidine      | 4.0       | U            | 4.0  | 0.37  | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| 2,4-Dichlorophenol          | 2.0       | U            | 2.0  | 0.19  | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| Diethyl phthalate           | 1.0       | U            | 1.0  | 0.60  | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| 2,4-Dimethylphenol          | 2.0       | U            | 2.0  | 0.25  | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| Dimethyl phthalate          | 1.0       | U            | 1.0  | 0.29  | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| Di-n-butyl phthalate        | 1.0       | U            | 1.0  | 1.7   | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| 4,6-Dinitro-2-methylphenol  | 5.0       | U            | 5.0  | 2.4   | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| 2,4-Dinitrophenol           | 5.0       | U            | 5.0  | 0.32  | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| 2,4-Dinitrotoluene          | 5.0       | U            | 5.0  | 0.25  | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| 2,6-Dinitrotoluene          | 5.0       | U            | 5.0  | 0.80  | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| Di-n-octyl phthalate        | 1.0       | U            | 1.0  | 0.23  | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| Fluoranthene                | 0.20      | U            | 0.20 | 0.045 | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| Fluorene                    | 0.20      | U            | 0.20 | 0.041 | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| Hexachlorobenzene           | 0.20      | U            | 0.20 | 0.085 | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| Hexachlorobutadiene         | 1.0       | U            | 1.0  | 0.27  | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| Hexachlorocyclopentadiene   | 5.0       | U            | 5.0  | 0.24  | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| Hexachloroethane            | 1.0       | U            | 1.0  | 0.19  | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| Indeno[1,2,3-cd]pyrene      | 0.20      | U            | 0.20 | 0.043 | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| Isophorone                  | 1.0       | U            | 1.0  | 0.27  | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| 2-Methylnaphthalene         | 0.20      | U            | 0.20 | 0.090 | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| 2-Methylphenol              | 1.0       | U            | 1.0  | 0.17  | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |

TestAmerica Canton

# QC Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70259-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-250174/7-A

Matrix: Water

Analysis Batch: 250497

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 250174

| Analyte                      | MB Result | MB Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|--------------|------|-------|------|---|----------------|----------------|---------|
| 3 & 4 Methylphenol           | 2.0       | U            | 2.0  | 0.80  | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| Naphthalene                  | 0.20      | U            | 0.20 | 0.063 | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| 2-Nitroaniline               | 2.0       | U            | 2.0  | 0.21  | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| 3-Nitroaniline               | 2.0       | U            | 2.0  | 0.28  | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| 4-Nitroaniline               | 2.0       | U            | 2.0  | 0.22  | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| Nitrobenzene                 | 1.0       | U            | 1.0  | 0.040 | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| 2-Nitrophenol                | 2.0       | U            | 2.0  | 0.28  | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| 4-Nitrophenol                | 5.0       | U            | 5.0  | 0.29  | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| N-Nitrosodi-n-propylamine    | 1.0       | U            | 1.0  | 0.24  | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| N-Nitrosodiphenylamine       | 1.0       | U            | 1.0  | 0.31  | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| 2,2'-oxybis[1-chloropropane] | 1.0       | U            | 1.0  | 0.40  | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| Pentachlorophenol            | 5.0       | U            | 5.0  | 0.27  | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| Phenanthrene                 | 0.20      | U            | 0.20 | 0.062 | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| Phenol                       | 1.0       | U            | 1.0  | 0.60  | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| Pyrene                       | 0.20      | U            | 0.20 | 0.042 | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| 2,4,5-Trichlorophenol        | 5.0       | U            | 5.0  | 0.30  | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| 2,4,6-Trichlorophenol        | 4.0       | U            | 4.0  | 0.24  | ug/L |   | 10/06/16 12:28 | 10/09/16 10:59 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl (Surr)     | 74           |              | 42 - 120 | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| 2-Fluorophenol (Surr)       | 59           |              | 10 - 120 | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| Nitrobenzene-d5 (Surr)      | 70           |              | 36 - 120 | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| Phenol-d5 (Surr)            | 44           |              | 10 - 120 | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| Terphenyl-d14 (Surr)        | 80           |              | 17 - 120 | 10/06/16 12:28 | 10/09/16 10:59 | 1       |
| 2,4,6-Tribromophenol (Surr) | 70           |              | 35 - 125 | 10/06/16 12:28 | 10/09/16 10:59 | 1       |

Lab Sample ID: LCS 240-250174/8-A

Matrix: Water

Analysis Batch: 250497

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 250174

| Analyte                     | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits   |
|-----------------------------|-------------|------------|---------------|------|---|------|----------|
| Acenaphthene                | 20.0        | 13.9       |               | ug/L |   | 70   | 57 - 120 |
| Acenaphthylene              | 20.0        | 14.0       |               | ug/L |   | 70   | 55 - 120 |
| Acetophenone                | 20.0        | 14.6       |               | ug/L |   | 73   | 60 - 120 |
| Anthracene                  | 20.0        | 15.3       |               | ug/L |   | 76   | 58 - 120 |
| Atrazine                    | 40.0        | 37.0       |               | ug/L |   | 93   | 61 - 132 |
| Benzaldehyde                | 40.0        | 30.2       |               | ug/L |   | 75   | 60 - 120 |
| Benzo[a]anthracene          | 20.0        | 15.5       |               | ug/L |   | 77   | 59 - 120 |
| Benzo[a]pyrene              | 20.0        | 16.1       |               | ug/L |   | 81   | 60 - 120 |
| Benzo[b]fluoranthene        | 20.0        | 15.9       |               | ug/L |   | 80   | 62 - 120 |
| Benzo[g,h,i]perylene        | 20.0        | 16.6       |               | ug/L |   | 83   | 59 - 120 |
| Benzo[k]fluoranthene        | 20.0        | 16.2       |               | ug/L |   | 81   | 57 - 120 |
| 1,1'-Biphenyl               | 20.0        | 14.2       |               | ug/L |   | 71   | 58 - 120 |
| Bis(2-chloroethoxy)methane  | 20.0        | 15.2       |               | ug/L |   | 76   | 61 - 120 |
| Bis(2-chloroethyl)ether     | 20.0        | 14.0       |               | ug/L |   | 70   | 55 - 120 |
| Bis(2-ethylhexyl) phthalate | 20.0        | 16.8       |               | ug/L |   | 84   | 62 - 123 |
| 4-Bromophenyl phenyl ether  | 20.0        | 16.0       |               | ug/L |   | 80   | 52 - 128 |
| Butyl benzyl phthalate      | 20.0        | 16.6       |               | ug/L |   | 83   | 61 - 120 |

TestAmerica Canton

# QC Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70259-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-250174/8-A

Matrix: Water

Analysis Batch: 250497

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 250174

| Analyte                      | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------------|-------------|------------|---------------|------|---|------|--------------|
| Caprolactam                  | 40.0        | 7.47       |               | ug/L |   | 19   | 10 - 120     |
| Carbazole                    | 20.0        | 17.5       |               | ug/L |   | 87   | 60 - 126     |
| 4-Chloroaniline              | 20.0        | 5.84       |               | ug/L |   | 29   | 10 - 120     |
| 4-Chloro-3-methylphenol      | 20.0        | 14.7       |               | ug/L |   | 74   | 59 - 120     |
| 2-Chloronaphthalene          | 20.0        | 13.9       |               | ug/L |   | 70   | 56 - 120     |
| 2-Chlorophenol               | 20.0        | 14.4       |               | ug/L |   | 72   | 57 - 120     |
| 4-Chlorophenyl phenyl ether  | 20.0        | 15.5       |               | ug/L |   | 78   | 58 - 120     |
| Chrysene                     | 20.0        | 16.0       |               | ug/L |   | 80   | 61 - 120     |
| Dibenz(a,h)anthracene        | 20.0        | 17.1       |               | ug/L |   | 86   | 61 - 120     |
| Dibenzofuran                 | 20.0        | 14.9       |               | ug/L |   | 74   | 58 - 120     |
| 3,3'-Dichlorobenzidine       | 40.0        | 33.9       |               | ug/L |   | 85   | 10 - 134     |
| 2,4-Dichlorophenol           | 20.0        | 15.1       |               | ug/L |   | 75   | 57 - 120     |
| Diethyl phthalate            | 20.0        | 16.2       |               | ug/L |   | 81   | 62 - 120     |
| 2,4-Dimethylphenol           | 20.0        | 13.8       |               | ug/L |   | 69   | 55 - 120     |
| Dimethyl phthalate           | 20.0        | 16.1       |               | ug/L |   | 80   | 62 - 120     |
| Di-n-butyl phthalate         | 20.0        | 18.4       |               | ug/L |   | 92   | 59 - 128     |
| 4,6-Dinitro-2-methylphenol   | 40.0        | 30.1       |               | ug/L |   | 75   | 35 - 140     |
| 2,4-Dinitrophenol            | 40.0        | 24.5       |               | ug/L |   | 61   | 18 - 127     |
| 2,4-Dinitrotoluene           | 20.0        | 17.1       |               | ug/L |   | 85   | 65 - 120     |
| 2,6-Dinitrotoluene           | 20.0        | 15.8       |               | ug/L |   | 79   | 65 - 120     |
| Di-n-octyl phthalate         | 20.0        | 15.8       |               | ug/L |   | 79   | 58 - 120     |
| Fluoranthene                 | 20.0        | 17.7       |               | ug/L |   | 89   | 57 - 123     |
| Fluorene                     | 20.0        | 14.9       |               | ug/L |   | 75   | 56 - 120     |
| Hexachlorobenzene            | 20.0        | 15.9       |               | ug/L |   | 80   | 47 - 127     |
| Hexachlorobutadiene          | 20.0        | 14.1       |               | ug/L |   | 70   | 50 - 120     |
| Hexachlorocyclopentadiene    | 20.0        | 10.6       |               | ug/L |   | 53   | 25 - 120     |
| Hexachloroethane             | 20.0        | 13.2       |               | ug/L |   | 66   | 50 - 120     |
| Indeno[1,2,3-cd]pyrene       | 20.0        | 17.1       |               | ug/L |   | 86   | 61 - 120     |
| Isophorone                   | 20.0        | 14.9       |               | ug/L |   | 75   | 61 - 120     |
| 2-Methylnaphthalene          | 20.0        | 14.5       |               | ug/L |   | 72   | 58 - 120     |
| 2-Methylphenol               | 20.0        | 13.5       |               | ug/L |   | 68   | 52 - 120     |
| 3 & 4 Methylphenol           | 20.0        | 12.6       |               | ug/L |   | 63   | 46 - 120     |
| Naphthalene                  | 20.0        | 14.4       |               | ug/L |   | 72   | 54 - 120     |
| 2-Nitroaniline               | 20.0        | 15.7       |               | ug/L |   | 79   | 56 - 123     |
| 3-Nitroaniline               | 20.0        | 15.0       |               | ug/L |   | 75   | 36 - 120     |
| 4-Nitroaniline               | 20.0        | 15.1       |               | ug/L |   | 75   | 51 - 122     |
| Nitrobenzene                 | 20.0        | 15.1       |               | ug/L |   | 76   | 58 - 120     |
| 2-Nitrophenol                | 20.0        | 15.6       |               | ug/L |   | 78   | 62 - 120     |
| 4-Nitrophenol                | 40.0        | 18.0       |               | ug/L |   | 45   | 16 - 120     |
| N-Nitrosodi-n-propylamine    | 20.0        | 14.9       |               | ug/L |   | 74   | 60 - 120     |
| N-Nitrosodiphenylamine       | 20.0        | 17.0       |               | ug/L |   | 85   | 54 - 122     |
| 2,2'-oxybis[1-chloropropane] | 20.0        | 14.6       |               | ug/L |   | 73   | 46 - 120     |
| Pentachlorophenol            | 40.0        | 25.2       |               | ug/L |   | 63   | 35 - 121     |
| Phenanthrene                 | 20.0        | 15.1       |               | ug/L |   | 76   | 58 - 120     |
| Phenol                       | 20.0        | 7.65       |               | ug/L |   | 38   | 16 - 120     |
| Pyrene                       | 20.0        | 16.7       |               | ug/L |   | 84   | 60 - 120     |
| 2,4,5-Trichlorophenol        | 20.0        | 14.5       |               | ug/L |   | 73   | 57 - 120     |
| 2,4,6-Trichlorophenol        | 20.0        | 15.0       |               | ug/L |   | 75   | 60 - 120     |

TestAmerica Canton

# QC Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70259-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-250174/8-A

Matrix: Water

Analysis Batch: 250497

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 250174

| Surrogate                   | LCS<br>%Recovery | LCS<br>Qualifier | Limits   |
|-----------------------------|------------------|------------------|----------|
| 2-Fluorobiphenyl (Surr)     | 71               |                  | 42 - 120 |
| 2-Fluorophenol (Surr)       | 58               |                  | 10 - 120 |
| Nitrobenzene-d5 (Surr)      | 76               |                  | 36 - 120 |
| Phenol-d5 (Surr)            | 41               |                  | 10 - 120 |
| Terphenyl-d14 (Surr)        | 88               |                  | 17 - 120 |
| 2,4,6-Tribromophenol (Surr) | 81               |                  | 35 - 125 |

## Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 240-249703/1-A

Matrix: Water

Analysis Batch: 251370

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 249703

| Analyte   | MB<br>Result | MB<br>Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------------|-----------------|-----|------|------|---|----------------|----------------|---------|
| Arsenic   | 2.0          | U               | 2.0 | 0.35 | ug/L |   | 10/04/16 14:00 | 10/13/16 15:47 | 1       |
| Manganese | 1.0          | U               | 1.0 | 0.25 | ug/L |   | 10/04/16 14:00 | 10/13/16 15:47 | 1       |
| Thallium  | 1.0          | U               | 1.0 | 0.28 | ug/L |   | 10/04/16 14:00 | 10/13/16 15:47 | 1       |

Lab Sample ID: LCS 240-249703/2-A

Matrix: Water

Analysis Batch: 251370

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 249703

| Analyte   | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|-----------|----------------|---------------|------------------|------|---|------|-----------------|
| Arsenic   | 1000           | 1000          |                  | ug/L |   | 100  | 80 - 120        |
| Manganese | 1000           | 1040          |                  | ug/L |   | 104  | 80 - 120        |
| Thallium  | 250            | 263           |                  | ug/L |   | 105  | 80 - 120        |

Lab Sample ID: 240-70259-1 MS

Matrix: Water

Analysis Batch: 251153

Client Sample ID: MW-149WT\_092916

Prep Type: Total Recoverable

Prep Batch: 249703

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|----------|------------------|---------------------|----------------|--------------|-----------------|------|---|------|-----------------|
| Thallium | 1.0              | U                   | 250            | 251          |                 | ug/L |   | 100  | 75 - 125        |

Lab Sample ID: 240-70259-1 MS

Matrix: Water

Analysis Batch: 251370

Client Sample ID: MW-149WT\_092916

Prep Type: Total Recoverable

Prep Batch: 249703

| Analyte | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|---------|------------------|---------------------|----------------|--------------|-----------------|------|---|------|-----------------|
| Arsenic | 50               |                     | 1000           | 1040         |                 | ug/L |   | 99   | 75 - 125        |

Lab Sample ID: 240-70259-1 MSD

Matrix: Water

Analysis Batch: 251153

Client Sample ID: MW-149WT\_092916

Prep Type: Total Recoverable

Prep Batch: 249703

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits | RPD | RPD<br>Limit |
|----------|------------------|---------------------|----------------|---------------|------------------|------|---|------|-----------------|-----|--------------|
| Thallium | 1.0              | U                   | 250            | 252           |                  | ug/L |   | 101  | 75 - 125        | 1   | 20           |

TestAmerica Canton

# QC Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70259-1

## Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 240-70259-1 MSD

Matrix: Water

Analysis Batch: 251370

Client Sample ID: MW-149WT\_092916

Prep Type: Total Recoverable

Prep Batch: 249703

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Arsenic | 50            |                  | 1000        | 1050       |               | ug/L |   | 100  | 75 - 125     | 1   | 20        |

## Method: SM 4500 NH3 D - Ammonia

Lab Sample ID: MB 240-251320/7

Matrix: Water

Analysis Batch: 251320

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte        | MB Result | MB Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| Ammonia (as N) | 0.20      | U            | 0.20 | 0.033 | mg/L |   |          | 10/13/16 12:34 | 1       |

Lab Sample ID: LCS 240-251320/8

Matrix: Water

Analysis Batch: 251320

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte        | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------|-------------|------------|---------------|------|---|------|--------------|
| Ammonia (as N) | 3.84        | 3.76       |               | mg/L |   | 98   | 85 - 114     |

Lab Sample ID: 240-70259-1 MS

Matrix: Water

Analysis Batch: 251320

Client Sample ID: MW-149WT\_092916

Prep Type: Total/NA

| Analyte        | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Ammonia (as N) | 1.2           |                  | 12.5        | 13.2      |              | mg/L |   | 96   | 79 - 130     |

Lab Sample ID: 240-70259-1 MSD

Matrix: Water

Analysis Batch: 251320

Client Sample ID: MW-149WT\_092916

Prep Type: Total/NA

| Analyte        | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Ammonia (as N) | 1.2           |                  | 12.5        | 13.4       |               | mg/L |   | 97   | 79 - 130     | 1   | 10        |

## Method: SM4500 P E-1999 - Phosphorus

Lab Sample ID: MB 240-249902/3

Matrix: Water

Analysis Batch: 249902

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte               | MB Result | MB Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| Total Phosphorus as P | 0.10      | U            | 0.10 | 0.049 | mg/L |   |          | 10/05/16 10:02 | 1       |

Lab Sample ID: LCS 240-249902/4

Matrix: Water

Analysis Batch: 249902

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte               | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------|-------------|------------|---------------|------|---|------|--------------|
| Total Phosphorus as P | 0.665       | 0.726      |               | mg/L |   | 109  | 77 - 120     |

TestAmerica Canton



# QC Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70259-1

## Method: SM4500 P E-1999 - Phosphorus (Continued)

Lab Sample ID: 240-70259-1 MS

Matrix: Water

Analysis Batch: 249902

Client Sample ID: MW-149WT\_092916

Prep Type: Total/NA

| Analyte               | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Total Phosphorus as P | 0.62          |                  | 0.500       | 0.966     |              | mg/L |   | 69   | 38 - 156     |

Lab Sample ID: 240-70259-1 MSD

Matrix: Water

Analysis Batch: 249902

Client Sample ID: MW-149WT\_092916

Prep Type: Total/NA

| Analyte               | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-----------------------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Total Phosphorus as P | 0.62          |                  | 0.500       | 0.970      |               | mg/L |   | 70   | 38 - 156     | 0   | 29        |

# QC Association Summary

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70259-1

## GC/MS Semi VOA

### Prep Batch: 250174

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 240-70259-5        | MW-108WT_092916    | Total/NA  | Water  | 3510C  |            |
| MB 240-250174/7-A  | Method Blank       | Total/NA  | Water  | 3510C  |            |
| LCS 240-250174/8-A | Lab Control Sample | Total/NA  | Water  | 3510C  |            |

### Analysis Batch: 250497

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 240-70259-5        | MW-108WT_092916    | Total/NA  | Water  | 8270C  | 250174     |
| MB 240-250174/7-A  | Method Blank       | Total/NA  | Water  | 8270C  | 250174     |
| LCS 240-250174/8-A | Lab Control Sample | Total/NA  | Water  | 8270C  | 250174     |

## Metals

### Prep Batch: 249703

| Lab Sample ID      | Client Sample ID   | Prep Type         | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 240-70259-1        | MW-149WT_092916    | Total Recoverable | Water  | 3005A  |            |
| 240-70259-2        | DUP-03_092916      | Total Recoverable | Water  | 3005A  |            |
| 240-70259-3        | MW-107WT_092916    | Total Recoverable | Water  | 3005A  |            |
| 240-70259-5        | MW-108WT_092916    | Total Recoverable | Water  | 3005A  |            |
| MB 240-249703/1-A  | Method Blank       | Total Recoverable | Water  | 3005A  |            |
| LCS 240-249703/2-A | Lab Control Sample | Total Recoverable | Water  | 3005A  |            |
| 240-70259-1 MS     | MW-149WT_092916    | Total Recoverable | Water  | 3005A  |            |
| 240-70259-1 MSD    | MW-149WT_092916    | Total Recoverable | Water  | 3005A  |            |

### Analysis Batch: 251153

| Lab Sample ID   | Client Sample ID | Prep Type         | Matrix | Method | Prep Batch |
|-----------------|------------------|-------------------|--------|--------|------------|
| 240-70259-1     | MW-149WT_092916  | Total Recoverable | Water  | 6020   | 249703     |
| 240-70259-2     | DUP-03_092916    | Total Recoverable | Water  | 6020   | 249703     |
| 240-70259-3     | MW-107WT_092916  | Total Recoverable | Water  | 6020   | 249703     |
| 240-70259-5     | MW-108WT_092916  | Total Recoverable | Water  | 6020   | 249703     |
| 240-70259-1 MS  | MW-149WT_092916  | Total Recoverable | Water  | 6020   | 249703     |
| 240-70259-1 MSD | MW-149WT_092916  | Total Recoverable | Water  | 6020   | 249703     |

### Analysis Batch: 251370

| Lab Sample ID      | Client Sample ID   | Prep Type         | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 240-70259-1        | MW-149WT_092916    | Total Recoverable | Water  | 6020   | 249703     |
| 240-70259-2        | DUP-03_092916      | Total Recoverable | Water  | 6020   | 249703     |
| 240-70259-3        | MW-107WT_092916    | Total Recoverable | Water  | 6020   | 249703     |
| MB 240-249703/1-A  | Method Blank       | Total Recoverable | Water  | 6020   | 249703     |
| LCS 240-249703/2-A | Lab Control Sample | Total Recoverable | Water  | 6020   | 249703     |
| 240-70259-1 MS     | MW-149WT_092916    | Total Recoverable | Water  | 6020   | 249703     |
| 240-70259-1 MSD    | MW-149WT_092916    | Total Recoverable | Water  | 6020   | 249703     |

## General Chemistry

### Analysis Batch: 249902

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method             | Prep Batch |
|---------------|------------------|-----------|--------|--------------------|------------|
| 240-70259-1   | MW-149WT_092916  | Total/NA  | Water  | SM4500 P<br>E-1999 |            |
| 240-70259-2   | DUP-03_092916    | Total/NA  | Water  | SM4500 P<br>E-1999 |            |

TestAmerica Canton

## QC Association Summary

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70259-1

### General Chemistry (Continued)

#### Analysis Batch: 249902 (Continued)

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method             | Prep Batch |
|------------------|--------------------|-----------|--------|--------------------|------------|
| 240-70259-3      | MW-107WT_092916    | Total/NA  | Water  | SM4500 P<br>E-1999 |            |
| 240-70259-5      | MW-108WT_092916    | Total/NA  | Water  | SM4500 P<br>E-1999 |            |
| MB 240-249902/3  | Method Blank       | Total/NA  | Water  | SM4500 P<br>E-1999 |            |
| LCS 240-249902/4 | Lab Control Sample | Total/NA  | Water  | SM4500 P<br>E-1999 |            |
| 240-70259-1 MS   | MW-149WT_092916    | Total/NA  | Water  | SM4500 P<br>E-1999 |            |
| 240-70259-1 MSD  | MW-149WT_092916    | Total/NA  | Water  | SM4500 P<br>E-1999 |            |

#### Analysis Batch: 251320

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method        | Prep Batch |
|------------------|--------------------|-----------|--------|---------------|------------|
| 240-70259-1      | MW-149WT_092916    | Total/NA  | Water  | SM 4500 NH3 D |            |
| 240-70259-3      | MW-107WT_092916    | Total/NA  | Water  | SM 4500 NH3 D |            |
| 240-70259-4      | MW-107S1_092916    | Total/NA  | Water  | SM 4500 NH3 D |            |
| 240-70259-5      | MW-108WT_092916    | Total/NA  | Water  | SM 4500 NH3 D |            |
| 240-70259-6      | MW-108S2_092916    | Total/NA  | Water  | SM 4500 NH3 D |            |
| MB 240-251320/7  | Method Blank       | Total/NA  | Water  | SM 4500 NH3 D |            |
| LCS 240-251320/8 | Lab Control Sample | Total/NA  | Water  | SM 4500 NH3 D |            |
| 240-70259-1 MS   | MW-149WT_092916    | Total/NA  | Water  | SM 4500 NH3 D |            |
| 240-70259-1 MSD  | MW-149WT_092916    | Total/NA  | Water  | SM 4500 NH3 D |            |

# Lab Chronicle

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70259-1

**Client Sample ID: MW-149WT\_092916**

**Date Collected: 09/29/16 07:55**

**Date Received: 10/01/16 09:30**

**Lab Sample ID: 240-70259-1**

**Matrix: Water**

| Prep Type         | Batch Type | Batch Method    | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 3005A           |     |                 | 249703       | 10/04/16 14:00       | AJC     | TAL CAN |
| Total Recoverable | Analysis   | 6020            |     | 1               | 251153       | 10/13/16 00:41       | AS1     | TAL CAN |
| Total Recoverable | Prep       | 3005A           |     |                 | 249703       | 10/04/16 14:00       | AJC     | TAL CAN |
| Total Recoverable | Analysis   | 6020            |     | 1               | 251370       | 10/13/16 15:56       | AS1     | TAL CAN |
| Total/NA          | Analysis   | SM 4500 NH3 D   |     | 1               | 251320       | 10/13/16 13:46       | JMB     | TAL CAN |
| Total/NA          | Analysis   | SM4500 P E-1999 |     | 1               | 249902       | 10/05/16 10:25       | TPH     | TAL CAN |

**Client Sample ID: DUP-03\_092916**

**Date Collected: 09/29/16 00:00**

**Date Received: 10/01/16 09:30**

**Lab Sample ID: 240-70259-2**

**Matrix: Water**

| Prep Type         | Batch Type | Batch Method    | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 3005A           |     |                 | 249703       | 10/04/16 14:00       | AJC     | TAL CAN |
| Total Recoverable | Analysis   | 6020            |     | 1               | 251153       | 10/13/16 02:01       | AS1     | TAL CAN |
| Total Recoverable | Prep       | 3005A           |     |                 | 249703       | 10/04/16 14:00       | AJC     | TAL CAN |
| Total Recoverable | Analysis   | 6020            |     | 1               | 251370       | 10/13/16 16:55       | AS1     | TAL CAN |
| Total/NA          | Analysis   | SM4500 P E-1999 |     | 1               | 249902       | 10/05/16 10:29       | TPH     | TAL CAN |

**Client Sample ID: MW-107WT\_092916**

**Date Collected: 09/29/16 08:40**

**Date Received: 10/01/16 09:30**

**Lab Sample ID: 240-70259-3**

**Matrix: Water**

| Prep Type         | Batch Type | Batch Method    | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 3005A           |     |                 | 249703       | 10/04/16 14:00       | AJC     | TAL CAN |
| Total Recoverable | Analysis   | 6020            |     | 1               | 251153       | 10/13/16 02:05       | AS1     | TAL CAN |
| Total Recoverable | Prep       | 3005A           |     |                 | 249703       | 10/04/16 14:00       | AJC     | TAL CAN |
| Total Recoverable | Analysis   | 6020            |     | 1               | 251370       | 10/13/16 16:59       | AS1     | TAL CAN |
| Total/NA          | Analysis   | SM 4500 NH3 D   |     | 1               | 251320       | 10/13/16 14:13       | JMB     | TAL CAN |
| Total/NA          | Analysis   | SM4500 P E-1999 |     | 1               | 249902       | 10/05/16 10:31       | TPH     | TAL CAN |

**Client Sample ID: MW-107S1\_092916**

**Date Collected: 09/29/16 10:15**

**Date Received: 10/01/16 09:30**

**Lab Sample ID: 240-70259-4**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method  | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | SM 4500 NH3 D |     | 1               | 251320       | 10/13/16 14:24       | JMB     | TAL CAN |

TestAmerica Canton

# Lab Chronicle

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70259-1

**Client Sample ID: MW-108WT\_092916**

**Lab Sample ID: 240-70259-5**

**Date Collected: 09/29/16 11:10**

**Matrix: Water**

**Date Received: 10/01/16 09:30**

| Prep Type         | Batch Type | Batch Method    | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA          | Prep       | 3510C           |     |                 | 250174       | 10/06/16 12:28       | CS      | TAL CAN |
| Total/NA          | Analysis   | 8270C           |     | 1               | 250497       | 10/09/16 19:21       | MRU     | TAL CAN |
| Total Recoverable | Prep       | 3005A           |     |                 | 249703       | 10/04/16 14:00       | AJC     | TAL CAN |
| Total Recoverable | Analysis   | 6020            |     | 1               | 251153       | 10/13/16 02:09       | AS1     | TAL CAN |
| Total/NA          | Analysis   | SM 4500 NH3 D   |     | 1               | 251320       | 10/13/16 14:37       | JMB     | TAL CAN |
| Total/NA          | Analysis   | SM4500 P E-1999 |     | 1               | 249902       | 10/05/16 10:32       | TPH     | TAL CAN |

**Client Sample ID: MW-108S2\_092916**

**Lab Sample ID: 240-70259-6**

**Date Collected: 09/29/16 11:45**

**Matrix: Water**

**Date Received: 10/01/16 09:30**

| Prep Type | Batch Type | Batch Method  | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | SM 4500 NH3 D |     | 2               | 251320       | 10/13/16 14:52       | JMB     | TAL CAN |

## Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

# Certification Summary

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70259-1

## Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority             | Program       | EPA Region | Certification ID | Expiration Date |
|-----------------------|---------------|------------|------------------|-----------------|
| California            | NELAP         | 9          | 01144CA          | 06-30-14 *      |
| California            | State Program | 9          | 2927             | 04-30-17        |
| Connecticut           | State Program | 1          | PH-0590          | 12-31-17        |
| Florida               | NELAP         | 4          | E87225           | 06-30-17        |
| Illinois              | NELAP         | 5          | 200004           | 07-31-17        |
| Kansas                | NELAP         | 7          | E-10336          | 01-31-17        |
| Kentucky (UST)        | State Program | 4          | 58               | 02-23-17        |
| Kentucky (VW)         | State Program | 4          | 98016            | 12-31-16 *      |
| Minnesota             | NELAP         | 5          | 039-999-348      | 12-31-16 *      |
| Minnesota (Petrofund) | State Program | 1          | 3506             | 07-31-17        |
| Nevada                | State Program | 9          | OH-000482008A    | 07-31-17        |
| New Jersey            | NELAP         | 2          | OH001            | 06-30-17        |
| New York              | NELAP         | 2          | 10975            | 03-31-17        |
| Ohio VAP              | State Program | 5          | CL0024           | 09-14-17        |
| Oregon                | NELAP         | 10         | 4062             | 02-23-17        |
| Pennsylvania          | NELAP         | 3          | 68-00340         | 08-31-17        |
| Texas                 | NELAP         | 6          | T104704517-15-5  | 08-31-17        |
| USDA                  | Federal       |            | P330-13-00319    | 11-26-16 *      |
| Virginia              | NELAP         | 3          | 460175           | 09-14-17        |
| Washington            | State Program | 10         | C971             | 01-12-17        |
| West Virginia DEP     | State Program | 3          | 210              | 12-31-16 *      |
| Wisconsin             | State Program | 5          | 999518190        | 08-31-17        |

\* Certification renewal pending - certification considered valid.

TestAmerica Canton

TestAmerica Michigan  
10448 Citation Drive  
Suite 200  
Brighton, MI 48116  
Phone: 810.229.2763 Fax:

2-2/C2,6

# Chain of Custody Record

163563

TestAmerica  
THE LEADER IN ENVIRONMENTAL TESTING  
TestAmerica Laboratories, Inc.  
TAL-8210 (07/13)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

| Client Contact                                                                                                                                                                   |         | Project Manager:                                                                                                                |   | Site Contact:                   |   | Date:                  |   | COC No:                  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------------------------------------------------------------------------------------------------------------------------------|---|---------------------------------|---|------------------------|---|--------------------------|--|
| Company Name: ARCADIS                                                                                                                                                            |         | Tel/Fax:                                                                                                                        |   | Lab Contact:                    |   | Carrier:               |   | COCS                     |  |
| Address: 28550 CANTON DR SUITE 500                                                                                                                                               |         | Analysis Turnaround Time                                                                                                        |   | Perform MS / MSD (Y / N)        |   | Sample Specific Notes: |   |                          |  |
| City/State/Zip: NGUYEN, MI 48370                                                                                                                                                 |         | <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS                                                    |   | Filtered Sample (Y / N)         |   |                        |   |                          |  |
| Phone: 248-994-2240                                                                                                                                                              |         | TAT if different from Below                                                                                                     |   | # of Cont.                      |   |                        |   |                          |  |
| Fax: 248-994-2241                                                                                                                                                                |         | <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day |   | Matrix                          |   |                        |   |                          |  |
| Project Name: SAGINAW MALHEASUE FAC                                                                                                                                              |         | Sample Type (C=Comp, G=Grab)                                                                                                    |   | Sample Time                     |   | Sample Date            |   |                          |  |
| Site: RACON SAGINAW                                                                                                                                                              |         |                                                                                                                                 |   |                                 |   |                        |   |                          |  |
| PO # 60064434-2016                                                                                                                                                               |         |                                                                                                                                 |   |                                 |   |                        |   |                          |  |
| MW-149WT-092916                                                                                                                                                                  | 9/29/16 | 7:55                                                                                                                            | G | GW                              | 7 | 1                      | 3 | MSMSO                    |  |
| DUP-03-092916                                                                                                                                                                    | 9/29/16 | —                                                                                                                               | G | GW                              | 2 | 1                      | 1 |                          |  |
| MW-107WT-092916                                                                                                                                                                  | 9/29/16 | 8:40                                                                                                                            | G | GW                              | 3 | 1                      | 1 |                          |  |
| MW-107SL-092916                                                                                                                                                                  | 9/29/16 | 10:15                                                                                                                           | G | GW                              | 1 | 1                      | 1 |                          |  |
| MW-108WT-092916                                                                                                                                                                  | 9/29/16 | 11:10                                                                                                                           | G | GW                              | 5 | 1                      | 1 |                          |  |
| MW-108S2-092916                                                                                                                                                                  | 9/29/16 | 11:45                                                                                                                           | G | GW                              | 1 | 1                      | 1 |                          |  |
| Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other                                                                                                          |         |                                                                                                                                 |   |                                 |   |                        |   |                          |  |
| Possible Hazard Identification: Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.                                   |         |                                                                                                                                 |   |                                 |   |                        |   |                          |  |
| <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown |         |                                                                                                                                 |   |                                 |   |                        |   |                          |  |
| Special Instructions/QC Requirements & Comments:                                                                                                                                 |         |                                                                                                                                 |   |                                 |   |                        |   |                          |  |
| Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                   |         | Custody Seal No.:                                                                                                               |   | Cooler Temp. (°C): Obs'd: _____ |   | Corr'd: _____          |   | Therm ID No.:            |  |
| Relinquished by: [Signature]                                                                                                                                                     |         | Company: ARCADIS                                                                                                                |   | Received by: [Signature]        |   | Company: TAD           |   | Date/Time: 9/30/16 6:31  |  |
| Relinquished by: [Signature]                                                                                                                                                     |         | Company: TAD                                                                                                                    |   | Received by: [Signature]        |   | Company: TAD           |   | Date/Time: 10/11/16 9:30 |  |
| Relinquished by:                                                                                                                                                                 |         | Company:                                                                                                                        |   | Received in Laboratory by:      |   | Company:               |   | Date/Time:               |  |





Temperature readings: \_\_\_\_\_

| <u>Client Sample ID</u> | <u>Lab ID</u> | <u>Container Type</u>              | <u>Container</u><br><u>pH</u> | <u>Preservative</u><br><u>Added (mls)</u> | <u>Lot #</u> |
|-------------------------|---------------|------------------------------------|-------------------------------|-------------------------------------------|--------------|
| MW-149WT_092916         | 240-70259-A-1 | Plastic 500ml - with Sulfuric Acid | <2                            | _____                                     | _____        |
| MW-149WT_092916         | 240-70259-B-1 | Plastic 500ml - with Sulfuric Acid | <2                            | _____                                     | _____        |
| MW-149WT_092916         | 240-70259-C-1 | Plastic 500ml - with Sulfuric Acid | <2                            | _____                                     | _____        |
| MW-149WT_092916         | 240-70259-D-1 | Plastic 500ml - with Sulfuric Acid | <2                            | _____                                     | _____        |
| MW-149WT_092916         | 240-70259-E-1 | Plastic 500ml - with Nitric Acid   | <2                            | _____                                     | _____        |
| MW-149WT_092916         | 240-70259-F-1 | Plastic 500ml - with Nitric Acid   | <2                            | _____                                     | _____        |
| MW-149WT_092916         | 240-70259-G-1 | Plastic 500ml - with Nitric Acid   | <2                            | _____                                     | _____        |
| DUP-03_092916           | 240-70259-A-2 | Plastic 500ml - with Sulfuric Acid | <2                            | _____                                     | _____        |
| DUP-03_092916           | 240-70259-B-2 | Plastic 500ml - with Nitric Acid   | <2                            | _____                                     | _____        |
| MW-107WT_092916         | 240-70259-A-3 | Plastic 500ml - with Sulfuric Acid | <2                            | _____                                     | _____        |
| MW-107WT_092916         | 240-70259-B-3 | Plastic 500ml - with Sulfuric Acid | <2                            | _____                                     | _____        |
| MW-107WT_092916         | 240-70259-C-3 | Plastic 500ml - with Nitric Acid   | <2                            | _____                                     | _____        |
| MW-107S1_092916         | 240-70259-A-4 | Plastic 500ml - with Sulfuric Acid | <2                            | _____                                     | _____        |
| MW-108WT_092916         | 240-70259-A-5 | Plastic 500ml - with Sulfuric Acid | <2                            | _____                                     | _____        |
| MW-108WT_092916         | 240-70259-B-5 | Plastic 500ml - with Sulfuric Acid | <2                            | _____                                     | _____        |
| MW-108WT_092916         | 240-70259-C-5 | Plastic 500ml - with Nitric Acid   | <2                            | _____                                     | _____        |
| MW-108S2_092916         | 240-70259-A-6 | Plastic 500ml - with Sulfuric Acid | <2                            | _____                                     | _____        |

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-70269-1

Client Project/Site: RACER Saginaw Malleable Iron

For:

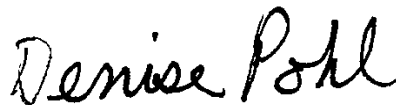
ARCADIS U.S. Inc

10559 Citation Drive

Suite 100

Brighton, Michigan 48116

Attn: Scott Clearwater



Authorized for release by:

10/25/2016 3:28:51 PM

Denise Pohl, Project Manager II

(330)966-9789

[denise.pohl@testamericainc.com](mailto:denise.pohl@testamericainc.com)

### LINKS

Review your project  
results through

TotalAccess

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[www.testamericainc.com](http://www.testamericainc.com)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Definitions/Glossary

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70269-1

## Qualifiers

### GC Semi VOA

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| U         | Indicates the analyte was analyzed for but not detected. |

### Metals

| Qualifier | Qualifier Description                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------|
| ^         | ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits. |
| U         | Indicates the analyte was analyzed for but not detected.                                                       |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

### General Chemistry

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| U         | Indicates the analyte was analyzed for but not detected. |

## Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| α              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery                                                                                            |
| CFL            | Contains Free Liquid                                                                                        |
| CNF            | Contains no Free Liquid                                                                                     |
| DER            | Duplicate error ratio (normalized absolute difference)                                                      |
| Dil Fac        | Dilution Factor                                                                                             |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision level concentration                                                                                |
| MDA            | Minimum detectable activity                                                                                 |
| EDL            | Estimated Detection Limit                                                                                   |
| MDC            | Minimum detectable concentration                                                                            |
| MDL            | Method Detection Limit                                                                                      |
| ML             | Minimum Level (Dioxin)                                                                                      |
| NC             | Not Calculated                                                                                              |
| ND             | Not detected at the reporting limit (or MDL or EDL if shown)                                                |
| PQL            | Practical Quantitation Limit                                                                                |
| QC             | Quality Control                                                                                             |
| RER            | Relative error ratio                                                                                        |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)                                                         |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                         |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                       |

# Case Narrative

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70269-1

**Job ID: 240-70269-1**

**Laboratory: TestAmerica Canton**

## Narrative

### CASE NARRATIVE

**Client: ARCADIS U.S. Inc**

**Project: RACER Saginaw Malleable Iron**

**Report Number: 240-70269-1**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

#### **RECEIPT**

The samples were received on 10/1/2016 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.2° C.

#### **DISSOLVED POLYCHLORINATED BIPHENYLS (PCBS)**

Sample MW-114WT\_092916-D (240-70269-4) was analyzed for dissolved polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082. The samples were prepared on 10/06/2016 and analyzed on 10/08/2016.

All of the samples in this data set analyzed for PCBs were subjected to the sulfuric acid cleanup procedure before instrumental analysis, per EPA Method 3665A. All of the samples in this data set analyzed for PCBs were subjected to the sulfuric acid cleanup procedure before instrumental analysis, per EPA Method 3665A.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### **POLYCHLORINATED BIPHENYLS (PCBS)**

Sample MW-114WT\_092916 (240-70269-1) was analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082. The samples were prepared on 10/04/2016 and analyzed on 10/06/2016.

## Case Narrative

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70269-1

### Job ID: 240-70269-1 (Continued)

#### Laboratory: TestAmerica Canton (Continued)

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are diluted out and no corrective action is required. All of the samples in this data set analyzed for PCBs were subjected to the sulfuric acid cleanup procedure before instrumental analysis, per EPA Method 3665A.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### **TOTAL RECOVERABLE METALS (ICPMS)**

Samples MW-114WT\_092916 (240-70269-1) and EB-02\_092916 (240-70269-3) were analyzed for total recoverable metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were prepared on 10/04/2016 and analyzed on 10/13/2016 and 10/14/2016.

Manganese was detected in method blank MB 240-249729/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Method(s) 6020: Some requested practical quantitation limits (PQLs) on the following samples fall below the laboratory's verified standard quantitation limit: MW-114WT\_092916 (240-70269-1). The continuing calibration blanks and method blanks may not support the lower PQL.

Method(s) 6020: Some requested practical quantitation limits (PQLs) on the following samples fall below the laboratory's verified standard quantitation limit: EB-02\_092916 (240-70269-3). The continuing calibration blanks and method blanks may not support the lower PQL.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### **TOTAL PHOSPHORUS**

Sample MW-114WT\_092916 (240-70269-1) was analyzed for total phosphorus in accordance with SM 4500 P E. The samples were analyzed on 10/06/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### **AMMONIA**

Samples MW-114WT\_092916 (240-70269-1) and MW-114S2\_092916 (240-70269-2) were analyzed for ammonia in accordance with SM 4500 NH3 D. The samples were analyzed on 10/13/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.



## Method Summary

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70269-1

| Method          | Method Description                                     | Protocol | Laboratory |
|-----------------|--------------------------------------------------------|----------|------------|
| 8082            | Polychlorinated Biphenyls (PCBs) by Gas Chromatography | SW846    | TAL CAN    |
| 6020            | Metals (ICP/MS)                                        | SW846    | TAL CAN    |
| SM 4500 NH3 D   | Ammonia                                                | SM       | TAL CAN    |
| SM4500 P E-1999 | Phosphorus                                             | SM       | TAL CAN    |

### Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater",  
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

### Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

## Sample Summary

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70269-1

| Lab Sample ID | Client Sample ID  | Matrix | Collected      | Received       |
|---------------|-------------------|--------|----------------|----------------|
| 240-70269-1   | MW-114WT_092916   | Water  | 09/29/16 16:35 | 10/01/16 09:30 |
| 240-70269-2   | MW-114S2_092916   | Water  | 09/29/16 17:10 | 10/01/16 09:30 |
| 240-70269-3   | EB-02_092916      | Water  | 09/29/16 17:40 | 10/01/16 09:30 |
| 240-70269-4   | MW-114WT_092916-D | Water  | 09/29/16 16:35 | 10/01/16 09:30 |

# Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70269-1

**Client Sample ID: MW-114WT\_092916**

**Lab Sample ID: 240-70269-1**

**Date Collected: 09/29/16 16:35**

**Matrix: Water**

**Date Received: 10/01/16 09:30**

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte      | Result | Qualifier | RL    | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--------------|--------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Aroclor-1016 | 0.095  | U         | 0.095 | 0.048 | ug/L |   | 10/04/16 09:00 | 10/06/16 14:24 | 1       |
| Aroclor-1221 | 0.095  | U         | 0.095 | 0.086 | ug/L |   | 10/04/16 09:00 | 10/06/16 14:24 | 1       |
| Aroclor-1232 | 0.095  | U         | 0.095 | 0.067 | ug/L |   | 10/04/16 09:00 | 10/06/16 14:24 | 1       |
| Aroclor-1242 | 0.095  | U         | 0.095 | 0.057 | ug/L |   | 10/04/16 09:00 | 10/06/16 14:24 | 1       |
| Aroclor-1248 | 0.095  | U         | 0.095 | 0.048 | ug/L |   | 10/04/16 09:00 | 10/06/16 14:24 | 1       |
| Aroclor-1254 | 0.095  | U         | 0.095 | 0.029 | ug/L |   | 10/04/16 09:00 | 10/06/16 14:24 | 1       |
| Aroclor-1260 | 0.095  | U         | 0.095 | 0.038 | ug/L |   | 10/04/16 09:00 | 10/06/16 14:24 | 1       |

| Surrogate              | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|----------------|----------------|---------|
| Tetrachloro-m-xylene   | 70        |           | 21 - 120 | 10/04/16 09:00 | 10/06/16 14:24 | 1       |
| DCB Decachlorobiphenyl | 46        |           | 10 - 120 | 10/04/16 09:00 | 10/06/16 14:24 | 1       |

## Method: 6020 - Metals (ICP/MS) - Total Recoverable

| Analyte   | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Manganese | 1100   | ^         | 1.0 | 0.25 | ug/L |   | 10/04/16 14:00 | 10/13/16 02:22 | 1       |
| Thallium  | 1.0    | U         | 1.0 | 0.28 | ug/L |   | 10/04/16 14:00 | 10/13/16 02:22 | 1       |

## General Chemistry

| Analyte               | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Ammonia (as N)        | 0.20   | U         | 0.20 | 0.033 | mg/L |   |          | 10/13/16 15:20 | 1       |
| Total Phosphorus as P | 0.10   | U         | 0.10 | 0.049 | mg/L |   |          | 10/06/16 13:53 | 1       |

TestAmerica Canton

## Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70269-1

**Client Sample ID: MW-114S2\_092916**

**Lab Sample ID: 240-70269-2**

**Date Collected: 09/29/16 17:10**

**Matrix: Water**

**Date Received: 10/01/16 09:30**

### General Chemistry

| Analyte        | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Ammonia (as N) | 2.7    |           | 0.20 | 0.033 | mg/L | - |          | 10/13/16 15:31 | 1       |

## Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70269-1

**Client Sample ID: EB-02\_092916**

**Lab Sample ID: 240-70269-3**

**Date Collected: 09/29/16 17:40**

**Matrix: Water**

**Date Received: 10/01/16 09:30**

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

| Analyte   | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Arsenic   | 2.0    | U         | 2.0 | 0.35 | ug/L |   | 10/04/16 14:00 | 10/14/16 03:23 | 1       |
| Manganese | 1.0    | U ^       | 1.0 | 0.25 | ug/L |   | 10/04/16 14:00 | 10/14/16 03:23 | 1       |
| Thallium  | 1.0    | U         | 1.0 | 0.28 | ug/L |   | 10/04/16 14:00 | 10/14/16 03:23 | 1       |

# Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70269-1

**Client Sample ID: MW-114WT\_092916-D**

**Lab Sample ID: 240-70269-4**

**Date Collected: 09/29/16 16:35**

**Matrix: Water**

**Date Received: 10/01/16 09:30**

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - Dissolved

| Analyte      | Result | Qualifier | RL    | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--------------|--------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Aroclor-1016 | 0.095  | U         | 0.095 | 0.048 | ug/L |   | 10/06/16 13:30 | 10/08/16 12:45 | 1       |
| Aroclor-1221 | 0.095  | U         | 0.095 | 0.086 | ug/L |   | 10/06/16 13:30 | 10/08/16 12:45 | 1       |
| Aroclor-1232 | 0.095  | U         | 0.095 | 0.067 | ug/L |   | 10/06/16 13:30 | 10/08/16 12:45 | 1       |
| Aroclor-1242 | 0.095  | U         | 0.095 | 0.057 | ug/L |   | 10/06/16 13:30 | 10/08/16 12:45 | 1       |
| Aroclor-1248 | 0.095  | U         | 0.095 | 0.048 | ug/L |   | 10/06/16 13:30 | 10/08/16 12:45 | 1       |
| Aroclor-1254 | 0.095  | U         | 0.095 | 0.029 | ug/L |   | 10/06/16 13:30 | 10/08/16 12:45 | 1       |
| Aroclor-1260 | 0.095  | U         | 0.095 | 0.038 | ug/L |   | 10/06/16 13:30 | 10/08/16 12:45 | 1       |

| Surrogate              | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|----------------|----------------|---------|
| Tetrachloro-m-xylene   | 70        |           | 21 - 120 | 10/06/16 13:30 | 10/08/16 12:45 | 1       |
| DCB Decachlorobiphenyl | 36        |           | 10 - 120 | 10/06/16 13:30 | 10/08/16 12:45 | 1       |

## Surrogate Summary

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70269-1

### Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water

Prep Type: Total/NA

#### Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID       | Client Sample ID   | TCX2<br>(21-120) | DCB2<br>(10-120) |
|---------------------|--------------------|------------------|------------------|
| 240-70269-1         | MW-114WT_092916    | 70               | 46               |
| LCS 240-249660/21-A | Lab Control Sample | 68               | 80               |
| LCS 240-250119/11-A | Lab Control Sample | 71               | 68               |
| MB 240-249660/20-A  | Method Blank       | 53               | 78               |
| MB 240-250119/10-A  | Method Blank       | 74               | 81               |

#### Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

### Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water

Prep Type: Dissolved

#### Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID | Client Sample ID  | TCX2<br>(21-120) | DCB2<br>(10-120) |
|---------------|-------------------|------------------|------------------|
| 240-70269-4   | MW-114WT_092916-D | 70               | 36               |

#### Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl



# QC Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70269-1

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-249660/20-A

Matrix: Water

Analysis Batch: 250052

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 249660

| Analyte      | MB Result | MB Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--------------|-----------|--------------|------|-------|------|---|----------------|----------------|---------|
| Aroclor-1016 | 0.10      | U            | 0.10 | 0.050 | ug/L |   | 10/04/16 09:00 | 10/06/16 07:57 | 1       |
| Aroclor-1221 | 0.10      | U            | 0.10 | 0.090 | ug/L |   | 10/04/16 09:00 | 10/06/16 07:57 | 1       |
| Aroclor-1232 | 0.10      | U            | 0.10 | 0.070 | ug/L |   | 10/04/16 09:00 | 10/06/16 07:57 | 1       |
| Aroclor-1242 | 0.10      | U            | 0.10 | 0.060 | ug/L |   | 10/04/16 09:00 | 10/06/16 07:57 | 1       |
| Aroclor-1248 | 0.10      | U            | 0.10 | 0.050 | ug/L |   | 10/04/16 09:00 | 10/06/16 07:57 | 1       |
| Aroclor-1254 | 0.10      | U            | 0.10 | 0.030 | ug/L |   | 10/04/16 09:00 | 10/06/16 07:57 | 1       |
| Aroclor-1260 | 0.10      | U            | 0.10 | 0.040 | ug/L |   | 10/04/16 09:00 | 10/06/16 07:57 | 1       |

| Surrogate              | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------------|--------------|----------|----------------|----------------|---------|
| Tetrachloro-m-xylene   | 53           |              | 21 - 120 | 10/04/16 09:00 | 10/06/16 07:57 | 1       |
| DCB Decachlorobiphenyl | 78           |              | 10 - 120 | 10/04/16 09:00 | 10/06/16 07:57 | 1       |

Lab Sample ID: LCS 240-249660/21-A

Matrix: Water

Analysis Batch: 250052

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 249660

| Analyte      | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits   |
|--------------|-------------|------------|---------------|------|---|------|----------|
| Aroclor-1016 | 2.50        | 1.76       |               | ug/L |   | 70   | 32 - 120 |
| Aroclor-1260 | 2.50        | 2.19       |               | ug/L |   | 87   | 36 - 120 |

| Surrogate              | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------|---------------|---------------|----------|
| Tetrachloro-m-xylene   | 68            |               | 21 - 120 |
| DCB Decachlorobiphenyl | 80            |               | 10 - 120 |

Lab Sample ID: MB 240-250119/10-A

Matrix: Water

Analysis Batch: 250441

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 250119

| Analyte      | MB Result | MB Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--------------|-----------|--------------|------|-------|------|---|----------------|----------------|---------|
| Aroclor-1016 | 0.10      | U            | 0.10 | 0.050 | ug/L |   | 10/06/16 09:38 | 10/08/16 13:53 | 1       |
| Aroclor-1221 | 0.10      | U            | 0.10 | 0.090 | ug/L |   | 10/06/16 09:38 | 10/08/16 13:53 | 1       |
| Aroclor-1232 | 0.10      | U            | 0.10 | 0.070 | ug/L |   | 10/06/16 09:38 | 10/08/16 13:53 | 1       |
| Aroclor-1242 | 0.10      | U            | 0.10 | 0.060 | ug/L |   | 10/06/16 09:38 | 10/08/16 13:53 | 1       |
| Aroclor-1248 | 0.10      | U            | 0.10 | 0.050 | ug/L |   | 10/06/16 09:38 | 10/08/16 13:53 | 1       |
| Aroclor-1254 | 0.10      | U            | 0.10 | 0.030 | ug/L |   | 10/06/16 09:38 | 10/08/16 13:53 | 1       |
| Aroclor-1260 | 0.10      | U            | 0.10 | 0.040 | ug/L |   | 10/06/16 09:38 | 10/08/16 13:53 | 1       |

| Surrogate              | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------------|--------------|----------|----------------|----------------|---------|
| Tetrachloro-m-xylene   | 74           |              | 21 - 120 | 10/06/16 09:38 | 10/08/16 13:53 | 1       |
| DCB Decachlorobiphenyl | 81           |              | 10 - 120 | 10/06/16 09:38 | 10/08/16 13:53 | 1       |

Lab Sample ID: LCS 240-250119/11-A

Matrix: Water

Analysis Batch: 250441

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 250119

| Analyte      | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits   |
|--------------|-------------|------------|---------------|------|---|------|----------|
| Aroclor-1016 | 2.50        | 1.93       |               | ug/L |   | 77   | 32 - 120 |

TestAmerica Canton

# QC Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70269-1

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 240-250119/11-A

Matrix: Water

Analysis Batch: 250441

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 250119

| Analyte                | Spike Added   | LCS Result    | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------|---------------|---------------|---------------|------|---|------|--------------|
| Aroclor-1260           | 2.50          | 1.85          |               | ug/L |   | 74   | 36 - 120     |
| Surrogate              | LCS %Recovery | LCS Qualifier | Limits        |      |   |      |              |
| Tetrachloro-m-xylene   | 71            |               | 21 - 120      |      |   |      |              |
| DCB Decachlorobiphenyl | 68            |               | 10 - 120      |      |   |      |              |

## Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 240-249703/1-A

Matrix: Water

Analysis Batch: 251370

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 249703

| Analyte   | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|-----------|--------------|-----|------|------|---|----------------|----------------|---------|
| Manganese | 1.0       | U            | 1.0 | 0.25 | ug/L |   | 10/04/16 14:00 | 10/13/16 15:47 | 1       |
| Thallium  | 1.0       | U            | 1.0 | 0.28 | ug/L |   | 10/04/16 14:00 | 10/13/16 15:47 | 1       |

Lab Sample ID: LCS 240-249703/2-A

Matrix: Water

Analysis Batch: 251370

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 249703

| Analyte   | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------|-------------|------------|---------------|------|---|------|--------------|
| Manganese | 1000        | 1040       |               | ug/L |   | 104  | 80 - 120     |
| Thallium  | 250         | 263        |               | ug/L |   | 105  | 80 - 120     |

Lab Sample ID: MB 240-249729/1-A

Matrix: Water

Analysis Batch: 251370

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 249729

| Analyte   | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|-----------|--------------|-----|------|------|---|----------------|----------------|---------|
| Arsenic   | 2.0       | U            | 2.0 | 0.35 | ug/L |   | 10/04/16 14:00 | 10/14/16 02:28 | 1       |
| Manganese | 0.487     | J ^          | 1.0 | 0.25 | ug/L |   | 10/04/16 14:00 | 10/14/16 02:28 | 1       |
| Thallium  | 1.0       | U            | 1.0 | 0.28 | ug/L |   | 10/04/16 14:00 | 10/14/16 02:28 | 1       |

Lab Sample ID: LCS 240-249729/24-A

Matrix: Water

Analysis Batch: 251370

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 249729

| Analyte   | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------|-------------|------------|---------------|------|---|------|--------------|
| Arsenic   | 1000        | 1010       |               | ug/L |   | 101  | 80 - 120     |
| Manganese | 1000        | 1090       | ^             | ug/L |   | 109  | 80 - 120     |
| Thallium  | 250         | 269        |               | ug/L |   | 107  | 80 - 120     |

TestAmerica Canton

# QC Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70269-1

## Method: SM 4500 NH3 D - Ammonia

Lab Sample ID: MB 240-251320/7

Matrix: Water

Analysis Batch: 251320

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte        | MB<br>Result | MB<br>Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------|--------------|-----------------|------|-------|------|---|----------|----------------|---------|
| Ammonia (as N) | 0.20         | U               | 0.20 | 0.033 | mg/L | - |          | 10/13/16 12:34 | 1       |

Lab Sample ID: LCS 240-251320/8

Matrix: Water

Analysis Batch: 251320

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte        | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|----------------|----------------|---------------|------------------|------|---|------|-----------------|
| Ammonia (as N) | 3.84           | 3.76          |                  | mg/L | - | 98   | 85 - 114        |

## Method: SM4500 P E-1999 - Phosphorus

Lab Sample ID: MB 240-250205/3

Matrix: Water

Analysis Batch: 250205

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte               | MB<br>Result | MB<br>Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------|--------------|-----------------|------|-------|------|---|----------|----------------|---------|
| Total Phosphorus as P | 0.10         | U               | 0.10 | 0.049 | mg/L | - |          | 10/06/16 13:53 | 1       |

Lab Sample ID: LCS 240-250205/4

Matrix: Water

Analysis Batch: 250205

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte               | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|-----------------------|----------------|---------------|------------------|------|---|------|-----------------|
| Total Phosphorus as P | 0.665          | 0.682         |                  | mg/L | - | 103  | 77 - 120        |

TestAmerica Canton

# QC Association Summary

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70269-1

## GC Semi VOA

### Prep Batch: 249660

| Lab Sample ID       | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|---------------------|--------------------|-----------|--------|--------|------------|
| 240-70269-1         | MW-114WT_092916    | Total/NA  | Water  | 3520C  |            |
| MB 240-249660/20-A  | Method Blank       | Total/NA  | Water  | 3520C  |            |
| LCS 240-249660/21-A | Lab Control Sample | Total/NA  | Water  | 3520C  |            |

### Analysis Batch: 250052

| Lab Sample ID       | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|---------------------|--------------------|-----------|--------|--------|------------|
| 240-70269-1         | MW-114WT_092916    | Total/NA  | Water  | 8082   | 249660     |
| MB 240-249660/20-A  | Method Blank       | Total/NA  | Water  | 8082   | 249660     |
| LCS 240-249660/21-A | Lab Control Sample | Total/NA  | Water  | 8082   | 249660     |

### Prep Batch: 250119

| Lab Sample ID       | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|---------------------|--------------------|-----------|--------|--------|------------|
| 240-70269-4         | MW-114WT_092916-D  | Dissolved | Water  | 3520C  |            |
| MB 240-250119/10-A  | Method Blank       | Total/NA  | Water  | 3520C  |            |
| LCS 240-250119/11-A | Lab Control Sample | Total/NA  | Water  | 3520C  |            |

### Analysis Batch: 250441

| Lab Sample ID       | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|---------------------|--------------------|-----------|--------|--------|------------|
| 240-70269-4         | MW-114WT_092916-D  | Dissolved | Water  | 8082   | 250119     |
| MB 240-250119/10-A  | Method Blank       | Total/NA  | Water  | 8082   | 250119     |
| LCS 240-250119/11-A | Lab Control Sample | Total/NA  | Water  | 8082   | 250119     |

## Metals

### Prep Batch: 249703

| Lab Sample ID      | Client Sample ID   | Prep Type         | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 240-70269-1        | MW-114WT_092916    | Total Recoverable | Water  | 3005A  |            |
| MB 240-249703/1-A  | Method Blank       | Total Recoverable | Water  | 3005A  |            |
| LCS 240-249703/2-A | Lab Control Sample | Total Recoverable | Water  | 3005A  |            |

### Prep Batch: 249729

| Lab Sample ID       | Client Sample ID   | Prep Type         | Matrix | Method | Prep Batch |
|---------------------|--------------------|-------------------|--------|--------|------------|
| 240-70269-3         | EB-02_092916       | Total Recoverable | Water  | 3005A  |            |
| MB 240-249729/1-A   | Method Blank       | Total Recoverable | Water  | 3005A  |            |
| LCS 240-249729/24-A | Lab Control Sample | Total Recoverable | Water  | 3005A  |            |

### Analysis Batch: 251153

| Lab Sample ID | Client Sample ID | Prep Type         | Matrix | Method | Prep Batch |
|---------------|------------------|-------------------|--------|--------|------------|
| 240-70269-1   | MW-114WT_092916  | Total Recoverable | Water  | 6020   | 249703     |

### Analysis Batch: 251370

| Lab Sample ID       | Client Sample ID   | Prep Type         | Matrix | Method | Prep Batch |
|---------------------|--------------------|-------------------|--------|--------|------------|
| 240-70269-3         | EB-02_092916       | Total Recoverable | Water  | 6020   | 249729     |
| MB 240-249703/1-A   | Method Blank       | Total Recoverable | Water  | 6020   | 249703     |
| MB 240-249729/1-A   | Method Blank       | Total Recoverable | Water  | 6020   | 249729     |
| LCS 240-249703/2-A  | Lab Control Sample | Total Recoverable | Water  | 6020   | 249703     |
| LCS 240-249729/24-A | Lab Control Sample | Total Recoverable | Water  | 6020   | 249729     |

TestAmerica Canton

## QC Association Summary

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70269-1

### General Chemistry

#### Analysis Batch: 250205

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method             | Prep Batch |
|------------------|--------------------|-----------|--------|--------------------|------------|
| 240-70269-1      | MW-114WT_092916    | Total/NA  | Water  | SM4500 P<br>E-1999 |            |
| MB 240-250205/3  | Method Blank       | Total/NA  | Water  | SM4500 P<br>E-1999 |            |
| LCS 240-250205/4 | Lab Control Sample | Total/NA  | Water  | SM4500 P<br>E-1999 |            |

#### Analysis Batch: 251320

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method        | Prep Batch |
|------------------|--------------------|-----------|--------|---------------|------------|
| 240-70269-1      | MW-114WT_092916    | Total/NA  | Water  | SM 4500 NH3 D |            |
| 240-70269-2      | MW-114S2_092916    | Total/NA  | Water  | SM 4500 NH3 D |            |
| MB 240-251320/7  | Method Blank       | Total/NA  | Water  | SM 4500 NH3 D |            |
| LCS 240-251320/8 | Lab Control Sample | Total/NA  | Water  | SM 4500 NH3 D |            |

# Lab Chronicle

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70269-1

**Client Sample ID: MW-114WT\_092916**

**Date Collected: 09/29/16 16:35**

**Date Received: 10/01/16 09:30**

**Lab Sample ID: 240-70269-1**

**Matrix: Water**

| Prep Type         | Batch Type | Batch Method    | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA          | Prep       | 3520C           |     |                 | 249660       | 10/04/16 09:00       | JDR     | TAL CAN |
| Total/NA          | Analysis   | 8082            |     | 1               | 250052       | 10/06/16 14:24       | CSC     | TAL CAN |
| Total Recoverable | Prep       | 3005A           |     |                 | 249703       | 10/04/16 14:00       | AJC     | TAL CAN |
| Total Recoverable | Analysis   | 6020            |     | 1               | 251153       | 10/13/16 02:22       | AS1     | TAL CAN |
| Total/NA          | Analysis   | SM 4500 NH3 D   |     | 1               | 251320       | 10/13/16 15:20       | JMB     | TAL CAN |
| Total/NA          | Analysis   | SM4500 P E-1999 |     | 1               | 250205       | 10/06/16 13:53       | JWW     | TAL CAN |

**Client Sample ID: MW-114S2\_092916**

**Date Collected: 09/29/16 17:10**

**Date Received: 10/01/16 09:30**

**Lab Sample ID: 240-70269-2**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method  | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | SM 4500 NH3 D |     | 1               | 251320       | 10/13/16 15:31       | JMB     | TAL CAN |

**Client Sample ID: EB-02\_092916**

**Date Collected: 09/29/16 17:40**

**Date Received: 10/01/16 09:30**

**Lab Sample ID: 240-70269-3**

**Matrix: Water**

| Prep Type         | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 3005A        |     |                 | 249729       | 10/04/16 14:00       | AJC     | TAL CAN |
| Total Recoverable | Analysis   | 6020         |     | 1               | 251370       | 10/14/16 03:23       | AS1     | TAL CAN |

**Client Sample ID: MW-114WT\_092916-D**

**Date Collected: 09/29/16 16:35**

**Date Received: 10/01/16 09:30**

**Lab Sample ID: 240-70269-4**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Dissolved | Prep       | 3520C        |     |                 | 250119       | 10/06/16 13:30       | JDR     | TAL CAN |
| Dissolved | Analysis   | 8082         |     | 1               | 250441       | 10/08/16 12:45       | CSC     | TAL CAN |

## Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

# Certification Summary

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70269-1

## Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority             | Program       | EPA Region | Certification ID | Expiration Date |
|-----------------------|---------------|------------|------------------|-----------------|
| California            | NELAP         | 9          | 01144CA          | 06-30-14 *      |
| California            | State Program | 9          | 2927             | 04-30-17        |
| Connecticut           | State Program | 1          | PH-0590          | 12-31-17        |
| Florida               | NELAP         | 4          | E87225           | 06-30-17        |
| Illinois              | NELAP         | 5          | 200004           | 07-31-17        |
| Kansas                | NELAP         | 7          | E-10336          | 01-31-17        |
| Kentucky (UST)        | State Program | 4          | 58               | 02-23-17        |
| Kentucky (VW)         | State Program | 4          | 98016            | 12-31-16 *      |
| Minnesota             | NELAP         | 5          | 039-999-348      | 12-31-16 *      |
| Minnesota (Petrofund) | State Program | 1          | 3506             | 07-31-17        |
| Nevada                | State Program | 9          | OH-000482008A    | 07-31-17        |
| New Jersey            | NELAP         | 2          | OH001            | 06-30-17        |
| New York              | NELAP         | 2          | 10975            | 03-31-17        |
| Ohio VAP              | State Program | 5          | CL0024           | 09-14-17        |
| Oregon                | NELAP         | 10         | 4062             | 02-23-17        |
| Pennsylvania          | NELAP         | 3          | 68-00340         | 08-31-17        |
| Texas                 | NELAP         | 6          | T104704517-15-5  | 08-31-17        |
| USDA                  | Federal       |            | P330-13-00319    | 11-26-16 *      |
| Virginia              | NELAP         | 3          | 460175           | 09-14-17        |
| Washington            | State Program | 10         | C971             | 01-12-17        |
| West Virginia DEP     | State Program | 3          | 210              | 12-31-16 *      |
| Wisconsin             | State Program | 5          | 999518190        | 08-31-17        |

\* Certification renewal pending - certification considered valid.

TestAmerica Canton



[illegible]

| TestAmerica Canton Sample Receipt Form/Narrative                                                      |                           |                                        |  | Login # : _____ |
|-------------------------------------------------------------------------------------------------------|---------------------------|----------------------------------------|--|-----------------|
| <b>Canton Facility</b>                                                                                |                           |                                        |  |                 |
| Client <u>Aradys</u>                                                                                  | Site Name _____           | Cooler unpacked by: <u>[Signature]</u> |  |                 |
| Cooler Received on <u>10/01/16</u>                                                                    | Opened on <u>10/01/16</u> |                                        |  |                 |
| FedEx: 1 <sup>st</sup> Grd <u>Exp</u> UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____ |                           |                                        |  |                 |
| <b>Receipt After-hours: Drop-off Date/Time</b> _____ <b>Storage Location</b> _____                    |                           |                                        |  |                 |
| TestAmerica Cooler # _____ Foam Box <u>Client Cooler</u> Box _____ Other _____                        |                           |                                        |  |                 |
| Packing material used: <u>Bubble Wrap</u> Foam Plastic Bag None Other _____                           |                           |                                        |  |                 |
| COOLANT: <u>Wet Ice</u> Blue Ice Dry Ice Water None                                                   |                           |                                        |  |                 |
| 1. Cooler temperature upon receipt <input type="checkbox"/> See Multiple Cooler Form                  |                           |                                        |  |                 |
| IR GUN# IR-8 (CF +0.4 °C) Observed Cooler Temp. <u>0.8</u> °C Corrected Cooler Temp. <u>1.2</u> °C    |                           |                                        |  |                 |
| IR GUN #36 (CF +1.3 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C                |                           |                                        |  |                 |
| 2. Were custody seals on the outside of the cooler(s)? If Yes Quantity <u>1</u> <u>Yes</u> No         |                           |                                        |  |                 |
| -Were custody seals on the outside of the cooler(s) signed & dated? <u>Yes</u> No NA                  |                           |                                        |  |                 |
| -Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? <u>Yes</u> No                        |                           |                                        |  |                 |
| 3. Shippers' packing slip attached to the cooler(s)? <u>Yes</u> No                                    |                           |                                        |  |                 |
| 4. Did custody papers accompany the sample(s)? <u>Yes</u> No                                          |                           |                                        |  |                 |
| 5. Were the custody papers relinquished & signed in the appropriate place? <u>Yes</u> No              |                           |                                        |  |                 |
| 6. Was/were the person(s) who collected the samples clearly identified on the COC? <u>Yes</u> No      |                           |                                        |  |                 |
| 7. Did all bottles arrive in good condition (Unbroken)? <u>Yes</u> No                                 |                           |                                        |  |                 |
| 8. Could all bottle labels be reconciled with the COC? <u>Yes</u> No                                  |                           |                                        |  |                 |
| 9. Were correct bottle(s) used for the test(s) indicated? <u>Yes</u> No                               |                           |                                        |  |                 |
| 10. Sufficient quantity received to perform indicated analyses? <u>Yes</u> No                         |                           |                                        |  |                 |
| 11. Are these work share samples? <u>Yes</u> No                                                       |                           |                                        |  |                 |
| If yes, Questions 11-15 have been checked at the originating laboratory.                              |                           |                                        |  |                 |
| 11. Were sample(s) at the correct pH upon receipt? <u>Yes</u> No NA pH Strip Lot# <u>HC574756</u>     |                           |                                        |  |                 |
| 12. Were VOAs on the COC? <u>Yes</u> No                                                               |                           |                                        |  |                 |
| 13. Were air bubbles >6 mm in any VOA vials? <u>Yes</u> No NA                                         |                           |                                        |  |                 |
| 14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ <u>Yes</u> No               |                           |                                        |  |                 |
| 15. Was a LL Hg or Me Hg trip blank present? <u>Yes</u> No                                            |                           |                                        |  |                 |
| Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____                              |                           |                                        |  |                 |
| Concerning _____                                                                                      |                           |                                        |  |                 |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| <b>14. CHAIN OF CUSTODY &amp; SAMPLE DISCREPANCIES</b><br><div style="border: 1px solid black; height: 15px; margin-top: 5px;"></div> <div style="border: 1px solid black; height: 15px; margin-top: 5px;"></div> <div style="border: 1px solid black; height: 15px; margin-top: 5px;"></div> <div style="border: 1px solid black; height: 15px; margin-top: 5px;"></div> <div style="border: 1px solid black; height: 15px; margin-top: 5px;"></div> <div style="border: 1px solid black; height: 15px; margin-top: 5px;"></div> <div style="border: 1px solid black; height: 15px; margin-top: 5px;"></div> <div style="border: 1px solid black; height: 15px; margin-top: 5px;"></div> <div style="border: 1px solid black; height: 15px; margin-top: 5px;"></div> <div style="border: 1px solid black; height: 15px; margin-top: 5px;"></div> | <b>Samples processed by:</b><br><div style="border: 1px solid black; height: 15px; margin-top: 5px;"></div> |
| <b>15. SAMPLE CONDITION</b><br>Sample(s) _____ were received after the recommended holding time had expired.<br>Sample(s) _____ were received in a broken container.<br>Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                             |
| <b>16. SAMPLE PRESERVATION</b><br>Sample(s) _____ were further preserved in the laboratory.<br>Time preserved: _____ Preservative(s) added/Lot number(s): _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                             |

Temperature readings: \_\_\_\_\_

| <u>Client Sample ID</u> | <u>Lab ID</u> | <u>Container Type</u>              | <u>Container</u><br><u>pH</u> | <u>Preservative</u><br><u>Added (mls)</u> | <u>Lot #</u> |
|-------------------------|---------------|------------------------------------|-------------------------------|-------------------------------------------|--------------|
| MW-114WT-092916         | 240-70269-A-1 | Plastic 500ml - with Sulfuric Acid | <2                            | _____                                     | _____        |
| MW-114WT-092916         | 240-70269-B-1 | Plastic 500ml - with Sulfuric Acid | <2                            | _____                                     | _____        |
| MW-114WT-092916         | 240-70269-C-1 | Plastic 500ml - with Nitric Acid   | <2                            | _____                                     | _____        |
| MW-114S2-092916         | 240-70269-A-2 | Plastic 500ml - with Sulfuric Acid | <2                            | _____                                     | _____        |
| EB-02-092916            | 240-70269-A-3 | Plastic 500ml - with Nitric Acid   | <2                            | _____                                     | _____        |

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-70278-1

Client Project/Site: RACER Saginaw Malleable Iron

For:

ARCADIS U.S. Inc

10559 Citation Drive

Suite 100

Brighton, Michigan 48116

Attn: Scott Clearwater

*Denise Pohl*

Authorized for release by:

10/25/2016 3:33:00 PM

Denise Pohl, Project Manager II

(330)966-9789

[denise.pohl@testamericainc.com](mailto:denise.pohl@testamericainc.com)

### LINKS

Review your project  
results through

**TotalAccess**

Have a Question?



Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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## Definitions/Glossary

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70278-1

### Qualifiers

#### GC Semi VOA

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| U         | Indicates the analyte was analyzed for but not detected. |

#### Metals

| Qualifier | Qualifier Description                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------|
| ^         | ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits. |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| U         | Indicates the analyte was analyzed for but not detected.                                                       |

#### General Chemistry

| Qualifier | Qualifier Description                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------|
| U         | Indicates the analyte was analyzed for but not detected.                                                       |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

### Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| α              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery                                                                                            |
| CFL            | Contains Free Liquid                                                                                        |
| CNF            | Contains no Free Liquid                                                                                     |
| DER            | Duplicate error ratio (normalized absolute difference)                                                      |
| Dil Fac        | Dilution Factor                                                                                             |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision level concentration                                                                                |
| MDA            | Minimum detectable activity                                                                                 |
| EDL            | Estimated Detection Limit                                                                                   |
| MDC            | Minimum detectable concentration                                                                            |
| MDL            | Method Detection Limit                                                                                      |
| ML             | Minimum Level (Dioxin)                                                                                      |
| NC             | Not Calculated                                                                                              |
| ND             | Not detected at the reporting limit (or MDL or EDL if shown)                                                |
| PQL            | Practical Quantitation Limit                                                                                |
| QC             | Quality Control                                                                                             |
| RER            | Relative error ratio                                                                                        |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)                                                         |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                         |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                       |



# Case Narrative

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70278-1

**Job ID: 240-70278-1**

**Laboratory: TestAmerica Canton**

## Narrative

### CASE NARRATIVE

**Client: ARCADIS U.S. Inc**

**Project: RACER Saginaw Malleable Iron**

**Report Number: 240-70278-1**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

### RECEIPT

The samples were received on 10/1/2016 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 0.6° C, 1.4° C and 1.6° C.

### DISSOLVED POLYCHLORINATED BIPHENYLS (PCBS)

Samples MW-186WT\_093016-D (240-70278-4) and MW-185WT\_093016-D (240-70278-5) were analyzed for dissolved polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082. The samples were prepared on 10/04/2016 and 10/06/2016 and analyzed on 10/06/2016 and 10/08/2016.

All of the samples in this data set analyzed for PCBs were subjected to the sulfuric acid cleanup procedure before instrumental analysis, per EPA Method 3665A. All of the samples in this data set analyzed for PCBs were subjected to the sulfuric acid cleanup procedure before instrumental analysis, per EPA Method 3665A.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### POLYCHLORINATED BIPHENYLS (PCBS)

Samples MW-186WT\_093016 (240-70278-1), DUP-04\_093016 (240-70278-2) and MW-185WT\_093016 (240-70278-3) were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082. The samples were prepared on 10/04/2016 and



# Case Narrative

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70278-1

## Job ID: 240-70278-1 (Continued)

### Laboratory: TestAmerica Canton (Continued)

10/05/2016 and analyzed on 10/06/2016 and 10/07/2016.

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are diluted out and no corrective action is required. All of the samples in this data set analyzed for PCBs were subjected to the sulfuric acid cleanup procedure before instrumental analysis, per EPA Method 3665A.

Method(s) 8082: The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: MW-186WT\_093016 (240-70278-1), MW-186WT\_093016 (240-70278-1[MS]), MW-186WT\_093016 (240-70278-1[MSD]) and DUP-04\_093016 (240-70278-2).

2729148  
2103098  
2719938

Method(s) 8082: The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: MW-185WT\_093016 (240-70278-3). 2729149

2103100  
2719942

Method(s) 8082: The continuing calibration verification (CCV) associated with batch 240-250405 recovered above the upper control limit for Aroclor 1242. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: MW-185WT\_093016 (240-70278-3).

Method(s) 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 240-249867.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### TOTAL RECOVERABLE METALS (ICPMS)

Samples MW-186WT\_093016 (240-70278-1) and MW-185WT\_093016 (240-70278-3) were analyzed for total recoverable metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were prepared on 10/04/2016 and analyzed on 10/13/2016.

Method(s) 6020: Some requested practical quantitation limits (PQLs) on the following samples fall below the laboratory's verified standard quantitation limit: MW-186WT\_093016 (240-70278-1) and MW-185WT\_093016 (240-70278-3). The continuing calibration blanks and method blanks may not support the lower PQL.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### TOTAL PHOSPHORUS

Samples MW-186WT\_093016 (240-70278-1) and MW-185WT\_093016 (240-70278-3) were analyzed for total phosphorus in accordance with SM 4500 P E. The samples were analyzed on 10/06/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### AMMONIA

Samples MW-186WT\_093016 (240-70278-1) and MW-185WT\_093016 (240-70278-3) were analyzed for ammonia in accordance with SM 4500 NH3 D. The samples were analyzed on 10/13/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

## Method Summary

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70278-1

| Method          | Method Description                                     | Protocol | Laboratory |
|-----------------|--------------------------------------------------------|----------|------------|
| 8082            | Polychlorinated Biphenyls (PCBs) by Gas Chromatography | SW846    | TAL CAN    |
| 6020            | Metals (ICP/MS)                                        | SW846    | TAL CAN    |
| SM 4500 NH3 D   | Ammonia                                                | SM       | TAL CAN    |
| SM4500 P E-1999 | Phosphorus                                             | SM       | TAL CAN    |

### Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater",  
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

### Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

## Sample Summary

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70278-1

| Lab Sample ID | Client Sample ID  | Matrix | Collected      | Received       |
|---------------|-------------------|--------|----------------|----------------|
| 240-70278-1   | MW-186WT_093016   | Water  | 09/30/16 08:10 | 10/01/16 09:30 |
| 240-70278-2   | DUP-04_093016     | Water  | 09/30/16 00:00 | 10/01/16 09:30 |
| 240-70278-3   | MW-185WT_093016   | Water  | 09/30/16 08:55 | 10/01/16 09:30 |
| 240-70278-4   | MW-186WT_093016-D | Water  | 09/30/16 08:10 | 10/01/16 09:30 |
| 240-70278-5   | MW-185WT_093016-D | Water  | 09/30/16 00:00 | 10/01/16 09:30 |

# Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70278-1

**Client Sample ID: MW-186WT\_093016**

**Lab Sample ID: 240-70278-1**

**Date Collected: 09/30/16 08:10**

**Matrix: Water**

**Date Received: 10/01/16 09:30**

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte      | Result | Qualifier | RL    | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--------------|--------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Aroclor-1016 | 0.095  | U         | 0.095 | 0.048 | ug/L |   | 10/04/16 09:00 | 10/06/16 08:52 | 1       |
| Aroclor-1221 | 0.095  | U         | 0.095 | 0.086 | ug/L |   | 10/04/16 09:00 | 10/06/16 08:52 | 1       |
| Aroclor-1232 | 0.095  | U         | 0.095 | 0.067 | ug/L |   | 10/04/16 09:00 | 10/06/16 08:52 | 1       |
| Aroclor-1242 | 0.095  | U         | 0.095 | 0.057 | ug/L |   | 10/04/16 09:00 | 10/06/16 08:52 | 1       |
| Aroclor-1248 | 0.095  | U         | 0.095 | 0.048 | ug/L |   | 10/04/16 09:00 | 10/06/16 08:52 | 1       |
| Aroclor-1254 | 0.095  | U         | 0.095 | 0.029 | ug/L |   | 10/04/16 09:00 | 10/06/16 08:52 | 1       |
| Aroclor-1260 | 0.095  | U         | 0.095 | 0.038 | ug/L |   | 10/04/16 09:00 | 10/06/16 08:52 | 1       |

| Surrogate              | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|----------------|----------------|---------|
| Tetrachloro-m-xylene   | 49        |           | 21 - 120 | 10/04/16 09:00 | 10/06/16 08:52 | 1       |
| DCB Decachlorobiphenyl | 51        |           | 10 - 120 | 10/04/16 09:00 | 10/06/16 08:52 | 1       |

## Method: 6020 - Metals (ICP/MS) - Total Recoverable

| Analyte   | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Manganese | 1800   | ^         | 1.0 | 0.25 | ug/L |   | 10/04/16 14:00 | 10/13/16 01:01 | 1       |
| Thallium  | 0.39   | J         | 1.0 | 0.28 | ug/L |   | 10/04/16 14:00 | 10/13/16 01:01 | 1       |

## General Chemistry

| Analyte               | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Ammonia (as N)        | 1.5    |           | 0.20 | 0.033 | mg/L |   |          | 10/13/16 15:43 | 1       |
| Total Phosphorus as P | 0.26   |           | 0.10 | 0.049 | mg/L |   |          | 10/06/16 13:53 | 1       |

# Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70278-1

**Client Sample ID: DUP-04\_093016**

**Lab Sample ID: 240-70278-2**

**Date Collected: 09/30/16 00:00**

**Matrix: Water**

**Date Received: 10/01/16 09:30**

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte                | Result    | Qualifier | RL       | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|-------|------|---|----------------|----------------|---------|
| Aroclor-1016           | 0.095     | U         | 0.095    | 0.048 | ug/L |   | 10/04/16 09:00 | 10/06/16 09:48 | 1       |
| Aroclor-1221           | 0.095     | U         | 0.095    | 0.086 | ug/L |   | 10/04/16 09:00 | 10/06/16 09:48 | 1       |
| Aroclor-1232           | 0.095     | U         | 0.095    | 0.067 | ug/L |   | 10/04/16 09:00 | 10/06/16 09:48 | 1       |
| Aroclor-1242           | 0.095     | U         | 0.095    | 0.057 | ug/L |   | 10/04/16 09:00 | 10/06/16 09:48 | 1       |
| Aroclor-1248           | 0.095     | U         | 0.095    | 0.048 | ug/L |   | 10/04/16 09:00 | 10/06/16 09:48 | 1       |
| Aroclor-1254           | 0.095     | U         | 0.095    | 0.029 | ug/L |   | 10/04/16 09:00 | 10/06/16 09:48 | 1       |
| Aroclor-1260           | 0.095     | U         | 0.095    | 0.038 | ug/L |   | 10/04/16 09:00 | 10/06/16 09:48 | 1       |
| Surrogate              | %Recovery | Qualifier | Limits   |       |      |   | Prepared       | Analyzed       | Dil Fac |
| Tetrachloro-m-xylene   | 53        |           | 21 - 120 |       |      |   | 10/04/16 09:00 | 10/06/16 09:48 | 1       |
| DCB Decachlorobiphenyl | 43        |           | 10 - 120 |       |      |   | 10/04/16 09:00 | 10/06/16 09:48 | 1       |

# Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70278-1

**Client Sample ID: MW-185WT\_093016**

**Lab Sample ID: 240-70278-3**

**Date Collected: 09/30/16 08:55**

**Matrix: Water**

**Date Received: 10/01/16 09:30**

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte      | Result | Qualifier | RL    | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--------------|--------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Aroclor-1016 | 0.095  | U         | 0.095 | 0.048 | ug/L |   | 10/05/16 08:23 | 10/07/16 20:03 | 1       |
| Aroclor-1221 | 0.095  | U         | 0.095 | 0.086 | ug/L |   | 10/05/16 08:23 | 10/07/16 20:03 | 1       |
| Aroclor-1232 | 0.095  | U         | 0.095 | 0.067 | ug/L |   | 10/05/16 08:23 | 10/07/16 20:03 | 1       |
| Aroclor-1242 | 0.095  | U         | 0.095 | 0.057 | ug/L |   | 10/05/16 08:23 | 10/07/16 20:03 | 1       |
| Aroclor-1248 | 0.095  | U         | 0.095 | 0.048 | ug/L |   | 10/05/16 08:23 | 10/07/16 20:03 | 1       |
| Aroclor-1254 | 0.095  | U         | 0.095 | 0.029 | ug/L |   | 10/05/16 08:23 | 10/07/16 20:03 | 1       |
| Aroclor-1260 | 0.095  | U         | 0.095 | 0.038 | ug/L |   | 10/05/16 08:23 | 10/07/16 20:03 | 1       |

| Surrogate              | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|----------------|----------------|---------|
| Tetrachloro-m-xylene   | 37        |           | 21 - 120 | 10/05/16 08:23 | 10/07/16 20:03 | 1       |
| DCB Decachlorobiphenyl | 55        |           | 10 - 120 | 10/05/16 08:23 | 10/07/16 20:03 | 1       |

## Method: 6020 - Metals (ICP/MS) - Total Recoverable

| Analyte   | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Manganese | 150    | ^         | 1.0 | 0.25 | ug/L |   | 10/04/16 14:00 | 10/13/16 02:26 | 1       |
| Thallium  | 1.0    | U         | 1.0 | 0.28 | ug/L |   | 10/04/16 14:00 | 10/13/16 02:26 | 1       |

## General Chemistry

| Analyte               | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Ammonia (as N)        | 0.097  | J         | 0.20 | 0.033 | mg/L |   |          | 10/13/16 16:09 | 1       |
| Total Phosphorus as P | 0.10   | U         | 0.10 | 0.049 | mg/L |   |          | 10/06/16 13:53 | 1       |

TestAmerica Canton

# Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70278-1

**Client Sample ID: MW-186WT\_093016-D**

**Lab Sample ID: 240-70278-4**

**Date Collected: 09/30/16 08:10**

**Matrix: Water**

**Date Received: 10/01/16 09:30**

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - Dissolved

| Analyte      | Result | Qualifier | RL    | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--------------|--------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Aroclor-1016 | 0.095  | U         | 0.095 | 0.048 | ug/L |   | 10/06/16 13:30 | 10/08/16 13:02 | 1       |
| Aroclor-1221 | 0.095  | U         | 0.095 | 0.086 | ug/L |   | 10/06/16 13:30 | 10/08/16 13:02 | 1       |
| Aroclor-1232 | 0.095  | U         | 0.095 | 0.067 | ug/L |   | 10/06/16 13:30 | 10/08/16 13:02 | 1       |
| Aroclor-1242 | 0.095  | U         | 0.095 | 0.057 | ug/L |   | 10/06/16 13:30 | 10/08/16 13:02 | 1       |
| Aroclor-1248 | 0.095  | U         | 0.095 | 0.048 | ug/L |   | 10/06/16 13:30 | 10/08/16 13:02 | 1       |
| Aroclor-1254 | 0.095  | U         | 0.095 | 0.029 | ug/L |   | 10/06/16 13:30 | 10/08/16 13:02 | 1       |
| Aroclor-1260 | 0.095  | U         | 0.095 | 0.038 | ug/L |   | 10/06/16 13:30 | 10/08/16 13:02 | 1       |

| Surrogate              | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|----------------|----------------|---------|
| Tetrachloro-m-xylene   | 66        |           | 21 - 120 | 10/06/16 13:30 | 10/08/16 13:02 | 1       |
| DCB Decachlorobiphenyl | 51        |           | 10 - 120 | 10/06/16 13:30 | 10/08/16 13:02 | 1       |



# Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70278-1

**Client Sample ID: MW-185WT\_093016-D**

**Lab Sample ID: 240-70278-5**

**Date Collected: 09/30/16 00:00**

**Matrix: Water**

**Date Received: 10/01/16 09:30**

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - Dissolved

| Analyte      | Result | Qualifier | RL    | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--------------|--------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Aroclor-1016 | 0.095  | U         | 0.095 | 0.048 | ug/L |   | 10/04/16 09:00 | 10/06/16 10:06 | 1       |
| Aroclor-1221 | 0.095  | U         | 0.095 | 0.086 | ug/L |   | 10/04/16 09:00 | 10/06/16 10:06 | 1       |
| Aroclor-1232 | 0.095  | U         | 0.095 | 0.067 | ug/L |   | 10/04/16 09:00 | 10/06/16 10:06 | 1       |
| Aroclor-1242 | 0.095  | U         | 0.095 | 0.057 | ug/L |   | 10/04/16 09:00 | 10/06/16 10:06 | 1       |
| Aroclor-1248 | 0.095  | U         | 0.095 | 0.048 | ug/L |   | 10/04/16 09:00 | 10/06/16 10:06 | 1       |
| Aroclor-1254 | 0.095  | U         | 0.095 | 0.029 | ug/L |   | 10/04/16 09:00 | 10/06/16 10:06 | 1       |
| Aroclor-1260 | 0.095  | U         | 0.095 | 0.038 | ug/L |   | 10/04/16 09:00 | 10/06/16 10:06 | 1       |

| Surrogate              | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|----------------|----------------|---------|
| Tetrachloro-m-xylene   | 65        |           | 21 - 120 | 10/04/16 09:00 | 10/06/16 10:06 | 1       |
| DCB Decachlorobiphenyl | 76        |           | 10 - 120 | 10/04/16 09:00 | 10/06/16 10:06 | 1       |

TestAmerica Canton

# Surrogate Summary

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70278-1

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water

Prep Type: Total/NA

|                     |                    | Percent Surrogate Recovery (Acceptance Limits) |                  |
|---------------------|--------------------|------------------------------------------------|------------------|
| Lab Sample ID       | Client Sample ID   | TCX2<br>(21-120)                               | DCB2<br>(10-120) |
| 240-70278-1         | MW-186WT_093016    | 49                                             | 51               |
| 240-70278-1 MS      | MW-186WT_093016    | 49                                             | 36               |
| 240-70278-1 MSD     | MW-186WT_093016    | 45                                             | 47               |
| 240-70278-2         | DUP-04_093016      | 53                                             | 43               |
| 240-70278-3         | MW-185WT_093016    | 37                                             | 55               |
| LCS 240-249660/21-A | Lab Control Sample | 68                                             | 80               |
| LCS 240-249867/14-A | Lab Control Sample | 53                                             | 45               |
| LCS 240-250119/11-A | Lab Control Sample | 71                                             | 68               |
| MB 240-249660/20-A  | Method Blank       | 53                                             | 78               |
| MB 240-249867/13-A  | Method Blank       | 46                                             | 61               |
| MB 240-250119/10-A  | Method Blank       | 74                                             | 81               |

### Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water

Prep Type: Dissolved

|                 |                   | Percent Surrogate Recovery (Acceptance Limits) |                  |
|-----------------|-------------------|------------------------------------------------|------------------|
| Lab Sample ID   | Client Sample ID  | TCX2<br>(21-120)                               | DCB2<br>(10-120) |
| 240-70278-4     | MW-186WT_093016-D | 66                                             | 51               |
| 240-70278-4 MS  | MW-186WT_093016-D | 82                                             | 45               |
| 240-70278-4 MSD | MW-186WT_093016-D | 66                                             | 45               |
| 240-70278-5     | MW-185WT_093016-D | 65                                             | 76               |

### Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

# QC Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70278-1

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-249660/20-A

Matrix: Water

Analysis Batch: 250052

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 249660

| Analyte      | MB Result | MB Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--------------|-----------|--------------|------|-------|------|---|----------------|----------------|---------|
| Aroclor-1016 | 0.10      | U            | 0.10 | 0.050 | ug/L |   | 10/04/16 09:00 | 10/06/16 07:57 | 1       |
| Aroclor-1221 | 0.10      | U            | 0.10 | 0.090 | ug/L |   | 10/04/16 09:00 | 10/06/16 07:57 | 1       |
| Aroclor-1232 | 0.10      | U            | 0.10 | 0.070 | ug/L |   | 10/04/16 09:00 | 10/06/16 07:57 | 1       |
| Aroclor-1242 | 0.10      | U            | 0.10 | 0.060 | ug/L |   | 10/04/16 09:00 | 10/06/16 07:57 | 1       |
| Aroclor-1248 | 0.10      | U            | 0.10 | 0.050 | ug/L |   | 10/04/16 09:00 | 10/06/16 07:57 | 1       |
| Aroclor-1254 | 0.10      | U            | 0.10 | 0.030 | ug/L |   | 10/04/16 09:00 | 10/06/16 07:57 | 1       |
| Aroclor-1260 | 0.10      | U            | 0.10 | 0.040 | ug/L |   | 10/04/16 09:00 | 10/06/16 07:57 | 1       |

| Surrogate              | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------------|--------------|----------|----------------|----------------|---------|
| Tetrachloro-m-xylene   | 53           |              | 21 - 120 | 10/04/16 09:00 | 10/06/16 07:57 | 1       |
| DCB Decachlorobiphenyl | 78           |              | 10 - 120 | 10/04/16 09:00 | 10/06/16 07:57 | 1       |

Lab Sample ID: LCS 240-249660/21-A

Matrix: Water

Analysis Batch: 250052

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 249660

| Analyte      | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits   |
|--------------|-------------|------------|---------------|------|---|------|----------|
| Aroclor-1016 | 2.50        | 1.76       |               | ug/L |   | 70   | 32 - 120 |
| Aroclor-1260 | 2.50        | 2.19       |               | ug/L |   | 87   | 36 - 120 |

| Surrogate              | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------|---------------|---------------|----------|
| Tetrachloro-m-xylene   | 68            |               | 21 - 120 |
| DCB Decachlorobiphenyl | 80            |               | 10 - 120 |

Lab Sample ID: 240-70278-1 MS

Matrix: Water

Analysis Batch: 250052

Client Sample ID: MW-186WT\_093016

Prep Type: Total/NA

Prep Batch: 249660

| Analyte      | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | Limits   |
|--------------|---------------|------------------|-------------|-----------|--------------|------|---|------|----------|
| Aroclor-1016 | 0.095         | U                | 2.38        | 1.34      |              | ug/L |   | 56   | 24 - 121 |
| Aroclor-1260 | 0.095         | U                | 2.38        | 1.59      |              | ug/L |   | 67   | 10 - 120 |

| Surrogate              | MS %Recovery | MS Qualifier | Limits   |
|------------------------|--------------|--------------|----------|
| Tetrachloro-m-xylene   | 49           |              | 21 - 120 |
| DCB Decachlorobiphenyl | 36           |              | 10 - 120 |

Lab Sample ID: 240-70278-1 MSD

Matrix: Water

Analysis Batch: 250052

Client Sample ID: MW-186WT\_093016

Prep Type: Total/NA

Prep Batch: 249660

| Analyte      | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | Limits   | RPD | Limit |
|--------------|---------------|------------------|-------------|------------|---------------|------|---|------|----------|-----|-------|
| Aroclor-1016 | 0.095         | U                | 2.38        | 1.42       |               | ug/L |   | 59   | 24 - 121 | 6   | 30    |
| Aroclor-1260 | 0.095         | U                | 2.38        | 1.71       |               | ug/L |   | 72   | 10 - 120 | 7   | 30    |

| Surrogate              | MSD %Recovery | MSD Qualifier | Limits   |
|------------------------|---------------|---------------|----------|
| Tetrachloro-m-xylene   | 45            |               | 21 - 120 |
| DCB Decachlorobiphenyl | 47            |               | 10 - 120 |

TestAmerica Canton

# QC Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70278-1

Lab Sample ID: MB 240-249867/13-A

Matrix: Water

Analysis Batch: 250405

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 249867

| Analyte      | MB Result | MB Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--------------|-----------|--------------|------|-------|------|---|----------------|----------------|---------|
| Aroclor-1016 | 0.10      | U            | 0.10 | 0.050 | ug/L |   | 10/05/16 08:23 | 10/07/16 23:50 | 1       |
| Aroclor-1221 | 0.10      | U            | 0.10 | 0.090 | ug/L |   | 10/05/16 08:23 | 10/07/16 23:50 | 1       |
| Aroclor-1232 | 0.10      | U            | 0.10 | 0.070 | ug/L |   | 10/05/16 08:23 | 10/07/16 23:50 | 1       |
| Aroclor-1242 | 0.10      | U            | 0.10 | 0.060 | ug/L |   | 10/05/16 08:23 | 10/07/16 23:50 | 1       |
| Aroclor-1248 | 0.10      | U            | 0.10 | 0.050 | ug/L |   | 10/05/16 08:23 | 10/07/16 23:50 | 1       |
| Aroclor-1254 | 0.10      | U            | 0.10 | 0.030 | ug/L |   | 10/05/16 08:23 | 10/07/16 23:50 | 1       |
| Aroclor-1260 | 0.10      | U            | 0.10 | 0.040 | ug/L |   | 10/05/16 08:23 | 10/07/16 23:50 | 1       |

| Surrogate              | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------------|--------------|----------|----------------|----------------|---------|
| Tetrachloro-m-xylene   | 46           |              | 21 - 120 | 10/05/16 08:23 | 10/07/16 23:50 | 1       |
| DCB Decachlorobiphenyl | 61           |              | 10 - 120 | 10/05/16 08:23 | 10/07/16 23:50 | 1       |

Lab Sample ID: LCS 240-249867/14-A

Matrix: Water

Analysis Batch: 250405

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 249867

| Analyte      | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--------------|-------------|------------|---------------|------|---|------|--------------|
| Aroclor-1016 | 2.50        | 1.53       |               | ug/L |   | 61   | 32 - 120     |
| Aroclor-1260 | 2.50        | 1.64       |               | ug/L |   | 65   | 36 - 120     |

| Surrogate              | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------|---------------|---------------|----------|
| Tetrachloro-m-xylene   | 53            |               | 21 - 120 |
| DCB Decachlorobiphenyl | 45            |               | 10 - 120 |

Lab Sample ID: MB 240-250119/10-A

Matrix: Water

Analysis Batch: 250441

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 250119

| Analyte      | MB Result | MB Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--------------|-----------|--------------|------|-------|------|---|----------------|----------------|---------|
| Aroclor-1016 | 0.10      | U            | 0.10 | 0.050 | ug/L |   | 10/06/16 09:38 | 10/08/16 13:53 | 1       |
| Aroclor-1221 | 0.10      | U            | 0.10 | 0.090 | ug/L |   | 10/06/16 09:38 | 10/08/16 13:53 | 1       |
| Aroclor-1232 | 0.10      | U            | 0.10 | 0.070 | ug/L |   | 10/06/16 09:38 | 10/08/16 13:53 | 1       |
| Aroclor-1242 | 0.10      | U            | 0.10 | 0.060 | ug/L |   | 10/06/16 09:38 | 10/08/16 13:53 | 1       |
| Aroclor-1248 | 0.10      | U            | 0.10 | 0.050 | ug/L |   | 10/06/16 09:38 | 10/08/16 13:53 | 1       |
| Aroclor-1254 | 0.10      | U            | 0.10 | 0.030 | ug/L |   | 10/06/16 09:38 | 10/08/16 13:53 | 1       |
| Aroclor-1260 | 0.10      | U            | 0.10 | 0.040 | ug/L |   | 10/06/16 09:38 | 10/08/16 13:53 | 1       |

| Surrogate              | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------------|--------------|----------|----------------|----------------|---------|
| Tetrachloro-m-xylene   | 74           |              | 21 - 120 | 10/06/16 09:38 | 10/08/16 13:53 | 1       |
| DCB Decachlorobiphenyl | 81           |              | 10 - 120 | 10/06/16 09:38 | 10/08/16 13:53 | 1       |

Lab Sample ID: LCS 240-250119/11-A

Matrix: Water

Analysis Batch: 250441

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 250119

| Analyte      | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--------------|-------------|------------|---------------|------|---|------|--------------|
| Aroclor-1016 | 2.50        | 1.93       |               | ug/L |   | 77   | 32 - 120     |
| Aroclor-1260 | 2.50        | 1.85       |               | ug/L |   | 74   | 36 - 120     |

TestAmerica Canton

# QC Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70278-1

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 240-250119/11-A  
Matrix: Water  
Analysis Batch: 250441

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 250119

|                        | LCS       | LCS       |          |
|------------------------|-----------|-----------|----------|
| Surrogate              | %Recovery | Qualifier | Limits   |
| Tetrachloro-m-xylene   | 71        |           | 21 - 120 |
| DCB Decachlorobiphenyl | 68        |           | 10 - 120 |

Lab Sample ID: 240-70278-4 MS  
Matrix: Water  
Analysis Batch: 250441

Client Sample ID: MW-186WT\_093016-D  
Prep Type: Dissolved  
Prep Batch: 250119

|                        | Sample    | Sample    | Spike    | MS     | MS        |      |   |      |          |  |
|------------------------|-----------|-----------|----------|--------|-----------|------|---|------|----------|--|
| Analyte                | Result    | Qualifier | Added    | Result | Qualifier | Unit | D | %Rec | Limits   |  |
| Aroclor-1016           | 0.095     | U * F1 F2 | 2.38     | 2.25   |           | ug/L |   | 94   | 24 - 121 |  |
| Aroclor-1260           | 0.095     | U * F2    | 2.38     | 2.11   |           | ug/L |   | 88   | 10 - 120 |  |
|                        | MS        | MS        |          |        |           |      |   |      |          |  |
| Surrogate              | %Recovery | Qualifier | Limits   |        |           |      |   |      |          |  |
| Tetrachloro-m-xylene   | 82        |           | 21 - 120 |        |           |      |   |      |          |  |
| DCB Decachlorobiphenyl | 45        |           | 10 - 120 |        |           |      |   |      |          |  |

Lab Sample ID: 240-70278-4 MSD  
Matrix: Water  
Analysis Batch: 250441

Client Sample ID: MW-186WT\_093016-D  
Prep Type: Dissolved  
Prep Batch: 250119

|                        | Sample    | Sample    | Spike    | MSD    | MSD       |      |   |      |          |     |       |  |
|------------------------|-----------|-----------|----------|--------|-----------|------|---|------|----------|-----|-------|--|
| Analyte                | Result    | Qualifier | Added    | Result | Qualifier | Unit | D | %Rec | Limits   | RPD | Limit |  |
| Aroclor-1016           | 0.095     | U * F1 F2 | 2.38     | 1.88   |           | ug/L |   | 79   | 24 - 121 | 18  | 30    |  |
| Aroclor-1260           | 0.095     | U * F2    | 2.38     | 1.76   |           | ug/L |   | 74   | 10 - 120 | 18  | 30    |  |
|                        | MSD       | MSD       |          |        |           |      |   |      |          |     |       |  |
| Surrogate              | %Recovery | Qualifier | Limits   |        |           |      |   |      |          |     |       |  |
| Tetrachloro-m-xylene   | 66        |           | 21 - 120 |        |           |      |   |      |          |     |       |  |
| DCB Decachlorobiphenyl | 45        |           | 10 - 120 |        |           |      |   |      |          |     |       |  |

## Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 240-249703/1-A  
Matrix: Water  
Analysis Batch: 251370

Client Sample ID: Method Blank  
Prep Type: Total Recoverable  
Prep Batch: 249703

|           | MB     | MB        |     |      |      |   |                |                |     |     |
|-----------|--------|-----------|-----|------|------|---|----------------|----------------|-----|-----|
| Analyte   | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil | Fac |
| Manganese | 1.0    | U         | 1.0 | 0.25 | ug/L |   | 10/04/16 14:00 | 10/13/16 15:47 |     | 1   |
| Thallium  | 1.0    | U         | 1.0 | 0.28 | ug/L |   | 10/04/16 14:00 | 10/13/16 15:47 |     | 1   |

Lab Sample ID: LCS 240-249703/2-A  
Matrix: Water  
Analysis Batch: 251370

Client Sample ID: Lab Control Sample  
Prep Type: Total Recoverable  
Prep Batch: 249703

|           | Spike | LCS    | LCS       |      |   |      |          |  |  |  |
|-----------|-------|--------|-----------|------|---|------|----------|--|--|--|
| Analyte   | Added | Result | Qualifier | Unit | D | %Rec | Limits   |  |  |  |
| Manganese | 1000  | 1040   |           | ug/L |   | 104  | 80 - 120 |  |  |  |
| Thallium  | 250   | 263    |           | ug/L |   | 105  | 80 - 120 |  |  |  |

TestAmerica Canton

# QC Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70278-1

## Method: SM 4500 NH3 D - Ammonia

Lab Sample ID: MB 240-251320/7

Matrix: Water

Analysis Batch: 251320

Client Sample ID: Method Blank  
Prep Type: Total/NA

| Analyte        | MB<br>Result | MB<br>Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------|--------------|-----------------|------|-------|------|---|----------|----------------|---------|
| Ammonia (as N) | 0.20         | U               | 0.20 | 0.033 | mg/L |   |          | 10/13/16 12:34 | 1       |

Lab Sample ID: LCS 240-251320/8

Matrix: Water

Analysis Batch: 251320

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA

| Analyte        | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|----------------|----------------|---------------|------------------|------|---|------|-----------------|
| Ammonia (as N) | 3.84           | 3.76          |                  | mg/L |   | 98   | 85 - 114        |

Lab Sample ID: 240-70278-1 MS

Matrix: Water

Analysis Batch: 251320

Client Sample ID: MW-186WT\_093016  
Prep Type: Total/NA

| Analyte        | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|----------------|------------------|---------------------|----------------|--------------|-----------------|------|---|------|-----------------|
| Ammonia (as N) | 1.5              |                     | 12.5           | 15.5         |                 | mg/L |   | 112  | 79 - 130        |

Lab Sample ID: 240-70278-1 MSD

Matrix: Water

Analysis Batch: 251320

Client Sample ID: MW-186WT\_093016  
Prep Type: Total/NA

| Analyte        | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits | RPD | RPD<br>Limit |
|----------------|------------------|---------------------|----------------|---------------|------------------|------|---|------|-----------------|-----|--------------|
| Ammonia (as N) | 1.5              |                     | 12.5           | 15.3          |                  | mg/L |   | 110  | 79 - 130        | 1   | 10           |

## Method: SM4500 P E-1999 - Phosphorus

Lab Sample ID: MB 240-250205/3

Matrix: Water

Analysis Batch: 250205

Client Sample ID: Method Blank  
Prep Type: Total/NA

| Analyte               | MB<br>Result | MB<br>Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------|--------------|-----------------|------|-------|------|---|----------|----------------|---------|
| Total Phosphorus as P | 0.10         | U               | 0.10 | 0.049 | mg/L |   |          | 10/06/16 13:53 | 1       |

Lab Sample ID: LCS 240-250205/4

Matrix: Water

Analysis Batch: 250205

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA

| Analyte               | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|-----------------------|----------------|---------------|------------------|------|---|------|-----------------|
| Total Phosphorus as P | 0.665          | 0.682         |                  | mg/L |   | 103  | 77 - 120        |

Lab Sample ID: 240-70278-1 MS

Matrix: Water

Analysis Batch: 250205

Client Sample ID: MW-186WT\_093016  
Prep Type: Total/NA

| Analyte               | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|-----------------------|------------------|---------------------|----------------|--------------|-----------------|------|---|------|-----------------|
| Total Phosphorus as P | 0.26             |                     | 0.500          | 0.802        |                 | mg/L |   | 108  | 38 - 156        |

TestAmerica Canton

# QC Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70278-1

## Method: SM4500 P E-1999 - Phosphorus (Continued)

Lab Sample ID: 240-70278-1 MSD

Matrix: Water

Analysis Batch: 250205

Client Sample ID: MW-186WT\_093016

Prep Type: Total/NA

| Analyte               | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits | RPD | RPD<br>Limit |
|-----------------------|------------------|---------------------|----------------|---------------|------------------|------|---|------|-----------------|-----|--------------|
| Total Phosphorus as P | 0.26             |                     | 0.500          | 0.782         |                  | mg/L |   | 104  | 38 - 156        | 3   | 29           |

# QC Association Summary

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70278-1

## GC Semi VOA

### Prep Batch: 249660

| Lab Sample ID       | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|---------------------|--------------------|-----------|--------|--------|------------|
| 240-70278-1         | MW-186WT_093016    | Total/NA  | Water  | 3520C  |            |
| 240-70278-2         | DUP-04_093016      | Total/NA  | Water  | 3520C  |            |
| 240-70278-5         | MW-185WT_093016-D  | Dissolved | Water  | 3520C  |            |
| MB 240-249660/20-A  | Method Blank       | Total/NA  | Water  | 3520C  |            |
| LCS 240-249660/21-A | Lab Control Sample | Total/NA  | Water  | 3520C  |            |
| 240-70278-1 MS      | MW-186WT_093016    | Total/NA  | Water  | 3520C  |            |
| 240-70278-1 MSD     | MW-186WT_093016    | Total/NA  | Water  | 3520C  |            |

### Prep Batch: 249867

| Lab Sample ID       | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|---------------------|--------------------|-----------|--------|--------|------------|
| 240-70278-3         | MW-185WT_093016    | Total/NA  | Water  | 3520C  |            |
| MB 240-249867/13-A  | Method Blank       | Total/NA  | Water  | 3520C  |            |
| LCS 240-249867/14-A | Lab Control Sample | Total/NA  | Water  | 3520C  |            |

### Analysis Batch: 250052

| Lab Sample ID       | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|---------------------|--------------------|-----------|--------|--------|------------|
| 240-70278-1         | MW-186WT_093016    | Total/NA  | Water  | 8082   | 249660     |
| 240-70278-2         | DUP-04_093016      | Total/NA  | Water  | 8082   | 249660     |
| 240-70278-5         | MW-185WT_093016-D  | Dissolved | Water  | 8082   | 249660     |
| MB 240-249660/20-A  | Method Blank       | Total/NA  | Water  | 8082   | 249660     |
| LCS 240-249660/21-A | Lab Control Sample | Total/NA  | Water  | 8082   | 249660     |
| 240-70278-1 MS      | MW-186WT_093016    | Total/NA  | Water  | 8082   | 249660     |
| 240-70278-1 MSD     | MW-186WT_093016    | Total/NA  | Water  | 8082   | 249660     |

### Prep Batch: 250119

| Lab Sample ID       | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|---------------------|--------------------|-----------|--------|--------|------------|
| 240-70278-4         | MW-186WT_093016-D  | Dissolved | Water  | 3520C  |            |
| MB 240-250119/10-A  | Method Blank       | Total/NA  | Water  | 3520C  |            |
| LCS 240-250119/11-A | Lab Control Sample | Total/NA  | Water  | 3520C  |            |
| 240-70278-4 MS      | MW-186WT_093016-D  | Dissolved | Water  | 3520C  |            |
| 240-70278-4 MSD     | MW-186WT_093016-D  | Dissolved | Water  | 3520C  |            |

### Analysis Batch: 250405

| Lab Sample ID       | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|---------------------|--------------------|-----------|--------|--------|------------|
| 240-70278-3         | MW-185WT_093016    | Total/NA  | Water  | 8082   | 249867     |
| MB 240-249867/13-A  | Method Blank       | Total/NA  | Water  | 8082   | 249867     |
| LCS 240-249867/14-A | Lab Control Sample | Total/NA  | Water  | 8082   | 249867     |

### Analysis Batch: 250441

| Lab Sample ID       | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|---------------------|--------------------|-----------|--------|--------|------------|
| 240-70278-4         | MW-186WT_093016-D  | Dissolved | Water  | 8082   | 250119     |
| MB 240-250119/10-A  | Method Blank       | Total/NA  | Water  | 8082   | 250119     |
| LCS 240-250119/11-A | Lab Control Sample | Total/NA  | Water  | 8082   | 250119     |
| 240-70278-4 MS      | MW-186WT_093016-D  | Dissolved | Water  | 8082   | 250119     |
| 240-70278-4 MSD     | MW-186WT_093016-D  | Dissolved | Water  | 8082   | 250119     |

TestAmerica Canton



# QC Association Summary

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70278-1

## Metals

### Prep Batch: 249703

| Lab Sample ID      | Client Sample ID   | Prep Type         | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 240-70278-1        | MW-186WT_093016    | Total Recoverable | Water  | 3005A  |            |
| 240-70278-3        | MW-185WT_093016    | Total Recoverable | Water  | 3005A  |            |
| MB 240-249703/1-A  | Method Blank       | Total Recoverable | Water  | 3005A  |            |
| LCS 240-249703/2-A | Lab Control Sample | Total Recoverable | Water  | 3005A  |            |
| 240-70278-1 MS     | MW-186WT_093016    | Total Recoverable | Water  | 3005A  |            |
| 240-70278-1 MSD    | MW-186WT_093016    | Total Recoverable | Water  | 3005A  |            |

### Analysis Batch: 251153

| Lab Sample ID   | Client Sample ID | Prep Type         | Matrix | Method | Prep Batch |
|-----------------|------------------|-------------------|--------|--------|------------|
| 240-70278-1     | MW-186WT_093016  | Total Recoverable | Water  | 6020   | 249703     |
| 240-70278-3     | MW-185WT_093016  | Total Recoverable | Water  | 6020   | 249703     |
| 240-70278-1 MS  | MW-186WT_093016  | Total Recoverable | Water  | 6020   | 249703     |
| 240-70278-1 MSD | MW-186WT_093016  | Total Recoverable | Water  | 6020   | 249703     |

### Analysis Batch: 251370

| Lab Sample ID      | Client Sample ID   | Prep Type         | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| MB 240-249703/1-A  | Method Blank       | Total Recoverable | Water  | 6020   | 249703     |
| LCS 240-249703/2-A | Lab Control Sample | Total Recoverable | Water  | 6020   | 249703     |

## General Chemistry

### Analysis Batch: 250205

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method             | Prep Batch |
|------------------|--------------------|-----------|--------|--------------------|------------|
| 240-70278-1      | MW-186WT_093016    | Total/NA  | Water  | SM4500 P<br>E-1999 |            |
| 240-70278-3      | MW-185WT_093016    | Total/NA  | Water  | SM4500 P<br>E-1999 |            |
| MB 240-250205/3  | Method Blank       | Total/NA  | Water  | SM4500 P<br>E-1999 |            |
| LCS 240-250205/4 | Lab Control Sample | Total/NA  | Water  | SM4500 P<br>E-1999 |            |
| 240-70278-1 MS   | MW-186WT_093016    | Total/NA  | Water  | SM4500 P<br>E-1999 |            |
| 240-70278-1 MSD  | MW-186WT_093016    | Total/NA  | Water  | SM4500 P<br>E-1999 |            |

### Analysis Batch: 251320

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method        | Prep Batch |
|------------------|--------------------|-----------|--------|---------------|------------|
| 240-70278-1      | MW-186WT_093016    | Total/NA  | Water  | SM 4500 NH3 D |            |
| 240-70278-3      | MW-185WT_093016    | Total/NA  | Water  | SM 4500 NH3 D |            |
| MB 240-251320/7  | Method Blank       | Total/NA  | Water  | SM 4500 NH3 D |            |
| LCS 240-251320/8 | Lab Control Sample | Total/NA  | Water  | SM 4500 NH3 D |            |
| 240-70278-1 MS   | MW-186WT_093016    | Total/NA  | Water  | SM 4500 NH3 D |            |
| 240-70278-1 MSD  | MW-186WT_093016    | Total/NA  | Water  | SM 4500 NH3 D |            |

TestAmerica Canton

# Lab Chronicle

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70278-1

**Client Sample ID: MW-186WT\_093016**

**Date Collected: 09/30/16 08:10**

**Date Received: 10/01/16 09:30**

**Lab Sample ID: 240-70278-1**

**Matrix: Water**

| Prep Type         | Batch Type | Batch Method    | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA          | Prep       | 3520C           |     |                 | 249660       | 10/04/16 09:00       | JDR     | TAL CAN |
| Total/NA          | Analysis   | 8082            |     | 1               | 250052       | 10/06/16 08:52       | CSC     | TAL CAN |
| Total Recoverable | Prep       | 3005A           |     |                 | 249703       | 10/04/16 14:00       | AJC     | TAL CAN |
| Total Recoverable | Analysis   | 6020            |     | 1               | 251153       | 10/13/16 01:01       | AS1     | TAL CAN |
| Total/NA          | Analysis   | SM 4500 NH3 D   |     | 1               | 251320       | 10/13/16 15:43       | JMB     | TAL CAN |
| Total/NA          | Analysis   | SM4500 P E-1999 |     | 1               | 250205       | 10/06/16 13:53       | JWW     | TAL CAN |

**Client Sample ID: DUP-04\_093016**

**Date Collected: 09/30/16 00:00**

**Date Received: 10/01/16 09:30**

**Lab Sample ID: 240-70278-2**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3520C        |     |                 | 249660       | 10/04/16 09:00       | JDR     | TAL CAN |
| Total/NA  | Analysis   | 8082         |     | 1               | 250052       | 10/06/16 09:48       | CSC     | TAL CAN |

**Client Sample ID: MW-185WT\_093016**

**Date Collected: 09/30/16 08:55**

**Date Received: 10/01/16 09:30**

**Lab Sample ID: 240-70278-3**

**Matrix: Water**

| Prep Type         | Batch Type | Batch Method    | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA          | Prep       | 3520C           |     |                 | 249867       | 10/05/16 08:23       | JDR     | TAL CAN |
| Total/NA          | Analysis   | 8082            |     | 1               | 250405       | 10/07/16 20:03       | LSH     | TAL CAN |
| Total Recoverable | Prep       | 3005A           |     |                 | 249703       | 10/04/16 14:00       | AJC     | TAL CAN |
| Total Recoverable | Analysis   | 6020            |     | 1               | 251153       | 10/13/16 02:26       | AS1     | TAL CAN |
| Total/NA          | Analysis   | SM 4500 NH3 D   |     | 1               | 251320       | 10/13/16 16:09       | JMB     | TAL CAN |
| Total/NA          | Analysis   | SM4500 P E-1999 |     | 1               | 250205       | 10/06/16 13:53       | JWW     | TAL CAN |

**Client Sample ID: MW-186WT\_093016-D**

**Date Collected: 09/30/16 08:10**

**Date Received: 10/01/16 09:30**

**Lab Sample ID: 240-70278-4**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Dissolved | Prep       | 3520C        |     |                 | 250119       | 10/06/16 13:30       | JDR     | TAL CAN |
| Dissolved | Analysis   | 8082         |     | 1               | 250441       | 10/08/16 13:02       | CSC     | TAL CAN |

**Client Sample ID: MW-185WT\_093016-D**

**Date Collected: 09/30/16 00:00**

**Date Received: 10/01/16 09:30**

**Lab Sample ID: 240-70278-5**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Dissolved | Prep       | 3520C        |     |                 | 249660       | 10/04/16 09:00       | JDR     | TAL CAN |
| Dissolved | Analysis   | 8082         |     | 1               | 250052       | 10/06/16 10:06       | CSC     | TAL CAN |

TestAmerica Canton

# Lab Chronicle

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70278-1

**Laboratory References:**

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

|    |
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# Certification Summary

Client: ARCADIS U.S. Inc  
Project/Site: RACER Saginaw Malleable Iron

TestAmerica Job ID: 240-70278-1

## Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority             | Program       | EPA Region | Certification ID | Expiration Date |
|-----------------------|---------------|------------|------------------|-----------------|
| California            | NELAP         | 9          | 01144CA          | 06-30-14 *      |
| California            | State Program | 9          | 2927             | 04-30-17        |
| Connecticut           | State Program | 1          | PH-0590          | 12-31-17        |
| Florida               | NELAP         | 4          | E87225           | 06-30-17        |
| Illinois              | NELAP         | 5          | 200004           | 07-31-17        |
| Kansas                | NELAP         | 7          | E-10336          | 01-31-17        |
| Kentucky (UST)        | State Program | 4          | 58               | 02-23-17        |
| Kentucky (VW)         | State Program | 4          | 98016            | 12-31-16 *      |
| Minnesota             | NELAP         | 5          | 039-999-348      | 12-31-16 *      |
| Minnesota (Petrofund) | State Program | 1          | 3506             | 07-31-17        |
| Nevada                | State Program | 9          | OH-000482008A    | 07-31-17        |
| New Jersey            | NELAP         | 2          | OH001            | 06-30-17        |
| New York              | NELAP         | 2          | 10975            | 03-31-17        |
| Ohio VAP              | State Program | 5          | CL0024           | 09-14-17        |
| Oregon                | NELAP         | 10         | 4062             | 02-23-17        |
| Pennsylvania          | NELAP         | 3          | 68-00340         | 08-31-17        |
| Texas                 | NELAP         | 6          | T104704517-15-5  | 08-31-17        |
| USDA                  | Federal       |            | P330-13-00319    | 11-26-16 *      |
| Virginia              | NELAP         | 3          | 460175           | 09-14-17        |
| Washington            | State Program | 10         | C971             | 01-12-17        |
| West Virginia DEP     | State Program | 3          | 210              | 12-31-16 *      |
| Wisconsin             | State Program | 5          | 999518190        | 08-31-17        |

\* Certification renewal pending - certification considered valid.

TestAmerica Canton

0.2/C0.6  
1.2/C1.6  
1.0/C1.4

## Chain of Custody Record

**TestAmerica**  
THE LEADER IN ENVIRONMENTAL TESTING  
**TestAmerica Laboratories, Inc.**  
TAL-8210 (07/13)

163778

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:[illegible]

~~10/25/2016~~



[illegible]

Temperature readings: \_\_\_\_\_

| <u>Client Sample ID</u> | <u>Lab ID</u> | <u>Container Type</u>              | <u>Container</u><br><u>pH</u> | <u>Preservative</u><br><u>Added (mls)</u> | <u>Lot #</u> |
|-------------------------|---------------|------------------------------------|-------------------------------|-------------------------------------------|--------------|
| MW-186WT-093016         | 240-70278-A-1 | Plastic 500ml - with Sulfuric Acid | <2                            | _____                                     | _____        |
| MW-186WT-093016         | 240-70278-B-1 | Plastic 500ml - with Sulfuric Acid | <2                            | _____                                     | _____        |
| MW-186WT-093016         | 240-70278-C-1 | Plastic 500ml - with Nitric Acid   | <2                            | _____                                     | _____        |
| MW-185WT-093016         | 240-70278-A-3 | Plastic 500ml - with Sulfuric Acid | <2                            | _____                                     | _____        |
| MW-185WT-093016         | 240-70278-B-3 | Plastic 500ml - with Sulfuric Acid | <2                            | _____                                     | _____        |
| MW-185WT-093016         | 240-70278-C-3 | Plastic 500ml - with Nitric Acid   | <2                            | _____                                     | _____        |



# ATTACHMENT 5

Field Sampling Logs





Troll 9000  
9/29/2016

Low-Flow System  
ISI Low-Flow Log

**Project Information:**

Operator Name Billy J Cobern  
Company Name ARCADIS  
Project Name SMI River Berm Sampling  
Site Name Racer Saginaw

**Pump Information:**

Pump Model/Type ProActive Athena  
Tubing Type LDPE  
Tubing Diameter 0.17 [in]  
Tubing Length 22 [ft]  
Pump placement from TOC 17 [ft]

**Well Information:**

Well ID MW-107S1  
Well diameter 2 [in]  
Well total depth 20.2 [ft]  
Depth to top of screen 15 [ft]  
Screen length 60 [in]  
Depth to Water 9.76 [ft]

**Pumping information:**

Final pumping rate 100 [mL/min]  
Flowcell volume 215.2 [mL]  
Calculated Sample Rate 130 [sec]  
Sample rate 300 [sec]  
Stabilized drawdown 1.2 [in]

**Low-Flow Sampling Stabilization Summary**

|                             |  | Time     | Temp [C] | pH [pH] | Cond [ $\mu$ S/cm @25C] | Turb [NTU] | DO [mg/L] | ORP [mV] |
|-----------------------------|--|----------|----------|---------|-------------------------|------------|-----------|----------|
| Stabilization Settings      |  |          |          | +/-0.1  | +/-1                    | +/-1       | +/-1      | +/-10    |
|                             |  |          |          |         | +/-3 %                  | +/-10 %    | +/-10 %   |          |
| Last 5 Readings             |  | 9:55:31  | 14.42    | 7.06    | 549.43                  | 1.36       | 0.57      | 25.37    |
|                             |  | 10:00:33 | 14.34    | 7.07    | 549.50                  | 1.44       | 0.58      | 18.44    |
|                             |  | 10:05:36 | 14.23    | 7.05    | 549.52                  | 2.86       | 0.36      | 13.56    |
|                             |  | 10:10:37 | 14.27    | 7.01    | 549.38                  | 1.75       | 0.49      | 10.78    |
|                             |  | 10:15:38 | 14.29    | 7.03    | 547.92                  | 1.82       | 0.49      | 9.54     |
| Variance in last 3 readings |  | 10:05:36 | -0.11    | -0.02   | 0.02                    | 1.42       | -0.22     | -4.88    |
|                             |  | 10:10:37 | 0.04     | -0.04   | -0.13                   | -1.11      | 0.13      | -2.78    |
|                             |  | 10:15:38 | 0.02     | 0.02    | -1.46                   | 0.07       | 0.00      | -1.24    |

**Notes:**

Voltage: n/a  
Time: 10:15  
Pump time: 50 minutes  
Purge: 1 gallon  
SDTW: 9.86  
FDTW: 9.86  
Parameters: Ammonia

Stick up well, locked



Troll 9000  
9/29/2016

Low-Flow System  
ISI Low-Flow Log

**Project Information:**

Operator Name Billy J Cobern  
Company Name ARCADIS  
Project Name SMI River Berm Sampling  
Site Name Racer Saginaw

**Pump Information:**

Pump Model/Type ProActive Athena  
Tubing Type LDPE  
Tubing Diameter 0.17 [in]  
Tubing Length 15 [ft]  
Pump placement from TOC 11.5 [ft]

**Well Information:**

Well ID MW-107WT  
Well diameter 2 [in]  
Well total depth 11.8 [ft]  
Depth to top of screen 7 [ft]  
Screen length 60 [in]  
Depth to Water 10.05 [ft]

**Pumping information:**

Final pumping rate 50 [mL/min]  
Flowcell volume 183.95 [mL]  
Calculated Sample Rate 221 [sec]  
Sample rate 300 [sec]  
Stabilized drawdown 0 [in]

**Low-Flow Sampling Stabilization Summary**

|                             | Time    | Temp [C] | pH [pH] | Cond [µS/cm @25C] | Turb [NTU]      | DO [mg/L]       | ORP [mV] |
|-----------------------------|---------|----------|---------|-------------------|-----------------|-----------------|----------|
| Stabilization Settings      |         |          | +/-0.1  | +/-1<br>+/-3 %    | +/-1<br>+/-10 % | +/-1<br>+/-10 % | +/-10    |
| Last 5 Readings             | 8:20:13 | 15.58    | 6.83    | 397.85            | 0.75            | 0.94            | 41.45    |
|                             | 8:25:16 | 15.56    | 6.86    | 400.45            | 0.66            | 0.75            | 38.37    |
|                             | 8:30:18 | 15.57    | 6.88    | 401.14            | 0.65            | 0.67            | 36.32    |
|                             | 8:35:20 | 15.59    | 6.90    | 401.50            | 0.92            | 0.63            | 35.20    |
|                             | 8:40:22 | 15.59    | 6.90    | 401.48            | 1.05            | 0.62            | 35.20    |
| Variance in last 3 readings | 8:30:18 | 0.02     | 0.02    | 0.70              | -0.01           | -0.07           | -2.05    |
|                             | 8:35:20 | 0.02     | 0.01    | 0.36              | 0.26            | -0.04           | -1.11    |
|                             | 8:40:22 | 0.00     | 0.00    | -0.02             | 0.14            | -0.01           | 0.00     |

**Notes:**

Voltage: n/a  
Time: 8:40  
Pump time: 25 minutes  
Purge: .25 gallon  
SDTW: n/a  
FDTW: 10.75  
Parameters: Ammonia, phosphorus, total Arsenic, Total thallium, Total manganese

Stick up well, locked, didn't meet maximum drawdown requirement, drawdown didn't stabilize



Troll 9000  
9/29/2016

Low-Flow System  
ISI Low-Flow Log

**Project Information:**

Operator Name Billy J Cobern  
Company Name ARCADIS  
Project Name SMI River Berm Sampling  
Site Name Racer Saginaw

**Pump Information:**

Pump Model/Type ProActive Athena  
Tubing Type LDPE  
Tubing Diameter 0.17 [in]  
Tubing Length 32 [ft]  
Pump placement from TOC 27 [ft]

**Well Information:**

Well ID MW-108S2  
Well diameter 2 [in]  
Well total depth 30.55 [ft]  
Depth to top of screen 25.5 [ft]  
Screen length 60 [in]  
Depth to Water 9.42 [ft]

**Pumping information:**

Final pumping rate 100 [mL/min]  
Flowcell volume 259.83 [mL]  
Calculated Sample Rate 156 [sec]  
Sample rate 300 [sec]  
Stabilized drawdown 1.2 [in]

**Low-Flow Sampling Stabilization Summary**

|                             |  | Time     | Temp [C] | pH [pH] | Cond [µS/cm @25C] | Turb [NTU] | DO [mg/L] | ORP [mV] |
|-----------------------------|--|----------|----------|---------|-------------------|------------|-----------|----------|
| Stabilization Settings      |  |          |          | +/-0.1  | +/-1              | +/-1       | +/-1      | +/-10    |
|                             |  |          |          |         | +/-3 %            | +/-10 %    | +/-10 %   |          |
| Last 5 Readings             |  | 11:25:38 | 15.29    | 6.89    | 375.81            | 3.71       | 0.72      | 19.55    |
|                             |  | 11:30:40 | 15.27    | 7.01    | 378.88            | 1.73       | 0.64      | 16.39    |
|                             |  | 11:35:41 | 15.07    | 7.06    | 387.14            | 1.62       | 0.61      | 14.59    |
|                             |  | 11:40:44 | 15.03    | 7.12    | 391.36            | 1.42       | 0.53      | 9.12     |
|                             |  | 11:45:45 | 15.00    | 7.10    | 394.94            | 1.43       | 0.52      | 7.28     |
| Variance in last 3 readings |  | 11:35:41 | -0.20    | 0.04    | 8.26              | -0.11      | -0.04     | -1.80    |
|                             |  | 11:40:44 | -0.04    | 0.07    | 4.23              | -0.20      | -0.08     | -5.48    |
|                             |  | 11:45:45 | -0.03    | -0.02   | 3.57              | 0.02       | -0.01     | -1.84    |

**Notes:**

Voltage: n/a  
Time: 11:45  
Pump time: 25 minutes  
Purge: .5 gallon  
SDTW: 9.52  
FDTW: 9.52  
Parameters: Ammonia

Stick up well, locked



Troll 9000  
9/29/2016

Low-Flow System  
ISI Low-Flow Log

**Project Information:**

Operator Name Billy J Cobern  
Company Name ARCADIS  
Project Name SMI River Berm Sampling  
Site Name Racer Saginaw

**Pump Information:**

Pump Model/Type ProActive Athena  
Tubing Type LDPE  
Tubing Diameter 0.17 [in]  
Tubing Length 15 [ft]  
Pump placement from TOC 10.25 [ft]

**Well Information:**

Well ID MW-108WT  
Well diameter 2 [in]  
Well total depth 10.4 [ft]  
Depth to top of screen 5.5 [ft]  
Screen length 60 [in]  
Depth to Water 9.84 [ft]

**Pumping information:**

Final pumping rate 50 [mL/min]  
Flowcell volume 183.95 [mL]  
Calculated Sample Rate 221 [sec]  
Sample rate 300 [sec]  
Stabilized drawdown 0.72 [in]

**Low-Flow Sampling Stabilization Summary**

|                             | Time     | Temp [C] | pH [pH] | Cond [ $\mu$ S/cm @25C] | Turb [NTU]      | DO [mg/L]       | ORP [mV] |
|-----------------------------|----------|----------|---------|-------------------------|-----------------|-----------------|----------|
| Stabilization Settings      |          |          | +/-0.1  | +/-1<br>+/-3 %          | +/-1<br>+/-10 % | +/-1<br>+/-10 % | +/-10    |
| Last 5 Readings             | 10:50:18 | 16.58    | 6.96    | 308.68                  | 0.81            | 1.02            | -3.89    |
|                             | 10:55:20 | 16.58    | 6.71    | 308.90                  | 0.52            | 0.78            | -0.34    |
|                             | 11:00:22 | 16.62    | 6.63    | 308.94                  | 0.65            | 0.74            | 1.12     |
|                             | 11:05:24 | 16.58    | 6.57    | 309.86                  | 0.76            | 0.71            | 3.21     |
|                             | 11:10:26 | 16.59    | 6.55    | 310.13                  | 0.87            | 0.51            | 4.45     |
| Variance in last 3 readings | 11:00:22 | 0.03     | -0.09   | 0.03                    | 0.12            | -0.04           | 1.45     |
|                             | 11:05:24 | -0.04    | -0.05   | 0.93                    | 0.12            | -0.02           | 2.10     |
|                             | 11:10:26 | 0.01     | -0.02   | 0.26                    | 0.10            | -0.20           | 1.24     |

**Notes:**

Voltage: n/a  
Time: 11:10  
Pump time: 25 minutes  
Purge: .25 gallon  
SDTW: 9.90  
FDTW: 9.90  
Parameters: Ammonia, phosphorus, total manganese, TCL VOC's  
  
Stick up well, locked



Troll 9000  
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Low-Flow System  
ISI Low-Flow Log

**Project Information:**

Operator Name Billy J Cobern  
Company Name ARCADIS  
Project Name SMI River Berm Sampling  
Site Name Racer Saginaw

**Pump Information:**

Pump Model/Type ProActive Athena  
Tubing Type LDPE  
Tubing Diameter 0.17 [in]  
Tubing Length 18 [ft]  
Pump placement from TOC 13.5 [ft]

**Well Information:**

Well ID MW-110WTR  
Well diameter 2 [in]  
Well total depth 14 [ft]  
Depth to top of screen 9 [ft]  
Screen length 60 [in]  
Depth to Water 11.38 [ft]

**Pumping information:**

Final pumping rate 50 [mL/min]  
Flowcell volume 197.34 [mL]  
Calculated Sample Rate 237 [sec]  
Sample rate 300 [sec]  
Stabilized drawdown 0 [in]

**Low-Flow Sampling Stabilization Summary**

|                             |  | Time     | Temp [C] | pH [pH] | Cond [µS/cm @25C] | Turb [NTU]      | DO [mg/L]       | ORP [mV] |
|-----------------------------|--|----------|----------|---------|-------------------|-----------------|-----------------|----------|
| Stabilization Settings      |  |          |          | +/-0.1  | +/-1<br>+/-3 %    | +/-1<br>+/-10 % | +/-1<br>+/-10 % | +/-10    |
| Last 5 Readings             |  | 13:05:11 | 15.12    | 6.53    | 672.78            | 1.04            | 0.68            | -18.35   |
|                             |  | 13:10:14 | 14.98    | 6.48    | 678.18            | 1.35            | 0.49            | -20.32   |
|                             |  | 13:15:17 | 14.81    | 6.47    | 682.28            | 0.84            | 0.61            | -23.53   |
|                             |  | 13:20:19 | 14.69    | 6.47    | 683.18            | 0.86            | 0.53            | -26.74   |
|                             |  | 13:25:20 | 14.60    | 6.47    | 683.21            | 0.86            | 0.52            | -29.39   |
| Variance in last 3 readings |  | 13:15:17 | -0.17    | -0.01   | 4.10              | -0.51           | 0.11            | -3.21    |
|                             |  | 13:20:19 | -0.12    | 0.00    | 0.89              | 0.01            | -0.07           | -3.21    |
|                             |  | 13:25:20 | -0.09    | 0.00    | 0.03              | 0.01            | -0.01           | -2.65    |

**Notes:**

Voltage: n/a  
Time: 13:25  
Pump time: 35 minutes  
Purge: .35 gallon  
SDTW: n/a  
FDTW: 11.95  
Parameters: Ammonia, phosphorus, TDS, total manganese and thallium, total and dissolved PCB's

Stick up well, locked, didn't meet maximum drawdown requirement, drawdown didn't stabilize



Troll 9000  
9/29/2016

Low-Flow System  
ISI Low-Flow Log

**Project Information:**

Operator Name Billy J Cobern  
Company Name ARCADIS  
Project Name SMI River Berm Sampling  
Site Name Racer Saginaw

**Pump Information:**

Pump Model/Type ProActive Athena  
Tubing Type LDPE  
Tubing Diameter 0.17 [in]  
Tubing Length 18 [ft]  
Pump placement from TOC 11 [ft]

**Well Information:**

Well ID MW-111WT  
Well diameter 2 [in]  
Well total depth 12.9 [ft]  
Depth to top of screen 8 [ft]  
Screen length 60 [in]  
Depth to Water 8.5 [ft]

**Pumping information:**

Final pumping rate 50 [mL/min]  
Flowcell volume 197.34 [mL]  
Calculated Sample Rate 237 [sec]  
Sample rate 300 [sec]  
Stabilized drawdown 0 [in]

**Low-Flow Sampling Stabilization Summary**

|                             | Time     | Temp [C] | pH [pH] | Cond [ $\mu$ S/cm @25C] | Turb [NTU]      | DO [mg/L]       | ORP [mV] |
|-----------------------------|----------|----------|---------|-------------------------|-----------------|-----------------|----------|
| Stabilization Settings      |          |          | +/-0.1  | +/-1<br>+/-3 %          | +/-1<br>+/-10 % | +/-1<br>+/-10 % | +/-10    |
| Last 5 Readings             | 13:45:05 | 15.59    | 6.68    | 389.20                  | 1.66            | 0.63            | -27.04   |
|                             | 13:50:07 | 15.46    | 6.66    | 378.75                  | 1.21            | 0.56            | -29.48   |
|                             | 13:55:10 | 15.44    | 6.66    | 402.77                  | 0.98            | 0.51            | -31.92   |
|                             | 14:00:11 | 15.43    | 6.66    | 403.50                  | 1.03            | 0.50            | -32.31   |
|                             | 14:05:12 | 15.43    | 6.66    | 403.29                  | 1.02            | 0.50            | -32.78   |
| Variance in last 3 readings | 13:55:10 | -0.03    | 0.00    | 24.02                   | -0.22           | -0.05           | -2.44    |
|                             | 14:00:11 | 0.00     | 0.00    | 0.73                    | 0.04            | -0.01           | -0.39    |
|                             | 14:05:12 | -0.01    | 0.01    | -0.21                   | -0.01           | -0.01           | -0.47    |

**Notes:**

Voltage: n/a  
Time: 14:05  
Pump time: 30 minutes  
Purge: .3 gallon  
SDTW: n/a  
FDTW: 9.25  
Parameters: Ammonia, phosphorus, total manganese and thallium, total and dissolved PCB's  
  
Stick up well, locked, didn't meet maximum drawdown requirement, drawdown didn't stabilize



Troll 9000  
9/29/2016

Low-Flow System  
ISI Low-Flow Log

**Project Information:**

Operator Name Billy J Cobern  
Company Name ARCADIS  
Project Name SMI River Berm Sampling  
Site Name Racer Saginaw

**Pump Information:**

Pump Model/Type ProActive Athena  
Tubing Type LDPE  
Tubing Diameter 0.17 [in]  
Tubing Length 35 [ft]  
Pump placement from TOC 28 [ft]

**Well Information:**

Well ID MW-114S2  
Well diameter 2 [in]  
Well total depth 30.85 [ft]  
Depth to top of screen 26 [ft]  
Screen length 60 [in]  
Depth to Water 9.93 [ft]

**Pumping information:**

Final pumping rate 50 [mL/min]  
Flowcell volume 273.22 [mL]  
Calculated Sample Rate 328 [sec]  
Sample rate 300 [sec]  
Stabilized drawdown 1.44 [in]

**Low-Flow Sampling Stabilization Summary**

|                             |          | Time  | Temp [C] | pH [pH] | Cond [μS/cm @25C] | Turb [NTU] | DO [mg/L] | ORP [mV] |
|-----------------------------|----------|-------|----------|---------|-------------------|------------|-----------|----------|
| Stabilization Settings      |          |       |          | +/-0.1  | +/-1              | +/-1       | +/-1      | +/-10    |
|                             |          |       |          |         | +/-3 %            | +/-10 %    | +/-10 %   |          |
| Last 5 Readings             | 16:50:28 | 16.03 | 6.95     | 248.54  | 0.84              | 0.59       | -41.41    |          |
|                             | 16:55:29 | 16.03 | 6.95     | 250.44  | 0.84              | 0.59       | -41.75    |          |
|                             | 17:00:30 | 16.03 | 6.96     | 252.65  | 0.82              | 0.59       | -42.05    |          |
|                             | 17:05:31 | 16.02 | 6.96     | 255.00  | 0.81              | 0.57       | -42.31    |          |
|                             | 17:10:32 | 16.01 | 6.96     | 257.24  | 1.02              | 0.45       | -42.57    |          |
| Variance in last 3 readings | 17:00:30 | 0.01  | 0.00     | 2.21    | -0.02             | 0.00       | -0.30     |          |
|                             | 17:05:31 | -0.02 | 0.00     | 2.34    | -0.01             | -0.02      | -0.26     |          |
|                             | 17:10:32 | 0.00  | 0.00     | 2.24    | 0.21              | -0.11      | -0.26     |          |

**Notes:**

Voltage: n/a  
Time: 17:10  
Pump time: 25 minutes  
Purge: .25 gallon  
SDTW: 10.05  
FDTW: 10.95  
Parameters: Ammonia

Stick up well, locked





Troll 9000  
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Low-Flow System  
ISI Low-Flow Log

**Project Information:**

Operator Name Billy J Cobern  
Company Name ARCADIS  
Project Name SMI River Berm Sampling  
Site Name Racer Saginaw

**Pump Information:**

Pump Model/Type ProActive Athena  
Tubing Type LDPE  
Tubing Diameter 0.17 [in]  
Tubing Length 15 [ft]  
Pump placement from TOC 10 [ft]

**Well Information:**

Well ID MW-114WT  
Well diameter 2 [in]  
Well total depth 10.95 [ft]  
Depth to top of screen 6 [ft]  
Screen length 60 [in]  
Depth to Water 7.64 [ft]

**Pumping information:**

Final pumping rate 50 [mL/min]  
Flowcell volume 183.95 [mL]  
Calculated Sample Rate 221 [sec]  
Sample rate 300 [sec]  
Stabilized drawdown 0 [in]

**Low-Flow Sampling Stabilization Summary**

|                             | Time     | Temp [C] | pH [pH] | Cond [ $\mu$ S/cm @25C] | Turb [NTU]      | DO [mg/L]       | ORP [mV] |
|-----------------------------|----------|----------|---------|-------------------------|-----------------|-----------------|----------|
| Stabilization Settings      |          |          | +/-0.1  | +/-1<br>+/-3 %          | +/-1<br>+/-10 % | +/-1<br>+/-10 % | +/-10    |
| Last 5 Readings             | 16:15:14 | 18.29    | 6.84    | 278.48                  | 1.09            | 0.70            | 1.97     |
|                             | 16:20:16 | 18.43    | 6.79    | 276.96                  | 0.98            | 0.66            | -6.33    |
|                             | 16:25:19 | 18.48    | 6.78    | 277.48                  | 1.68            | 0.45            | -16.34   |
|                             | 16:30:21 | 18.52    | 6.77    | 276.72                  | 1.65            | 0.62            | -20.83   |
|                             | 16:35:23 | 18.51    | 6.77    | 277.18                  | 1.39            | 0.66            | -21.73   |
| Variance in last 3 readings | 16:25:19 | 0.05     | -0.01   | 0.53                    | 0.70            | -0.21           | -10.01   |
|                             | 16:30:21 | 0.03     | -0.02   | -0.77                   | -0.03           | 0.17            | -4.49    |
|                             | 16:35:23 | -0.01    | 0.00    | 0.47                    | -0.26           | 0.04            | -0.90    |

**Notes:**

Voltage: n/a  
Time: 16:35  
Pump time: 30 minutes  
Purge: .3 gallon  
SDTW: n/a  
FDTW: 8.75  
Parameters: Ammonia, phosphorus, total Manganese, Total thallium, total and dissolved PCB's  
  
Stick up well, locked, didn't meet maximum drawdown requirement, drawdown didn't stabilize



Troll 9000  
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Low-Flow System  
ISI Low-Flow Log

**Project Information:**

Operator Name Billy J Cobern  
Company Name ARCADIS  
Project Name Green Point Landfill  
Site Name Racer Saginaw

**Pump Information:**

Pump Model/Type ProActive Athena  
Tubing Type LDPE  
Tubing Diameter 0.17 [in]  
Tubing Length 34 [ft]  
Pump placement from TOC 30 [ft]

**Well Information:**

Well ID MW-117S1  
Well diameter 2 [in]  
Well total depth 32.8 [ft]  
Depth to top of screen 28 [ft]  
Screen length 60 [in]  
Depth to Water 2 [ft]

**Pumping information:**

Final pumping rate 100 [mL/min]  
Flowcell volume 268.76 [mL]  
Calculated Sample Rate 162 [sec]  
Sample rate 390 [sec]  
Stabilized drawdown 0.48 [in]

**Low-Flow Sampling Stabilization Summary**

|                             | Time     | Temp [C] | pH [pH] | Cond [ $\mu$ S/cm @25C] | Turb [NTU]      | DO [mg/L]       | ORP [mV] |
|-----------------------------|----------|----------|---------|-------------------------|-----------------|-----------------|----------|
| Stabilization Settings      |          |          | +/-0.1  | +/-1<br>+/-3 %          | +/-1<br>+/-10 % | +/-1<br>+/-10 % | +/-10    |
| Last 5 Readings             | 15:04:22 | 15.71    | 6.61    | 632.22                  | 4.78            | 0.83            | -26.03   |
|                             | 15:10:54 | 15.94    | 6.66    | 640.09                  | 4.91            | 0.61            | -37.14   |
|                             | 15:17:25 | 15.76    | 6.51    | 642.53                  | 6.79            | 0.89            | -30.76   |
|                             | 15:23:56 | 15.72    | 6.56    | 643.36                  | 7.99            | 0.90            | -34.02   |
|                             | 15:30:27 | 15.64    | 6.56    | 643.30                  | 7.99            | 0.89            | -34.70   |
| Variance in last 3 readings | 15:17:25 | -0.18    | -0.16   | 2.43                    | 1.88            | 0.28            | 6.37     |
|                             | 15:23:56 | -0.04    | 0.05    | 0.83                    | 1.20            | 0.01            | -3.25    |
|                             | 15:30:27 | -0.07    | 0.00    | -0.06                   | 0.00            | -0.01           | -0.68    |

**Notes:**

Voltage: n/a  
Time: 15:30  
Pump time: 65 minutes  
Purge: 1.3 gallons  
SDTW: 2.04  
FDTW: 2.04  
Parameters: Dissolved metals, total and dissolved cyanide, TDS, pH, sulfate, chloride, nitrate, nitrite, ammonia  
  
Stick up well, locked



Troll 9000  
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Low-Flow System  
ISI Low-Flow Log

**Project Information:**

Operator Name Billy J Cobern  
Company Name Arcadis  
Project Name Green Point Landfill  
Site Name Racer Saginaw

**Pump Information:**

Pump Model/Type ProActive Athena  
Tubing Type LDPE  
Tubing Diameter 0.17 [in]  
Tubing Length 16 [ft]  
Pump placement from TOC 12 [ft]

**Well Information:**

Well ID MW-117WT  
Well diameter 2 [in]  
Well total depth 15.25 [ft]  
Depth to top of screen 10 [ft]  
Screen length 60 [in]  
Depth to Water 1.65 [ft]

**Pumping information:**

Final pumping rate 100 [mL/min]  
Flowcell volume 188.42 [mL]  
Calculated Sample Rate 114 [sec]  
Sample rate 300 [sec]  
Stabilized drawdown 1.2 [in]

**Low-Flow Sampling Stabilization Summary**

|                             | Time     | Temp [C] | pH [pH] | Cond [µS/cm @25C] | Turb [NTU]      | DO [mg/L]       | ORP [mV] |
|-----------------------------|----------|----------|---------|-------------------|-----------------|-----------------|----------|
| Stabilization Settings      |          |          | +/-0.1  | +/-1<br>+/-3 %    | +/-1<br>+/-10 % | +/-1<br>+/-10 % | +/-10    |
| Last 5 Readings             | 14:50:21 | 15.33    | 6.74    | 9309.53           | 2.85            | 0.33            | -141.64  |
|                             | 14:55:23 | 15.19    | 6.73    | 9251.71           | 1.79            | 0.33            | -146.73  |
|                             | 15:00:24 | 15.14    | 6.73    | 9264.20           | 2.00            | 0.32            | -150.88  |
|                             | 15:05:26 | 15.08    | 6.72    | 9407.72           | 2.99            | 0.31            | -154.27  |
|                             | 15:10:28 | 15.85    | 6.71    | 9531.29           | 2.72            | 0.30            | -157.64  |
| Variance in last 3 readings | 15:00:24 | -0.06    | 0.00    | 12.49             | 0.21            | 0.00            | -4.15    |
|                             | 15:05:26 | -0.05    | 0.00    | 143.52            | 0.99            | -0.01           | -3.38    |
|                             | 15:10:28 | 0.76     | -0.01   | 123.57            | -0.27           | -0.01           | -3.38    |

**Notes:**

Time:15:10  
Pump Time: 40 minutes  
Purge Volume: .8 gallon  
SDTW: 1.75  
FDTW: 1.75  
Parameters: Dissolved metals, total and dissolved cyanide, pH, sulfate, chloride, nitrate, nitrite, TDS, Ammonia  
  
Stick up well, locked



Troll 9000  
9/27/2016

Low-Flow System  
ISI Low-Flow Log

**Project Information:**

Operator Name Billy J Cobern  
Company Name ARCADIS  
Project Name Green Point Landfill  
Site Name Racer Saginaw

**Pump Information:**

Pump Model/Type ProActive Athena  
Tubing Type LDPE  
Tubing Diameter 0.17 [in]  
Tubing Length 33 [ft]  
Pump placement from TOC 29 [ft]

**Well Information:**

Well ID MW-118S1  
Well diameter 2 [in]  
Well total depth 31.7 [ft]  
Depth to top of screen 27 [ft]  
Screen length 60 [in]  
Depth to Water 1.7 [ft]

**Pumping information:**

Final pumping rate 100 [mL/min]  
Flowcell volume 264.29 [mL]  
Calculated Sample Rate 159 [sec]  
Sample rate 300 [sec]  
Stabilized drawdown 0.6 [in]

**Low-Flow Sampling Stabilization Summary**

|                             |  | Time     | Temp [C] | pH [pH] | Cond [ $\mu$ S/cm @25C] | Turb [NTU]      | DO [mg/L]       | ORP [mV] |
|-----------------------------|--|----------|----------|---------|-------------------------|-----------------|-----------------|----------|
| Stabilization Settings      |  |          |          | +/-0.1  | +/-1<br>+/-3 %          | +/-1<br>+/-10 % | +/-1<br>+/-10 % | +/-10    |
| Last 5 Readings             |  | 13:00:35 | 13.98    | 6.68    | 658.84                  | 4.54            | 0.99            | 43.01    |
|                             |  | 13:05:37 | 14.49    | 6.80    | 656.49                  | 4.93            | 0.95            | 21.84    |
|                             |  | 13:10:38 | 14.42    | 6.71    | 661.89                  | 7.64            | 0.92            | 15.34    |
|                             |  | 13:15:40 | 14.37    | 6.71    | 662.15                  | 8.01            | 0.95            | 14.52    |
|                             |  | 13:20:42 | 14.30    | 6.71    | 662.48                  | 7.91            | 0.94            | 13.84    |
| Variance in last 3 readings |  | 13:10:38 | -0.07    | -0.09   | 5.40                    | 2.71            | -0.03           | -6.50    |
|                             |  | 13:15:40 | -0.05    | 0.00    | 0.27                    | 0.37            | 0.03            | -0.81    |
|                             |  | 13:20:42 | -0.06    | 0.00    | 0.33                    | -0.10           | -0.01           | -0.68    |

**Notes:**

Voltage: n/a  
Time: 13:20  
Pump time: 60 minutes  
Purge: 1.2 gallons  
SDTW: 1.75  
FDTW: 1.75  
Parameters: Dissolved metals, total and dissolved cyanide, TDS, pH, sulfate, chloride, nitrate, nitrite, ammonia  
  
Stick up well, locked



Troll 9000  
9/27/2016

Low-Flow System  
ISI Low-Flow Log

**Project Information:**

Operator Name Billy J Cobern  
Company Name Arcadis  
Project Name Green Point Landfill  
Site Name Racer Saginaw

**Pump Information:**

Pump Model/Type ProActive Athena  
Tubing Type LDPE  
Tubing Diameter 0.18 [in]  
Tubing Length 16 [ft]  
Pump placement from TOC 11 [ft]

**Well Information:**

Well ID MW-118WT  
Well diameter 2 [in]  
Well total depth 14.3 [ft]  
Depth to top of screen 9 [ft]  
Screen length 60 [in]  
Depth to Water 2.75 [ft]

**Pumping information:**

Final pumping rate 50 [mL/min]  
Flowcell volume 197.06 [mL]  
Calculated Sample Rate 237 [sec]  
Sample rate 300 [sec]  
Stabilized drawdown 2.4 [in]

**Low-Flow Sampling Stabilization Summary**

|                             | Time     | Temp [C] | pH [pH] | Cond [ $\mu$ S/cm @25C] | Turb [NTU]      | DO [mg/L]       | ORP [mV] |
|-----------------------------|----------|----------|---------|-------------------------|-----------------|-----------------|----------|
| Stabilization Settings      |          |          | +/-0.1  | +/-1<br>+/-3 %          | +/-1<br>+/-10 % | +/-1<br>+/-10 % | +/-10    |
| Last 5 Readings             | 12:40:25 | 15.28    | 6.98    | 2013.46                 | 1.03            | 7.44            | -143.36  |
|                             | 12:45:27 | 15.41    | 6.98    | 2038.14                 | 0.80            | 7.15            | -149.18  |
|                             | 12:50:28 | 16.25    | 6.98    | 2034.27                 | 0.74            | 6.76            | -154.44  |
|                             | 12:55:29 | 16.04    | 6.99    | 2023.13                 | 2.07            | 6.56            | -158.36  |
|                             | 13:00:32 | 15.74    | 6.99    | 2072.38                 | 0.79            | 6.36            | -161.44  |
| Variance in last 3 readings | 12:50:28 | 0.83     | 0.00    | -3.87                   | -0.05           | -0.39           | -5.26    |
|                             | 12:55:29 | -0.21    | 0.00    | -11.14                  | 1.33            | -0.20           | -3.93    |
|                             | 13:00:32 | -0.29    | 0.00    | 49.25                   | -1.28           | -0.20           | -3.08    |

**Notes:**

Time:13:00  
Pump Time: 50 minutes  
Purge Volume: .5 gallon  
SDTW: 2.95  
FDTW: 2.95  
Parameters: Dissolved metals, total and dissolved cyanide, pH, sulfate, chloride, nitrate, nitrite, TDS, Ammonia  
  
Stick up well, locked



Troll 9000  
9/29/2016

Low-Flow System  
ISI Low-Flow Log

**Project Information:**

Operator Name Billy J Cobern  
Company Name ARCADIS  
Project Name SMI River Berm Sampling  
Site Name Racer Saginaw

**Pump Information:**

Pump Model/Type ProActive Athena  
Tubing Type LDPE  
Tubing Diameter 0.17 [in]  
Tubing Length 22 [ft]  
Pump placement from TOC 17 [ft]

**Well Information:**

Well ID MW-149WT  
Well diameter 2 [in]  
Well total depth 20.35 [ft]  
Depth to top of screen 15 [ft]  
Screen length 60 [in]  
Depth to Water 11.41 [ft]

**Pumping information:**

Final pumping rate 50 [mL/min]  
Flowcell volume 215.2 [mL]  
Calculated Sample Rate 259 [sec]  
Sample rate 300 [sec]  
Stabilized drawdown 0 [in]

**Low-Flow Sampling Stabilization Summary**

|                             | Time    | Temp [C] | pH [pH] | Cond [ $\mu$ S/cm @25C] | Turb [NTU]      | DO [mg/L]       | ORP [mV] |
|-----------------------------|---------|----------|---------|-------------------------|-----------------|-----------------|----------|
| Stabilization Settings      |         |          | +/-0.1  | +/-1<br>+/-3 %          | +/-1<br>+/-10 % | +/-1<br>+/-10 % | +/-10    |
| Last 5 Readings             | 7:35:26 | 14.83    | 6.51    | 456.21                  | 1.70            | 0.87            | 70.79    |
|                             | 7:40:28 | 14.83    | 6.49    | 455.59                  | 1.62            | 0.77            | 60.18    |
|                             | 7:45:29 | 14.94    | 6.49    | 454.66                  | 1.64            | 0.71            | 50.47    |
|                             | 7:50:31 | 14.94    | 6.50    | 454.41                  | 1.76            | 0.62            | 49.19    |
|                             | 7:55:34 | 14.93    | 6.50    | 454.57                  | 1.89            | 0.56            | 48.33    |
| Variance in last 3 readings | 7:45:29 | 0.11     | 0.00    | -0.92                   | 0.02            | -0.06           | -9.71    |
|                             | 7:50:31 | 0.00     | 0.01    | -0.25                   | 0.12            | -0.09           | -1.28    |
|                             | 7:55:34 | -0.01    | 0.01    | 0.16                    | 0.14            | -0.05           | -0.86    |

**Notes:**

Voltage: n/a  
Time: 7:55  
Pump time: 50 minutes  
Purge: .5 gallon  
SDTW: n/a  
FDTW: 12.56  
Parameters: Ammonia, phosphorus, total Arsenic, Total thallium

Stick up well, locked, didn't meet maximum drawdown requirement, drawdown didn't stabilize,  
MSMSD, DUP-03



Troll 9000  
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Low-Flow System  
ISI Low-Flow Log

**Project Information:**

Operator Name Billy J Cobern  
Company Name Arcadis  
Project Name Green Point Landfill  
Site Name Racer Saginaw

**Pump Information:**

Pump Model/Type ProActive Athena  
Tubing Type LDPE  
Tubing Diameter 0.17 [in]  
Tubing Length 25 [ft]  
Pump placement from TOC 15 [ft]

**Well Information:**

Well ID MW-183WT  
Well diameter 2 [in]  
Well total depth 18.4 [ft]  
Depth to top of screen 13.5 [ft]  
Screen length 60 [in]  
Depth to Water 8.3 [ft]

**Pumping information:**

Final pumping rate 50 [mL/min]  
Flowcell volume 228.59 [mL]  
Calculated Sample Rate 275 [sec]  
Sample rate 300 [sec]  
Stabilized drawdown 1.44 [in]

**Low-Flow Sampling Stabilization Summary**

|                             |          | Time  | Temp [C] | pH [pH] | Cond [μS/cm @25C] | Turb [NTU] | DO [mg/L] | ORP [mV] |
|-----------------------------|----------|-------|----------|---------|-------------------|------------|-----------|----------|
| Stabilization Settings      |          |       |          | +/-0.1  | +/-1              | +/-1       | +/-1      | +/-10    |
|                             |          |       |          |         | +/-3 %            | +/-10 %    | +/-10 %   |          |
| Last 5 Readings             | 15:10:15 | 16.50 | 7.37     | 1216.90 | 0.34              | 0.23       | -103.80   |          |
|                             | 15:15:19 | 16.46 | 7.32     | 1247.30 | 0.17              | 0.21       | -110.56   |          |
|                             | 15:20:21 | 16.55 | 7.28     | 1270.16 | 0.27              | 0.18       | -116.17   |          |
|                             | 15:25:22 | 16.72 | 7.25     | 1276.13 | 0.28              | 0.19       | -121.21   |          |
|                             | 15:30:24 | 16.52 | 7.23     | 1299.47 | 0.20              | 0.18       | -125.02   |          |
| Variance in last 3 readings | 15:20:21 | 0.08  | -0.04    | 22.85   | 0.10              | -0.03      | -5.60     |          |
|                             | 15:25:22 | 0.18  | -0.03    | 5.97    | 0.00              | 0.01       | -5.05     |          |
|                             | 15:30:24 | -0.20 | -0.02    | 23.34   | -0.08             | -0.02      | -3.81     |          |

**Notes:**

Time: 15:30  
Pump Time: 35 minutes  
Purge Volume: .35 gallon  
SDTW: 8.42  
FDTW: 8.42  
Parameters: Total and Dissolved metals, total and dissolved cyanide, pH, sulfate, chloride, nitrate, nitrite, TDS, Ammonia  
  
Stick up well, locked, MSMSD, DUP-02



Troll 9000  
9/30/2016

Low-Flow System  
ISI Low-Flow Log

**Project Information:**

Operator Name Billy J Cobern  
Company Name ARCADIS  
Project Name SMI River Berm Sampling  
Site Name Racer Saginaw

**Pump Information:**

Pump Model/Type ProActive Athena  
Tubing Type LDPE  
Tubing Diameter 0.17 [in]  
Tubing Length 14 [ft]  
Pump placement from TOC 9 [ft]

**Well Information:**

Well ID MW-185WT  
Well diameter 2 [in]  
Well total depth 10.45 [ft]  
Depth to top of screen 5.5 [ft]  
Screen length 60 [in]  
Depth to Water 5.9 [ft]

**Pumping information:**

Final pumping rate 50 [mL/min]  
Flowcell volume 179.49 [mL]  
Calculated Sample Rate 216 [sec]  
Sample rate 300 [sec]  
Stabilized drawdown 0.24 [in]

**Low-Flow Sampling Stabilization Summary**

|                             | Time    | Temp [C] | pH [pH] | Cond [µS/cm @25C] | Turb [NTU]      | DO [mg/L]       | ORP [mV] |
|-----------------------------|---------|----------|---------|-------------------|-----------------|-----------------|----------|
| Stabilization Settings      |         |          | +/-0.1  | +/-1<br>+/-3 %    | +/-1<br>+/-10 % | +/-1<br>+/-10 % | +/-10    |
| Last 5 Readings             | 8:35:17 | 18.76    | 7.27    | 213.13            | 0.85            | 0.55            | 92.67    |
|                             | 8:40:19 | 18.90    | 7.28    | 213.64            | 1.14            | 0.45            | 83.30    |
|                             | 8:45:20 | 19.16    | 7.27    | 211.89            | 1.27            | 0.33            | 77.27    |
|                             | 8:50:23 | 19.12    | 7.24    | 213.21            | 0.75            | 0.37            | 73.55    |
|                             | 8:55:25 | 19.12    | 7.18    | 212.77            | 1.05            | 0.37            | 74.88    |
| Variance in last 3 readings | 8:45:20 | 0.27     | -0.01   | -1.75             | 0.13            | -0.11           | -6.03    |
|                             | 8:50:23 | -0.05    | -0.03   | 1.33              | -0.53           | 0.04            | -3.72    |
|                             | 8:55:25 | 0.00     | -0.06   | -0.45             | 0.31            | 0.00            | 1.33     |

**Notes:**

Voltage: n/a  
Time: 8:55  
Pump time: 25 minutes  
Purge: .25 gallon  
SDTW: 5.92  
FDTW: 5.92  
Parameters: Ammonia, phosphorus, total Manganese, Total thallium, total and dissolved PCB's  
  
Stick up well, locked





Troll 9000  
9/30/2016

Low-Flow System  
ISI Low-Flow Log

**Project Information:**

Operator Name Billy J Cobern  
Company Name ARCADIS  
Project Name SMI River Berm Sampling  
Site Name Racer Saginaw

**Pump Information:**

Pump Model/Type ProActive Athena  
Tubing Type LDPE  
Tubing Diameter 0.17 [in]  
Tubing Length 28 [ft]  
Pump placement from TOC 18 [ft]

**Well Information:**

Well ID MW-186WT  
Well diameter 2 [in]  
Well total depth 21.25 [ft]  
Depth to top of screen 16 [ft]  
Screen length 60 [in]  
Depth to Water 8.48 [ft]

**Pumping information:**

Final pumping rate 50 [mL/min]  
Flowcell volume 241.98 [mL]  
Calculated Sample Rate 291 [sec]  
Sample rate 300 [sec]  
Stabilized drawdown 0 [in]

**Low-Flow Sampling Stabilization Summary**

|                             | Time    | Temp [C] | pH [pH] | Cond [ $\mu$ S/cm @25C] | Turb [NTU]      | DO [mg/L]       | ORP [mV] |
|-----------------------------|---------|----------|---------|-------------------------|-----------------|-----------------|----------|
| Stabilization Settings      |         |          | +/-0.1  | +/-1<br>+/-3 %          | +/-1<br>+/-10 % | +/-1<br>+/-10 % | +/-10    |
| Last 5 Readings             | 7:50:43 | 15.47    | 6.90    | 294.64                  | 2.71            | 0.48            | 102.98   |
|                             | 7:55:45 | 15.46    | 6.90    | 294.73                  | 3.75            | 0.47            | 101.91   |
|                             | 8:00:46 | 15.45    | 6.90    | 294.72                  | 2.44            | 0.47            | 101.05   |
|                             | 8:05:48 | 15.46    | 6.90    | 294.61                  | 2.45            | 0.46            | 100.11   |
|                             | 8:10:49 | 15.47    | 6.90    | 294.56                  | 2.43            | 0.46            | 99.39    |
| Variance in last 3 readings | 8:00:46 | -0.01    | 0.00    | -0.01                   | -1.30           | 0.00            | -0.86    |
|                             | 8:05:48 | 0.01     | 0.00    | -0.11                   | 0.01            | -0.01           | -0.94    |
|                             | 8:10:49 | 0.01     | 0.00    | -0.05                   | -0.01           | 0.00            | -0.73    |

**Notes:**

Voltage: n/a  
Time: 8:19  
Pump time: 70 minutes  
Purge: .7 gallon  
SDTW: n/a  
FDTW: 9.75  
Parameters: Ammonia, phosphorus, total Manganese, Total thallium, total and dissolved PCB's

Stick up well, locked, didn't meet maximum drawdown requirement, drawdown didn't stabilize,  
MSMSD, DUP-04



Troll 9000  
9/27/2016

Low-Flow System  
ISI Low-Flow Log

**Project Information:**

Operator Name Billy J Cobern  
Company Name Arcadis  
Project Name Green Point Landfill  
Site Name Racer Saginaw

**Pump Information:**

Pump Model/Type ProActive Athena  
Tubing Type LDPE  
Tubing Diameter 0.17 [in]  
Tubing Length 14 [ft]  
Pump placement from TOC 9 [ft]

**Well Information:**

Well ID TMW-1  
Well diameter 2 [in]  
Well total depth 10.8 [ft]  
Depth to top of screen 6 [ft]  
Screen length 60 [in]  
Depth to Water 6.73 [ft]

**Pumping information:**

Final pumping rate 100 [mL/min]  
Flowcell volume 179.49 [mL]  
Calculated Sample Rate 108 [sec]  
Sample rate 300 [sec]  
Stabilized drawdown 1.44 [in]

**Low-Flow Sampling Stabilization Summary**

|                             | Time     | Temp [C] | pH [pH] | Cond [ $\mu$ S/cm @25C] | Turb [NTU]      | DO [mg/L]       | ORP [mV] |
|-----------------------------|----------|----------|---------|-------------------------|-----------------|-----------------|----------|
| Stabilization Settings      |          |          | +/-0.1  | +/-1<br>+/-3 %          | +/-1<br>+/-10 % | +/-1<br>+/-10 % | +/-10    |
| Last 5 Readings             | 16:45:29 | 17.77    | 7.14    | 2800.02                 | 0.79            | 0.28            | -141.12  |
|                             | 16:50:31 | 17.72    | 7.13    | 2588.50                 | 0.74            | 0.26            | -150.88  |
|                             | 16:55:33 | 17.86    | 7.10    | 2494.75                 | 0.91            | 0.28            | -154.39  |
|                             | 17:00:36 | 17.91    | 7.08    | 2510.65                 | 1.58            | 0.32            | -155.37  |
|                             | 17:05:37 | 18.04    | 7.06    | 2531.79                 | 1.56            | 0.34            | -156.95  |
| Variance in last 3 readings | 16:55:33 | 0.14     | -0.03   | -93.74                  | 0.16            | 0.02            | -3.51    |
|                             | 17:00:36 | 0.05     | -0.02   | 15.90                   | 0.68            | 0.04            | -0.98    |
|                             | 17:05:37 | 0.13     | -0.02   | 21.14                   | -0.03           | 0.02            | -1.58    |

**Notes:**

Time:17:05  
Pump Time: 25 minutes  
Purge Volume: .5 gallon  
SDTW: 6.85  
FDTW: 6.85  
Parameters: TCL VOC's  
  
Stick up well, no lock, DUP-01



Troll 9000  
9/28/2016

Low-Flow System  
ISI Low-Flow Log

**Project Information:**

Operator Name Billy J Cobern  
Company Name ARCADIS  
Project Name Green Point Landfill  
Site Name Racer Saginaw

**Pump Information:**

Pump Model/Type ProActive Athena  
Tubing Type LDPE  
Tubing Diameter 0.17 [in]  
Tubing Length 12 [ft]  
Pump placement from TOC 7.5 [ft]

**Well Information:**

Well ID X-4AR  
Well diameter 2 [in]  
Well total depth 7.8 [ft]  
Depth to top of screen 3 [ft]  
Screen length 60 [in]  
Depth to Water 6.42 [ft]

**Pumping information:**

Final pumping rate 50 [mL/min]  
Flowcell volume 170.56 [mL]  
Calculated Sample Rate 205 [sec]  
Sample rate 300 [sec]  
Stabilized drawdown 3 [in]

**Low-Flow Sampling Stabilization Summary**

|                             |  | Time     | Temp [C] | pH [pH] | Cond [ $\mu$ S/cm @25C] | Turb [NTU]      | DO [mg/L]       | ORP [mV] |
|-----------------------------|--|----------|----------|---------|-------------------------|-----------------|-----------------|----------|
| Stabilization Settings      |  |          |          | +/-0.1  | +/-1<br>+/-3 %          | +/-1<br>+/-10 % | +/-1<br>+/-10 % | +/-10    |
| Last 5 Readings             |  | 0:00:00  | 0.00     | 0.00    | 0.00                    | 0.00            | 0.00            | 0.00     |
|                             |  | 12:30:12 | 16.58    | 7.17    | 424.71                  | 8.51            | 4.51            | -7.44    |
|                             |  | 12:35:15 | 16.44    | 7.00    | 389.56                  | 3.09            | 1.59            | 3.47     |
|                             |  | 12:40:17 | 16.56    | 7.08    | 367.34                  | 2.46            | 1.85            | 8.18     |
|                             |  | 12:45:20 | 17.08    | 7.23    | 360.18                  | 20.11           | 2.07            | 9.63     |
| Variance in last 3 readings |  | 12:35:15 | -0.14    | -0.17   | -35.15                  | -5.42           | -2.92           | 10.91    |
|                             |  | 12:40:17 | 0.12     | 0.08    | -22.22                  | -0.63           | 0.26            | 4.71     |
|                             |  | 12:45:20 | 0.52     | 0.15    | -7.16                   | 17.65           | 0.22            | 1.46     |

**Notes:**

Voltage: n/a  
Time:  
Pump time: 15 minutes  
Purge: .15 gallon  
SDTW: n/a  
FDTW: pumped dry  
Parameters: Total and Dissolved metals, total and dissolved cyanide, TDS, pH, sulfate, chloride, nitrate, nitrite, ammonia

Stick up well, locked, pumped dry, no recharge



Troll 9000  
9/28/2016

Low-Flow System  
ISI Low-Flow Log

**Project Information:**

Operator Name Billy J Cobern  
Company Name ARCADIS  
Project Name Green Point Landfill  
Site Name Racer Saginaw

**Pump Information:**

Pump Model/Type ProActive Athena  
Tubing Type LDPE  
Tubing Diameter 0.17 [in]  
Tubing Length 23 [ft]  
Pump placement from TOC 19 [ft]

**Well Information:**

Well ID X-4CAUGR  
Well diameter 2 [in]  
Well total depth 22.15 [ft]  
Depth to top of screen 17 [ft]  
Screen length 60 [in]  
Depth to Water 5.64 [ft]

**Pumping information:**

Final pumping rate 50 [mL/min]  
Flowcell volume 219.66 [mL]  
Calculated Sample Rate 264 [sec]  
Sample rate 300 [sec]  
Stabilized drawdown 0.12 [in]

**Low-Flow Sampling Stabilization Summary**

|                             |          | Time  | Temp [C] | pH [pH] | Cond [μS/cm @25C] | Turb [NTU]      | DO [mg/L]       | ORP [mV] |
|-----------------------------|----------|-------|----------|---------|-------------------|-----------------|-----------------|----------|
| Stabilization Settings      |          |       |          | +/-0.1  | +/-1<br>+/-3 %    | +/-1<br>+/-10 % | +/-1<br>+/-10 % | +/-10    |
| Last 5 Readings             | 13:05:29 | 14.95 | 6.81     | 403.77  | 1.03              | 1.07            | 9.21            |          |
|                             | 13:10:30 | 14.91 | 6.81     | 399.45  | 0.84              | 0.96            | 0.18            |          |
|                             | 13:15:33 | 14.84 | 6.78     | 397.65  | 2.05              | 0.87            | -5.29           |          |
|                             | 13:20:34 | 14.92 | 6.75     | 396.11  | 1.27              | 0.87            | -9.83           |          |
|                             | 13:25:37 | 14.88 | 6.78     | 396.16  | 0.68              | 0.85            | -14.23          |          |
| Variance in last 3 readings | 13:15:33 | -0.07 | -0.03    | -1.80   | 1.21              | -0.09           | -5.47           |          |
|                             | 13:20:34 | 0.08  | -0.03    | -1.54   | -0.79             | 0.00            | -4.53           |          |
|                             | 13:25:37 | -0.03 | 0.03     | 0.05    | -0.59             | -0.03           | -4.41           |          |

**Notes:**

Voltage: n/a  
Time: 13:25  
Pump time: 30 minutes  
Purge: .3 gallon  
SDTW: 5.65  
FDTW: 5.65  
Parameters: Total and Dissolved metals, total and dissolved cyanide, TDS, pH, sulfate, chloride, nitrate, nitrite, ammonia  
  
Stick up well, locked



Troll 9000  
9/28/2016

Low-Flow System  
ISI Low-Flow Log

**Project Information:**

Operator Name Billy J Cobern  
Company Name Arcadis  
Project Name Green Point Landfill  
Site Name Racer Saginaw

**Pump Information:**

Pump Model/Type ProActive Athena  
Tubing Type LDPE  
Tubing Diameter 0.17 [in]  
Tubing Length 48 [ft]  
Pump placement from TOC 44 [ft]

**Well Information:**

Well ID X-4D  
Well diameter 2 [in]  
Well total depth 47.2 [ft]  
Depth to top of screen 42 [ft]  
Screen length 60 [in]  
Depth to Water 2.74 [ft]

**Pumping information:**

Final pumping rate 50 [mL/min]  
Flowcell volume 331.25 [mL]  
Calculated Sample Rate 398 [sec]  
Sample rate 300 [sec]  
Stabilized drawdown 0.12 [in]

**Low-Flow Sampling Stabilization Summary**

|                             | Time     | Temp [C] | pH [pH] | Cond [µS/cm @25C] | Turb [NTU]      | DO [mg/L]       | ORP [mV] |
|-----------------------------|----------|----------|---------|-------------------|-----------------|-----------------|----------|
| Stabilization Settings      |          |          | +/-0.1  | +/-1<br>+/-3 %    | +/-1<br>+/-10 % | +/-1<br>+/-10 % | +/-10    |
| Last 5 Readings             | 13:00:31 | 15.13    | 7.32    | 4958.83           | 0.27            | 0.40            | -143.06  |
|                             | 13:05:31 | 15.06    | 7.33    | 4899.03           | 0.11            | 0.34            | -145.97  |
|                             | 13:10:33 | 15.14    | 7.34    | 4908.59           | 0.12            | 0.29            | -148.36  |
|                             | 13:15:36 | 15.19    | 7.35    | 4935.61           | 0.08            | 0.23            | -150.33  |
|                             | 13:20:36 | 15.05    | 7.35    | 4908.62           | 0.10            | 0.22            | -151.91  |
| Variance in last 3 readings | 13:10:33 | 0.08     | 0.01    | 9.56              | 0.02            | -0.05           | -2.39    |
|                             | 13:15:36 | 0.04     | 0.01    | 27.02             | -0.04           | -0.06           | -1.97    |
|                             | 13:20:36 | -0.13    | 0.00    | -26.99            | 0.02            | -0.01           | -1.58    |

**Notes:**

Time: 13:20  
Pump Time: 40 minutes  
Purge Volume: .4 gallon  
SDTW: 2.75  
FDTW: 2.75  
Parameters: Total and Dissolved metals, total and dissolved cyanide, pH, sulfate, chloride, nitrate, nitrite, TDS, Ammonia  
  
Stick up well, locked



Troll 9000  
9/28/2016

Low-Flow System  
ISI Low-Flow Log

**Project Information:**

Operator Name Billy J Cobern  
Company Name ARCADIS  
Project Name Green Point Landfill  
Site Name Racer Saginaw

**Pump Information:**

Pump Model/Type ProActive Athena  
Tubing Type LDPE  
Tubing Diameter 0.17 [in]  
Tubing Length 17 [ft]  
Pump placement from TOC 13 [ft]

**Well Information:**

Well ID X-9AR  
Well diameter 2 [in]  
Well total depth 16.05 [ft]  
Depth to top of screen 11 [ft]  
Screen length 60 [in]  
Depth to Water 7.95 [ft]

**Pumping information:**

Final pumping rate 50 [mL/min]  
Flowcell volume 192.88 [mL]  
Calculated Sample Rate 232 [sec]  
Sample rate 300 [sec]  
Stabilized drawdown 3.72 [in]

**Low-Flow Sampling Stabilization Summary**

|                             |  | Time     | Temp [C] | pH [pH] | Cond [ $\mu$ S/cm @25C] | Turb [NTU]      | DO [mg/L]       | ORP [mV] |
|-----------------------------|--|----------|----------|---------|-------------------------|-----------------|-----------------|----------|
| Stabilization Settings      |  |          |          | +/-0.1  | +/-1<br>+/-3 %          | +/-1<br>+/-10 % | +/-1<br>+/-10 % | +/-10    |
| Last 5 Readings             |  | 10:35:27 | 14.63    | 6.63    | 421.09                  | 2.85            | 0.68            | -47.54   |
|                             |  | 10:40:29 | 14.66    | 6.64    | 421.58                  | 3.26            | 0.63            | -50.44   |
|                             |  | 10:45:30 | 14.64    | 6.61    | 421.70                  | 4.18            | 0.65            | -50.57   |
|                             |  | 10:50:32 | 14.76    | 6.63    | 416.97                  | 4.34            | 0.61            | -54.12   |
|                             |  | 10:55:34 | 15.03    | 6.63    | 417.22                  | 1.95            | 0.66            | -56.94   |
| Variance in last 3 readings |  | 10:45:30 | -0.03    | -0.04   | 0.12                    | 0.92            | 0.02            | -0.13    |
|                             |  | 10:50:32 | 0.12     | 0.02    | -4.74                   | 0.17            | -0.04           | -3.55    |
|                             |  | 10:55:34 | 0.27     | 0.01    | 0.26                    | -2.39           | 0.04            | -2.82    |

**Notes:**

Voltage: n/a  
Time: 10:55  
Pump time: 65 minutes  
Purge: .65 gallon  
SDTW: 8.26  
FDTW: 8.26  
Parameters: Total and Dissolved metals, total and dissolved cyanide, TDS, pH, sulfate, chloride, nitrate, nitrite, ammonia  
  
Stick up well, locked



Troll 9000  
9/28/2016

Low-Flow System  
ISI Low-Flow Log

**Project Information:**

Operator Name Billy J Cobern  
Company Name Arcadis  
Project Name Green Point Landfill  
Site Name Racer Saginaw

**Pump Information:**

Pump Model/Type ProActive Athena  
Tubing Type LDPE  
Tubing Diameter 0.17 [in]  
Tubing Length 35 [ft]  
Pump placement from TOC 31 [ft]

**Well Information:**

Well ID X-9BR  
Well diameter 2 [in]  
Well total depth 34.1 [ft]  
Depth to top of screen 29 [ft]  
Screen length 60 [in]  
Depth to Water 7.15 [ft]

**Pumping information:**

Final pumping rate 50 [mL/min]  
Flowcell volume 273.22 [mL]  
Calculated Sample Rate 328 [sec]  
Sample rate 300 [sec]  
Stabilized drawdown 3.96 [in]

**Low-Flow Sampling Stabilization Summary**

|                             |  | Time     | Temp [C] | pH [pH] | Cond [ $\mu$ S/cm @25C] | Turb [NTU]      | DO [mg/L]       | ORP [mV] |
|-----------------------------|--|----------|----------|---------|-------------------------|-----------------|-----------------|----------|
| Stabilization Settings      |  |          |          | +/-0.1  | +/-1<br>+/-3 %          | +/-1<br>+/-10 % | +/-1<br>+/-10 % | +/-10    |
| Last 5 Readings             |  | 10:40:27 | 14.81    | 7.17    | 2029.07                 | 1.32            | 0.10            | -138.68  |
|                             |  | 10:45:28 | 14.92    | 7.18    | 2031.84                 | 1.52            | 0.10            | -151.12  |
|                             |  | 10:50:30 | 15.02    | 7.19    | 2036.05                 | 1.85            | 0.09            | -160.53  |
|                             |  | 10:55:32 | 15.32    | 7.19    | 2027.84                 | 2.32            | 0.09            | -168.01  |
|                             |  | 11:00:33 | 15.33    | 7.19    | 2020.00                 | 2.36            | 0.08            | -168.87  |
| Variance in last 3 readings |  | 10:50:30 | 0.10     | 0.01    | 4.22                    | 0.34            | -0.01           | -9.41    |
|                             |  | 10:55:32 | 0.29     | 0.00    | -8.21                   | 0.47            | -0.01           | -7.48    |
|                             |  | 11:00:33 | 0.01     | 0.00    | -7.84                   | 0.04            | -0.01           | -0.85    |

**Notes:**

Time: 11:00  
Pump Time: 55 minutes  
Purge Volume: .55 gallon  
SDTW: 7.48  
FDTW: 7.48  
Parameters: Total and Dissolved metals, total and dissolved cyanide, pH, sulfate, chloride, nitrate, nitrite, TDS, Ammonia  
  
Stick up well, locked



Troll 9000  
9/28/2016

Low-Flow System  
ISI Low-Flow Log

**Project Information:**

Operator Name Billy J Cobern  
Company Name ARCADIS  
Project Name Green Point Landfill  
Site Name Racer Saginaw

**Pump Information:**

Pump Model/Type ProActive Athena  
Tubing Type LDPE  
Tubing Diameter 0.17 [in]  
Tubing Length 29 [ft]  
Pump placement from TOC 25 [ft]

**Well Information:**

Well ID X-9CAUG  
Well diameter 2 [in]  
Well total depth 28.3 [ft]  
Depth to top of screen 23 [ft]  
Screen length 60 [in]  
Depth to Water 6.91 [ft]

**Pumping information:**

Final pumping rate 50 [mL/min]  
Flowcell volume 246.44 [mL]  
Calculated Sample Rate 296 [sec]  
Sample rate 300 [sec]  
Stabilized drawdown 0.48 [in]

**Low-Flow Sampling Stabilization Summary**

|                             | Time    | Temp [C] | pH [pH] | Cond [µS/cm @25C] | Turb [NTU]      | DO [mg/L]       | ORP [mV] |
|-----------------------------|---------|----------|---------|-------------------|-----------------|-----------------|----------|
| Stabilization Settings      |         |          | +/-0.1  | +/-1<br>+/-3 %    | +/-1<br>+/-10 % | +/-1<br>+/-10 % | +/-10    |
| Last 5 Readings             | 8:36:03 | 12.17    | 6.73    | 634.64            | 3.36            | 0.63            | 5.17     |
|                             | 8:41:04 | 12.22    | 6.74    | 634.33            | 3.70            | 0.59            | 1.74     |
|                             | 8:46:06 | 12.22    | 6.74    | 634.23            | 3.73            | 0.56            | 1.40     |
|                             | 8:51:08 | 12.23    | 6.74    | 634.24            | 3.93            | 0.59            | 0.76     |
|                             | 8:56:10 | 12.24    | 6.74    | 634.01            | 3.95            | 0.60            | 0.50     |
| Variance in last 3 readings | 8:46:06 | 0.00     | 0.00    | -0.10             | 0.03            | -0.03           | -0.34    |
|                             | 8:51:08 | 0.00     | 0.00    | 0.01              | 0.20            | 0.03            | -0.64    |
|                             | 8:56:10 | 0.01     | 0.00    | -0.22             | 0.03            | 0.01            | -0.26    |

**Notes:**

Voltage: n/a  
Time: 8:55  
Pump time: 120 minutes  
Purge: 1.2 gallons  
SDTW: 6.95  
FDTW: 6.95  
Parameters: Total and Dissolved metals, total and dissolved cyanide, TDS, pH, sulfate, chloride, nitrate, nitrite, ammonia  
  
Stick up well, locked





Troll 9000  
9/28/2016

Low-Flow System  
ISI Low-Flow Log

**Project Information:**

Operator Name Billy J Cobern  
Company Name Arcadis  
Project Name Green Point Landfill  
Site Name Racer Saginaw

**Pump Information:**

Pump Model/Type ProActive Athena  
Tubing Type LDPE  
Tubing Diameter 0.17 [in]  
Tubing Length 51 [ft]  
Pump placement from TOC 47 [ft]

**Well Information:**

Well ID X-9D  
Well diameter 2 [in]  
Well total depth 50.2 [ft]  
Depth to top of screen 45 [ft]  
Screen length 60 [in]  
Depth to Water 3.78 [ft]

**Pumping information:**

Final pumping rate 50 [mL/min]  
Flowcell volume 344.64 [mL]  
Calculated Sample Rate 414 [sec]  
Sample rate 300 [sec]  
Stabilized drawdown 0.12 [in]

**Low-Flow Sampling Stabilization Summary**

|                             | Time    | Temp [C] | pH [pH] | Cond [µS/cm @25C] | Turb [NTU]      | DO [mg/L]       | ORP [mV] |
|-----------------------------|---------|----------|---------|-------------------|-----------------|-----------------|----------|
| Stabilization Settings      |         |          | +/-0.1  | +/-1<br>+/-3 %    | +/-1<br>+/-10 % | +/-1<br>+/-10 % | +/-10    |
| Last 5 Readings             | 7:10:20 | 11.55    | 7.24    | 4600.07           | 1.21            | 0.23            | 168.47   |
|                             | 7:15:22 | 11.51    | 7.23    | 4610.44           | 0.59            | 0.17            | 168.24   |
|                             | 7:20:22 | 11.56    | 7.23    | 4573.75           | 0.82            | 0.15            | 167.59   |
|                             | 7:25:25 | 11.33    | 7.23    | 4631.50           | 0.68            | 0.14            | 167.08   |
|                             | 7:30:27 | 11.20    | 7.23    | 4567.57           | 1.24            | 0.12            | 166.31   |
| Variance in last 3 readings | 7:20:22 | 0.05     | 0.00    | -36.69            | 0.23            | -0.01           | -0.65    |
|                             | 7:25:25 | -0.23    | 0.00    | 57.75             | -0.15           | -0.02           | -0.52    |
|                             | 7:30:27 | -0.13    | 0.00    | -63.93            | 0.56            | -0.02           | -0.77    |

**Notes:**

Time: 7:30  
Pump Time: 40 minutes  
Purge Volume: .4 gallon  
SDTW: 3.79  
FDTW: 3.79  
Parameters: Total and Dissolved metals, total and dissolved cyanide, pH, sulfate, chloride, nitrate, nitrite, TDS, Ammonia  
  
Stick up well, locked, MSMSD

# ATTACHMENT 6

SMI and Green Point Landfill Site Inspection Forms



**GREEN POINT LANDFILL  
POST-CLOSURE INSPECTION FORM**

Inspection Date:

9/27/16

Time Arrived:

6:30 PM

Time Departed:

PM

Inspectors:

Billy J. Cohen

Weather Conditions

Rain PERIODS OF LIGHT RAIN

Snow NO

Temperature 50s - 60s

Barometric Pressure

| Inspection Items             | Site/Area Condition |                | Comments                           |
|------------------------------|---------------------|----------------|------------------------------------|
|                              | Satisfactory        | Unsatisfactory |                                    |
| A. Site Access Road          | ✓                   |                |                                    |
| • Erosion/Washout/Settlement | ✓                   |                |                                    |
| • Sufficient Gravel          | ✓                   |                |                                    |
| B. Site Security             |                     |                |                                    |
| • Access Gates               | ✓                   |                |                                    |
| • Fence Integrity            |                     | ✓              | HOLE IN FENCE NEAR MW-122 & MW-125 |
| • Fence Straight             | ✓                   |                |                                    |
| • Post Condition             | ✓                   |                |                                    |
| • Signs                      | ✓                   |                |                                    |
| • Locks                      | ✓                   |                |                                    |
| C. Vegetative Cover          |                     |                |                                    |
| • Bare Spots                 | ✓                   |                |                                    |
| • Stressed Vegetation        | ✓                   |                |                                    |
| • Cracks                     | ✓                   |                |                                    |
| • Burrowing Animals          | ✓                   |                |                                    |
| • Erosion                    | ✓                   |                |                                    |
| • Settlement                 | ✓                   |                |                                    |

**GREEN POINT LANDFILL  
POST-CLOSURE INSPECTION FORM**

Inspection Date:

9-27-16

| Inspection Items                  | Site/Area Condition |                | Comments |
|-----------------------------------|---------------------|----------------|----------|
|                                   | Satisfactory        | Unsatisfactory |          |
| • Water Ponding                   | ✓                   |                |          |
| • Protruding Objects              | ✓                   |                |          |
| • Undesirable Growth              | ✓                   |                |          |
| • Slope Movement                  | ✓                   |                |          |
| D. Leachate Breakouts             |                     |                |          |
| • Area Locations                  | ✓                   |                |          |
| • Entering Surface Water          | ✓                   |                |          |
| E. Surface Water Drainage System  |                     |                |          |
| • Exposed Clay Barrier            | ✓                   |                |          |
| • Drainage Swales                 | ✓                   |                |          |
| • Culverts                        | ✓                   |                |          |
| • Downchutes                      | ✓                   |                |          |
| • Primary Sedimentation Basin     | ✓                   |                |          |
| • Bank Erosion                    | ✓                   |                |          |
| • Silt Levels                     | ✓                   |                |          |
| • Berms                           | ✓                   |                |          |
| F. Ground-Water Monitoring System |                     |                |          |
| • Casing                          | ✓                   |                |          |
| • Locks                           | ✓                   |                |          |
| • Bollards                        | ✓                   |                |          |
| • Surface Seal                    | ✓                   |                |          |

**GREEN POINT LANDFILL  
POST-CLOSURE INSPECTION FORM**

Inspection Date: 9.27.16

| Inspection Items                   | Site/Area Condition |                | Comments |
|------------------------------------|---------------------|----------------|----------|
|                                    | Satisfactory        | Unsatisfactory |          |
| G. Surface Water Monitoring System | ✓                   |                |          |
| H. Gas Management System           |                     |                |          |
| • Vent Condition                   | ✓                   |                |          |
| • Detectable Odor                  | ✓                   |                |          |
| • Surface Seal                     | ✓                   |                |          |
| I. Overall Site Appearance         | ✓                   |                |          |
| J. Wetlands                        | ✓                   |                |          |



**SMI River Berm Area  
INSPECTION FORM**

Inspection Date: 9-27-16

Time Arrived: 6:30 PM AM Time Departed: \_\_\_\_\_ PM

Inspectors: Billy J. Coburn

Weather Conditions

Rain PERIODS OF LIGHT RAIN

Snow NO

Temperature 50s - 60s

Barometric Pressure \_\_\_\_\_

| Inspection Items                                    | Site/Area Condition |                | Comments |
|-----------------------------------------------------|---------------------|----------------|----------|
|                                                     | Satisfactory        | Unsatisfactory |          |
| A. Site Access Road                                 |                     |                |          |
| • Erosion/Washout/Settlement                        | ✓                   |                |          |
| • Sufficient Gravel (at least 6 inches on the road) | ✓                   |                |          |
| B. Site Security                                    |                     |                |          |
| • Access Gates                                      | ✓                   |                |          |
| • Fence Integrity                                   | ✓                   |                |          |
| • Fence Straight                                    | ✓                   |                |          |
| • Post Condition                                    | ✓                   |                |          |
| • Signs                                             | ✓                   |                |          |
| • Locks                                             | ✓                   |                |          |
| C. Vegetative Cover                                 |                     |                |          |
| • Bare Spots                                        | ✓                   |                |          |
| • Erosion                                           | ✓                   |                |          |

**SMI Plant Inspection Form**  
**(Former CTC Parking Lot, I27.7, Melting Department, or Parking Lot North of Buffer Basin)**  
**INSPECTION FORM**

Inspection Date: 9.27.16

Plant Area: \_\_\_\_\_

Time Arrived: 6:30 PM AM Time Departed: \_\_\_\_\_ PM

Inspectors: Billy J. Coburn

Weather Conditions

Rain Periods of Light Rain  
 Snow NO  
 Temperature 50° - 60°  
 Barometric Pressure \_\_\_\_\_

| Inspection Items                   | Site/Area Condition |                | Comments |
|------------------------------------|---------------------|----------------|----------|
|                                    | Satisfactory        | Unsatisfactory |          |
| A. Site Security                   |                     |                |          |
| • Access Gates                     | ✓                   |                |          |
| • Fence Integrity                  | ✓                   |                |          |
| • Fence Straight                   | ✓                   |                |          |
| • Post Condition                   | ✓                   |                |          |
| • Signs                            | ✓                   |                |          |
| • Locks                            | ✓                   |                |          |
| B. Vegetative Cover or Paved Cover |                     |                |          |
| • Bare Spots                       | ✓                   |                |          |
| • Erosion                          | ✓                   |                |          |

**Former Railyard Area  
INSPECTION FORM**

Inspection Date: 9.27.16

Time Arrived: 6:30 PM AM Time Departed: \_\_\_\_\_ PM

Inspectors: Bill Coburn

Weather Conditions

Rain Periods of heavy rain

Snow NO

Temperature 50s - 60s

Barometric Pressure \_\_\_\_\_

| Inspection Items                                    | Site/Area Condition |                | Comments |
|-----------------------------------------------------|---------------------|----------------|----------|
|                                                     | Satisfactory        | Unsatisfactory |          |
| A. Site Access Road                                 |                     |                |          |
| • Erosion/Washout/Settlement                        | ✓                   |                |          |
| • Sufficient Gravel (at least 6 inches on the road) | ✓                   |                |          |
| B. Site Security                                    |                     |                |          |
| • Access Gates                                      | ✓                   |                |          |
| • Fence Integrity                                   | ✓                   |                |          |
| • Fence Straight                                    | ✓                   |                |          |
| • Post Condition                                    | ✓                   |                |          |
| • Signs                                             | ✓                   |                |          |
| • Locks                                             | ✓                   |                |          |
| C. Vegetative Cover                                 |                     |                |          |
| • Bare Spots                                        | ✓                   |                |          |
| • Erosion                                           | ✓                   |                |          |



# SMI TYPE III LANDFILL INSPECTION FORM

Inspection Date:

9-27-16

Time Arrived:

6:30 AM

Time Departed:

PM

Inspectors:

Billy J. Coburn

## Weather Conditions

Rain PERIODS OF LIGHT RAIN

Snow NO

Temperature 50.5 - 60.5

Barometric Pressure 29.9

| Inspection Items             | Site/Area Condition |                | Comments |
|------------------------------|---------------------|----------------|----------|
|                              | Satisfactory        | Unsatisfactory |          |
| A. Site Access Road          |                     |                |          |
| • Erosion/Washout/Settlement | ✓                   |                |          |
| • Sufficient Gravel          | ✓                   |                |          |
| B. Site Security             |                     |                |          |
| • Access Gates               | ✓                   |                |          |
| • Fence Integrity            | ✓                   |                |          |
| • Fence Straight             | ✓                   |                |          |
| • Post Condition             | ✓                   |                |          |
| • Signs                      | ✓                   |                |          |
| • Locks                      | ✓                   |                |          |
| C. Vegetative Cover          |                     |                |          |
| • Bare Spots                 | ✓                   |                |          |
| • Stressed Vegetation        | ✓                   |                |          |
| • Cracks                     | ✓                   |                |          |
| • Burrowing Animals          | ✓                   |                |          |
| • Erosion                    | ✓                   |                |          |
| • Settlement                 | ✓                   |                |          |

# SMI TYPE III LANDFILL INSPECTION FORM

Inspection Date:

9.27-16

| Inspection Items                 | Site/Area Condition |                | Comments |
|----------------------------------|---------------------|----------------|----------|
|                                  | Satisfactory        | Unsatisfactory |          |
| • Water Ponding                  | ✓                   |                |          |
| • Protruding Objects             | ✓                   |                |          |
| • Undesirable Growth             | ✓                   |                |          |
| • Slope Movement                 | ✓                   |                |          |
| D. Leachate Breakouts            |                     |                |          |
| • Area Locations                 | ✓                   |                |          |
| • Entering Surface Water         | ✓                   |                |          |
| E. Surface Water Drainage System |                     |                |          |
| • Exposed Clay Barrier           | ✓                   |                |          |
| • Drainage Swales                | ✓                   |                |          |
| • Culverts                       | ✓                   |                |          |
| • Downchutes                     | ✓                   |                |          |
| • Primary Sedimentation Basin    | ✓                   |                |          |
| • Bank Erosion                   | ✓                   |                |          |
| • Silt Levels                    | ✓                   |                |          |
| • Berms                          | ✓                   |                |          |
| F. Overall Site Appearance       | ✓                   |                |          |

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