

PCB Cleanup Completion Summary Report

Former Saginaw Malleable Iron Facility

RACER Trust

GHD | 14496 Sheldon Road Suite 200 Plymouth Michigan 48170 USA

007878 | T01 | 001Y17 | Report No 27 | March 21 2017

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1. Introduction

GHD Services, Inc. (GHD) has prepared this Polychlorinated Biphenyl (PCB) Cleanup Completion Summary Report (Report) on behalf of Revitalizing Auto Communities Environmental Response (RACER) Trust for the former Saginaw Malleable Iron (SMI) Facility (also referred to as Saginaw Malleable Industrial Land) located at 77 West Center Street, Saginaw, Michigan (Site). The Site location is presented on Figure 1.1. A Site Plan is presented on Figure 1.2.

On May 8, 2015, RACER Trust requested a Toxic Substances Control Act (TSCA) of 1976 Coordinated Approval for a Risk-Based Disposal Work Plan for PCB-Impacted Material (Work Plan) in accordance with the requirements of Title 40 of the Code of Federal Regulations (CFR) §761.77(c) for the Site. The Work Plan was prepared for the floor slab of the Former SMI Facility, the melting department area, and the I27.7 Manhole Area in accordance with the procedures set forth in 40 CFR §761.61(c) as an application to the United States Environmental Protection Agency Region 5 (U.S. EPA) and the Michigan Department of Environmental Quality (MDEQ) to implement a cleanup of Site-related PCB contamination under the risk-based cleanup option and included applicable aspects of the self-implementation alternative described in 40 CFR §761.61(a). The Work Plan was submitted to U.S. EPA and MDEQ in accordance with the procedures set forth in 40 CFR §761.61 of TSCA.

MDEQ approved the Work Plan on March 31, 2016. The coordinated approval to complete the Work Plan was received from U.S. EPA on July 15, 2016. U.S. EPA Modified the Work Plan to include the following:

- Residual PCB impacted soil (in the I27.7 Manhole Area) will be covered by a demarcation layer and up to 54-inches of fill overlain by two feet of clay and a two inch layer of topsoil.
- Sidewall verification sampling where the excavation depth of the PCB contaminated soil exceeds one foot.
- The restrictive covenant for the Site must include a statement stipulating that the cover over the residual PCB impacted soil must be maintained in perpetuity.

This Report has been prepared for submittal to U.S. EPA – Region 5 in accordance with conditions specified in U.S. EPA's July 15, 2016 approval of the cleanup. Copies of the proposed cleanup plan and U.S. EPA and MDEQ approval letters are presented in Appendix A.

1.1 Site Background

In 1907 General Motors Corporation (GMC) initiated manufacturing operations consisting of casting and heat treating iron. The SMI Plant had historically used PCBs and PCB items in several applications including transformers, capacitors, switch gear, hydraulic systems, kiln seals, and fluorescent light ballasts. Releases of PCBs to the concrete occurred during those standard Plant operations. Operations ceased at the Site on April 20, 2007.

GMC filed for bankruptcy under Chapter 11 of the United States Bankruptcy Code on June 1, 2009. On July 10, 2009, pursuant to a bankruptcy court order, Motors Liquidation Company (MLC)

retained ownership of the Site, and on October 20, 2010 entered into a settlement agreement with federal and state governmental authorities regarding MLC's environmental obligations at its remaining properties. According to the terms of the settlement agreement, RACER Trust became effective March 31, 2011 and interests in the Site were transferred to RACER Trust at that time to conduct, manage, and fund cleanup at the 89 sites formerly owned by MLC, including the Site.

Decommissioning and demolition of the SMI Plant was completed in December 2010.

The Site is in the process of being sold to the Michigan Department of Natural Resources (MDNR) pursuant to a December 12, 2016 purchase option; however, RACER Trust will retain certain responsibilities related to subsurface contamination associated with historical operations at the Site by GMC.

2. Site Characterization

Initial site characterization was completed prior to removal activities as presented in the Work Plan on Figures 1.3 and 2.1 to 2.4. A copy of the aforementioned document is presented in Appendix A.

In accordance with the approved Work Plan, on April 21, 2017 one sample was collected of the entire thickness of the concrete floor above the I27.7 Manhole Area proposed for removal to confirm previous results, which reported PCBs less than 10 mg/kg. The sample was analyzed for PCBs, TCLP Metals, and TCLP VOCs. The results of the analysis indicate the concrete was considered non-hazardous and non-TSCA waste. A copy of the analytical report is provided in Appendix B and GHD's data validation reports are provided in Appendix C.

During preparation for field activities the location of some historical floor samples that were used to define the extent of PCB-impacted floor could not be located in the field. This is likely a result of the number of years since the samples were collected and that the locations were not surveyed at the time they were collected since the plant was still active. As such, GHD collected 111 additional delineation floor samples between July and August 2017 in areas where historical floor sample locations used to define PCB-impacted floor, could not be located. Figure 2.1 presents the entire floor slab of the Plant and the areas where additional delineation activities were completed. Figures 2.2, 2.3, 2.4, and 2.5 present close-ups of the PCB-impacted floor areas and present the non-surveyed historical floor sample locations, the estimated removal extents based on the non-surveyed floor sample locations, historical floor sample locations that were found and surveyed, additional PCB-delineation floor sample locations, and the revised removal extents based on surveyed historical floor sample locations and surveyed additional delineation floor sample locations. For ease of review, the estimated removal areas initially identified in the Work Plan were numbered. Table 2.1 presents a summary of the historical floor sample results for PCBs for each area identified in the Work Plan, the surveyed floor sample location (if found), and additional delineation floor sample results for areas where historical floor sample locations used to define PCB-impacted flooring, could not be located. A copy of the analytical reports are provided in Appendix B and GHD's data validation reports are provided in Appendix C.

While conducting additional delineation of PCB-impacted floor around Areas 8 and 9, elevated levels of PCBs in the floor samples were consistently identified from sampling events conducted

between July and August 2017. Upon further review of the area, the source of the PCBs was linked to kilns that formerly operated in this area and a historical source of PCBs. Characterization of the kiln area was previously completed while the Plant was still operational and therefore, samples were only collected from a few select locations. As such, GHD completed 211 additional delineation floor samples in the kiln area between September and November 2017 to define the extent of PCB-impacted floor. Figure 2.1 presents the entire floor slab of the Plant and the areas where additional delineation activities were completed in the kiln area. Figure 2.6 presents a close-up of the kiln area where additional floor samples were collected and the PCB-impacted floor removal extents based on the sampling results. Table 2.2 presents a summary of the kiln area floor sample results for PCBs. Please note that there was a significant sub-area within the kiln area where the floor was comprised of 3-inch thick bricks underlain by concrete. In eight locations samples were collected of the brick and the underlying concrete and submitted for analysis of PCBs. The results for the brick samples ranged from 0.33 parts per million (ppm) to 120 ppm PCBs while the results for all underlying concrete samples were less than 10 ppm PCBs. As such, in the sub-area within the kiln area with brick flooring, no further underlying samples of concrete were collected and only the brick was further characterized to define the extent of PCB-impacts. A copy of the analytical reports are provided in Appendix B and GHD's data validation reports are provided in Appendix C.

The characterization of PCBs in soil in the I27.7 Manhole Area was identified in the Work Plan on Figures 1.3. No further characterization was completed in the I27.7 Manhole Area, however, as part of preparation for the field activities a survey was completed of the boring locations. Figure 2.7 presents the results of the I27.7 Manhole Area investigation, the non-surveyed soil boring locations, the removal extents based on the non-surveyed boring locations, the surveyed soil boring locations, and the revised removal extents based on the surveyed boring locations. Table 2.3 presents a summary of the I27.7 Manhole Area soil sample results for PCBs and the surveyed boring location (if found).

PCB wipe samples were collected from treatment equipment associated with a historical LNAPL treatment system at the Plant that was being stored in the on-Site LNAPL building for disposal purposes. The results of the wipe samples indicate the equipment was considered a non-TSCA waste and was disposed at Waste Management's People's Landfill in Birch Run, Michigan. A copy of the analytical report is provided in Appendix B and GHD's data validation reports are provided in Appendix C.

See Section 7 for verification sampling that was conducted.

3. Notification and Certification

The Work Plan was submitted on May 8, 2015 and was prepared in accordance with 40 CFR Part 761 as a notification to the U.S. EPA of RACER's intent to implement a cleanup of the Site related PCB contamination under the risk based option set forth under 40 CFR 761.61(c).

A copy of the Certification Notification as required by 40 CFR 761.61(a)(3)(E) is provided in Appendix A of the Work Plan (Appendix A of this Report).

4. Site Cleanup Levels

The proposed cleanup level for on-Site contamination in the floor slab was 10 ppm PCBs and in soil above the water table was 100 ppm PCBs. These cleanup levels, with the addition of a 1-foot clay cap will allow for the floor slab area to be utilized in a manner in the future that would meet the definition of a Low Occupancy Area under 40 CFR 761.

5. Permitting

GHD and RACER's contractor, Job Site Services, Inc. (JSS) obtained the following required permits for PCB cleanup activities:

- MDEQ – Water Resources Division Permit – Part 31, Floodplain/Water Resources Protection – RACER's Saginaw Malleable Industrial Land (for proposed fill in the 100-year floodplain, associated with the installation of a 1-foot cover over the floor slab)
- MDEQ – Water Resources Division Permit – Part 31, Floodplain/Water Resources Protection – RACER's Saginaw Nodular Industrial Land (for proposed fill in the 100-year floodplain, associated with construction of a haul road to access source of clay)
- City of Saginaw – Floodplain permit (for proposed work in the 100-year floodplain)
- County of Saginaw – Soil Erosion and Sedimentation Control Permit – RACER's Saginaw Malleable Industrial Land (for disturbance of approximately 27 acres)
- County of Saginaw – Soil Erosion and Sedimentation Control Permit – RACER's Saginaw Nodular Industrial Land (for disturbance of approximately 5 acres)

Copies of the permits are provided in Appendix D.

6. Site Cleanup

The bulk PCB remediation waste removal activities were conducted between August 11, 2016 and February 7, 2017. A photographic log of the activities is provided in Appendix E.

Prior to mobilization, additional delineation of PCBs in the floor slab and survey activities were completed, as further discussed in Section 2, to define the areas of the floor slab that required removal. Once delineation of the PCB impacted floor slab was completed the areas were marked out in the field.

A temporary decontamination pad was constructed prior to initiation of the excavation activities. Concrete and brick floor slab containing concentrations of PCBs greater than 10 ppm and a small amount of soil containing concentrations of PCBs greater than 100 ppm were excavated using a hydraulic excavator by JSS.

6.1 Former Malleable Plant Floor Slab

6.1.1 Excavation Activities

Between September and December 2016 portions of the floor slab containing concentrations of PCBs greater than 10 ppm were excavated using a hydraulic excavator. Initially, portions of the PCB-impacted floor slab were marked out by the surveyor and saw-cut, after which the excavator broke the concrete into sizes that were accepted by the disposal facility. The entire floor thickness (ranging from 6-inches to 8-inches) was removed and disposed off-Site, with the exception of a sub-area within the kiln area where brick was found to be impacted above 10 ppm PCBs, but the underlying concrete was found to contain less than 10 ppm PCBs. Figures 2.2 to 2.6 present the final extents of the floor slab removal areas.

A total of approximately 1,012 tons of floor slab containing PCBs <50 ppm (non-TSCA) were removed and disposed off-Site at Waste Management's People's Landfill in Birch Run, Michigan and a total of approximately 898 tons of floor containing PCBs >50 ppm (TSCA) were removed and disposed off-Site at U.S. Ecology's Wayne Disposal Landfill in Belleville, Michigan, in accordance with 40 CFR §761.61(a)(5). Copies of the waste manifests are included in Appendix F.

6.1.2 Restoration Activities

In accordance with the approved Work Plan, following excavation of the PCB-impacted floor slab, the areas were backfilled with approximately 6-inches of clean backfill sand and covered with 6-inches of concrete. Please note that the area within the kiln area, where only the brick was removed and disposed of, was not restored but will be covered with 3-inches of clay. The entire floor slab will be covered by a 1-foot cover, which will be documented in a supplemental technical memorandum.

6.2 I27.7 Manhole Area

6.2.1 Excavation Activities

Between September 29 and October 13, 2016, a total of approximately 233 tons of soil containing PCBs greater than 100 ppm were excavated from the I27.7 Manhole Area using a hydraulic excavator. Initially, the horizontal extent of the excavation was marked out by the surveyor and saw-cut based on historical soil boring results. The concrete floor was characterized as non-TSCA waste and was broken up by the excavator into sizes that were accepted by the disposal facility and was disposed of at Waste Management's People's Landfill in Birch Run, Michigan. In accordance with the approved Work Plan, the depth of the excavation was to be completed to the shallower of the water table or 5 feet below ground surface (bgs) and sidewall verification samples were to be collected for excavations completed greater than 1-foot in depth. Floor verifications samples were to be collected as well, however, their purpose was to document the concentrations of PCBs that would be left in place in soil. Upon initiation of soil excavation it quickly became apparent that the water table was quite high as the excavation filled with water reaching equilibrium at approximately 2-inches below the bottom of the concrete floor. Regardless, soil was excavated, where possible, to a depth of approximately 5-feet. During excavation of the I27.7 Manhole Area, subsurface obstructions including foundation walls, footings, and other concrete floors were found as identified

on Figure 5.1 and in Appendix E. Removal of soil was completed around the obstructions to the extent practicable. Due to the obstructions the depth of the excavation varied from approximately 1-foot below ground surface to 5-feet below ground surface. The majority of excavated soils were transferred directly from the excavation into haul trucks for transportation to the landfill based on the in-situ characterization, however, some of the saturated soil was stockpiled within the footprint of the excavation to allow for free liquids to drain prior to transporting the material off-Site for disposal. The trucks were equipped with covers (i.e., tarps) to prevent the loss of any soils/concrete/brick during transportation. The final excavation extents were surveyed by a professional surveyor, with an accuracy of 0.1 feet (ft). All soils were transported to and disposed at U.S. Ecology's Wayne Disposal Landfill in Belleville, Michigan, in accordance with 40 CFR §761.61(a)(5). Copies of the waste manifests are included in Appendix F.

As a result of the high water table, no sidewall verification samples were collected. Floor sample verification samples were collected as discussed in Section 7.

6.2.2 Restoration Activities

Following the excavation of soil in the I27.7 Manhole area a topographical survey was completed of the excavation on October 18, 2016, post-excavation floor verification grab samples were collected on October 18, 2016 (as further discussed in Section 7), and the excavation was backfilled with pea gravel on October 24, 2016. The pea gravel was used as backfill to avoid displacing excavation water onto the floor slab, provide an adequate base for the placement of the clay cover, and acts a demarcation layer. Prior to placement of the 1-foot cover, which is to be placed over the entire floor slab, a geofabric layer and an additional 12-inches of clay will be placed on the pea gravel for a total of 24-inches of clay cover in the I27.7 Manhole Area excavation.

6.3 Equipment Disposal

Components of a historical LNAPL treatment system at the Plant were being stored in the on-Site LNAPL building. On October 5, 2016 wipe samples of the equipment were collected and submitted for analysis of PCBs to characterize the equipment for disposal. The results of the analysis (included in Appendix B) indicated that the equipment was considered non-TSCA waste. Therefore, on December 7, 2016, approximately 4 tons of equipment associated with the historical LNAPL treatment system at the Plant was crushed and disposed of as non-TSCA waste at Waste Management's People's Landfill in Birch Run, Michigan. Copies of the waste manifest are included in Appendix F.

6.4 Decontamination

All movable equipment such as the excavator bucket and non-disposable tools (shovels) that contacted PCB impacted material were decontaminated consistent with the procedures specified in 40 CFR §761.79(c)(2)(ii).

Wipe samples were collected by JSS from their equipment that contacted the PCB-impacted material and analyzed for PCBs. Results of the wipe sample analysis indicated that the equipment did not contain any concentration of PCBs. A copy of the analytical report is provided in Appendix B.

7. Post-Excavation Verification Sampling

In accordance with the approved Work Plan no post-excavation verification sampling was completed following the removal of floor slab impacted with PCBs.

As a result of the high water table, no post-excavation sidewall verification samples were collected in the I27.7 Manhole Area excavation.

The purpose of the post-excavation floor verification sampling is to complement the existing I27.7 Manhole Area soil boring investigation results to document the concentrations of PCBs that remained following excavation. As a result of excavation of soil below the water table in the I27.7 Manhole Area excavation, the initial attempt to collect post-excavation verification floor samples was completed while the excavation was open. Five grab samples were collected on October 18, 2016, from around the excavation, through the water column using the hydraulic excavator. The results of the grab samples are summarized on Figure 7.1 and were shared with U.S. EPA and MDEQ on December 19, 2016 to solicit input. Upon further discussions with U.S. EPA and MDEQ, RACER completed excavation floor verification sampling of the I27.7 Manhole Area consistent with 40 CFR 761 Subpart O "Sampling to Verify Completion of Self Implementing Cleanup and On Site Disposal of Bulk PCB Remediation Waste and Porous Surfaces", as was included in the approved Work Plan but via a modified sampling procedure. These verification samples were collected using direct push sampling equipment after the excavation was backfilled with pea gravel. In addition, two additional borings were added to the scope near post-excavation grab samples I27-B and I27-E to supplement existing data. The proposed borings were advanced to a depth of 6 ft with samples collected at 0-2', 2-4', and 4-6' and analyzed for PCBs.

On January 31, 2017 borings were advanced in the excavation area to collect soil samples from the soil underlying the pea gravel. As a result of standing water in the excavation area, 7 borings were unable to be advanced on January 31, 2017. Additional pea gravel was placed on February 3, 2017 and the remaining borings were completed and soil samples were collected on February 7, 2017. The soil was sampled, as approved by EPA, in accordance with 40 CFR 761.265 and composited in accordance with 40 CFR 761.289. Figure 7.1 presents the post-excavation floor verification sampling results of the I27.7 Manhole Area excavation. The results ranged from an estimated concentration of 0.02 mg/kg to 11 mg/kg for PCBs. See Appendix G for a copy of the boring logs for the post-excavation floor sampling locations.

In addition, Figure 6.1 presents the results from samples from the two additional borings (BH58-17 and BH59-17) added to the scope near post-excavation grab samples I27-B and I27-E to supplement existing data. Results ranged from an estimated concentration of 0.039 mg/kg to 21 mg/kg for PCBs. See Appendix G for a copy of the boring logs for the additional borings.

On February 14, 2017, the results of the post-excavation floor verification sampling and additional boring sampling were provided to U.S. EPA and MDEQ for review. In a follow-up discussion on February 16, 2017, U.S. EPA and MDEQ provided their preliminary concurrence that no further removal or investigation work was required in the I27.7 Manhole Area.

Table 7.1 presents the post-excavation verification sampling results, the analytical laboratory reports are provided in Appendix B, and GHD's data validation memorandum are included in Appendix C.

8. Cap Installation

A supplemental technical memo will be submitted to document the installation of the cap.

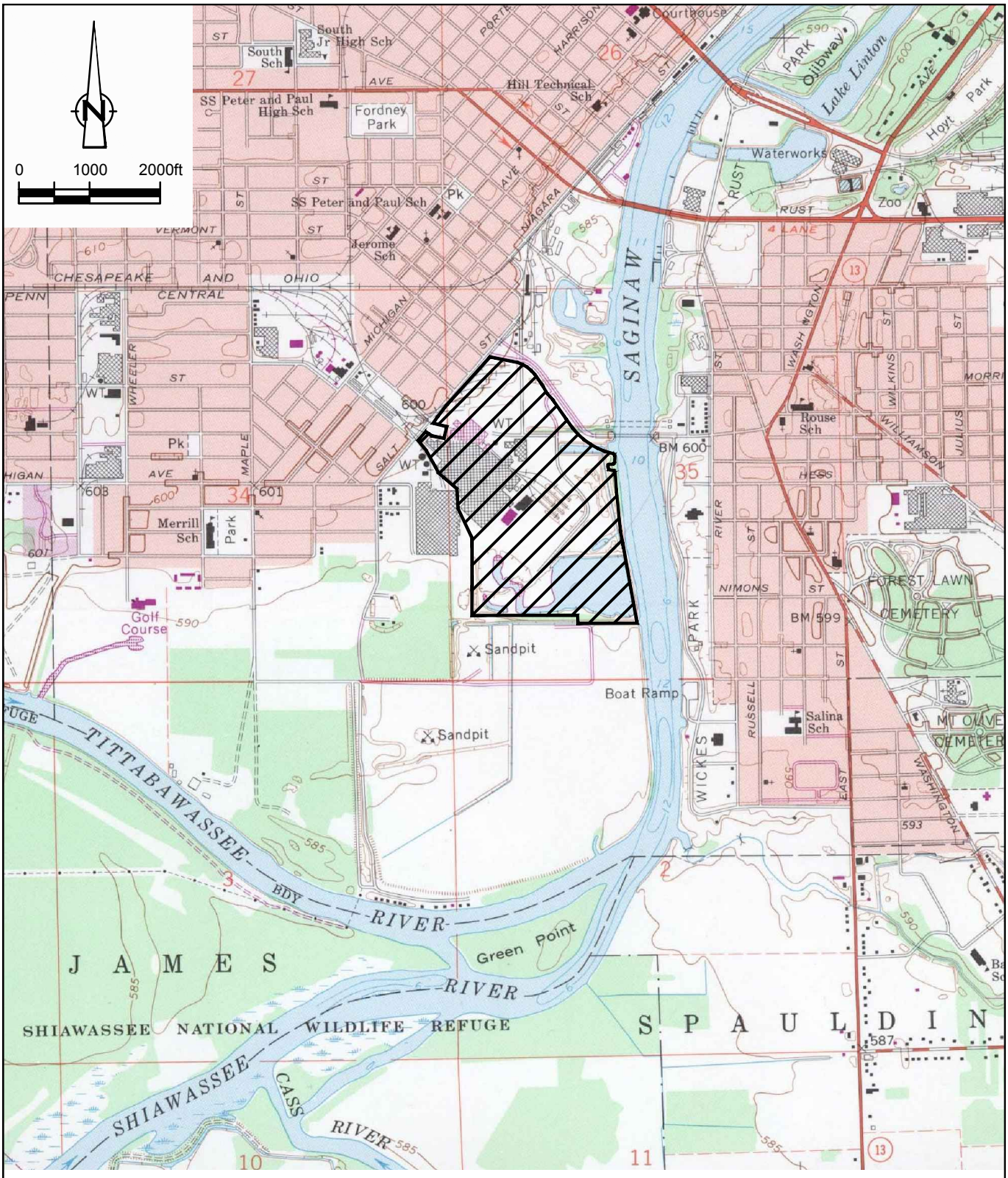
9. Deed Restrictions

As specified in the approved cleanup plan, a deed restriction meeting the requirements of 40 CFR §761.61(a)(8) will be recorded restricting use of the floor slab area to those uses and exposures that would meet the definition of a Low Occupancy Area and will provide notification that PCB remediation waste is present on portion of the property. The RACER Site is currently pursuing a "No Further Action and/or Corrective Action Complete with Controls" determination from MDEQ for the Site. A Declaration of Restrictive Covenant (DRC) identifying land and resource use restrictions is required as part of the final remedy for the Site. That DRC will also include notification that PCB remediation waste is present on portion of the property and identification of the Low Occupancy Area land use restriction. The DRC will be recorded with the Saginaw County Register of Deeds. A copy of the recorded DRC will be submitted to U.S. EPA and MDEQ upon completion and recording.

Floor slab sample locations that contain a concentration greater than 1 ppm PCBs located in the Low Occupancy Areas are presented in Table 9.1. The boundary of the proposed Low Occupancy Area and notification of PCB remediation waste are presented on draft DRC exhibits presented in Appendix H.

10. Recordkeeping

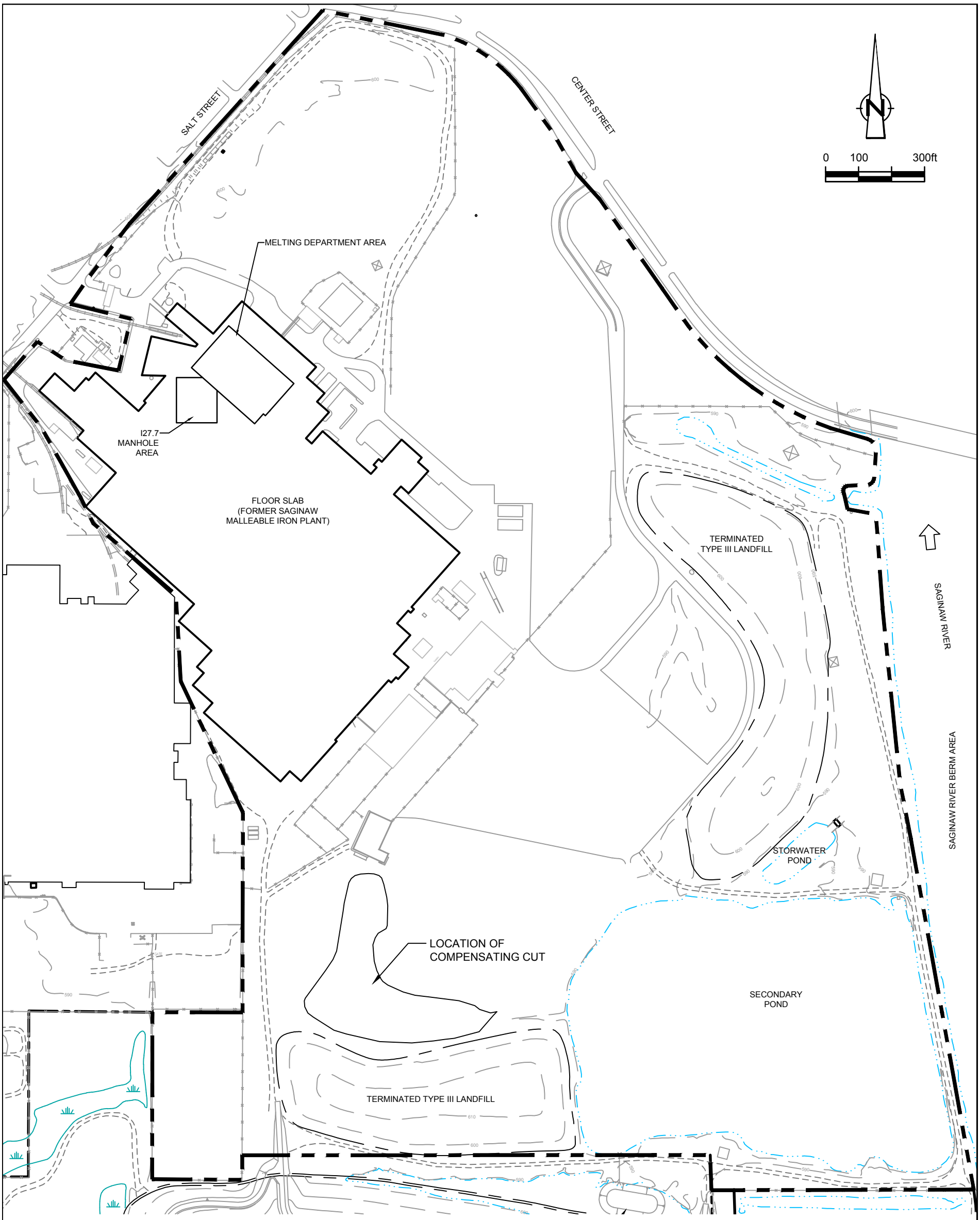
Records of the implementation of the cleanup plan, including copies of analytical laboratory reports, data validation, and waste manifests will be retained for a minimum of five years, in accordance with the retention requirements specified in 40 CFR §761.61(a)(9).



SOURCE: USGS QUADRANGLE MAP;
SAGINAW, MICHIGAN

figure 1.1

SITE PLAN
SAGINAW MALLEABLE INDUSTRIAL LAND
REVITALIZING AUTO COMMUNITIES
ENVIRONMENTAL RESPONSE (RACER)
Saginaw, Michigan



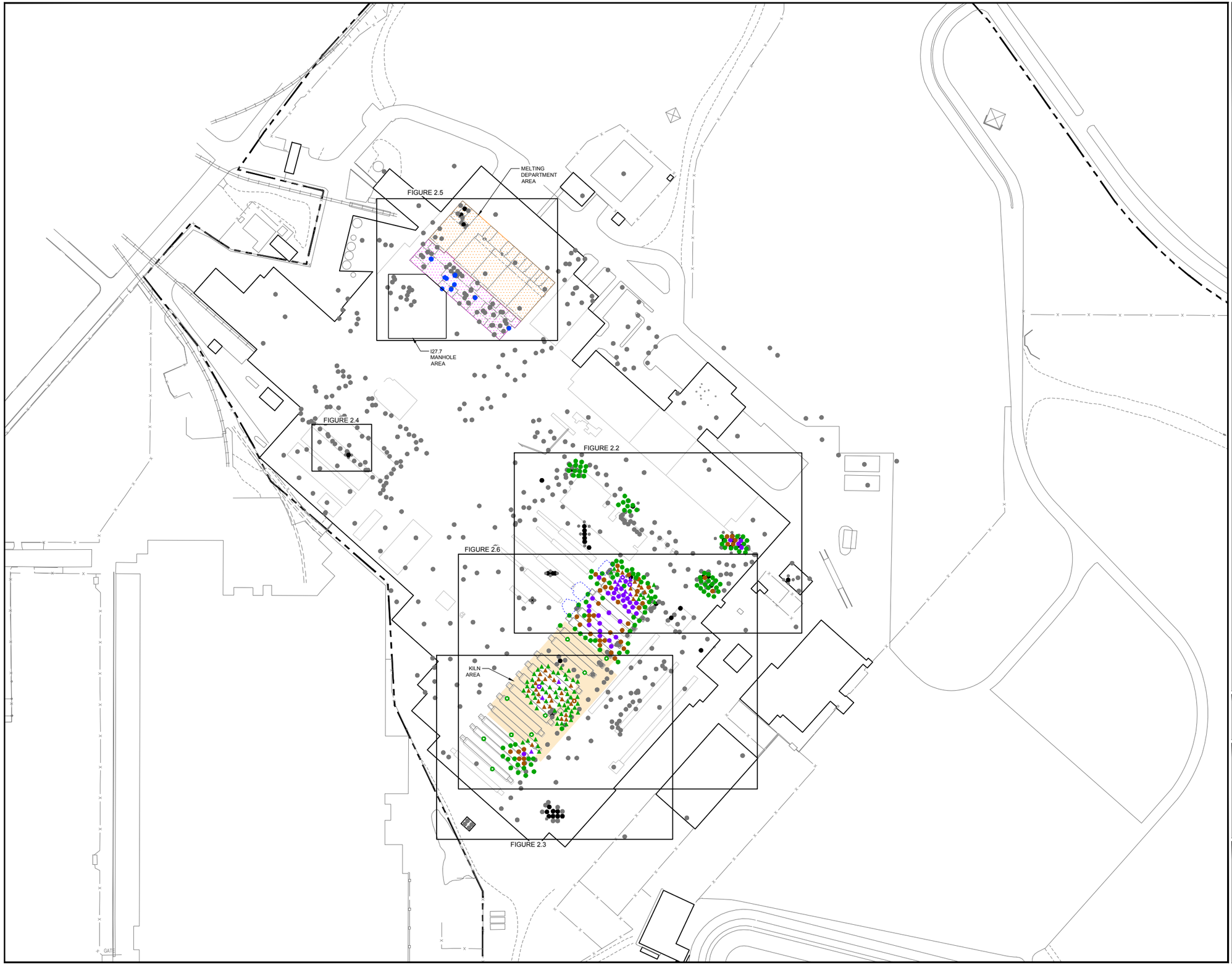
NOTE:
THIS DRAWING HAS BEEN PREPARED
UTILIZING THE BEST AVAILABLE INFORMATION.

figure 1.2

SITE PLAN
SAGINAW MALLEABLE INDUSTRIAL LAND
REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE (RACER)
Saginaw, Michigan

GHD

07878-T01(027)GN-WA004 MAR 7, 2017



0 50 100ft

LEGEND

- RACER MALLEABLE INDUSTRIAL LAND PROPERTY LINE (APPROX.)
- BUILDING OUTLINE
- FENCE LINE
- PREVIOUSLY REMEDIATED
- BASEMENT AREA PREVIOUSLY REMEDIATED AS DESCRIBED IN THE MELTING DEPARTMENT AREA INVESTIGATION REPORT (APRIL 1997). BASEMENT AREAS WERE FILLED WITH FLOWABLE FILL AND CAPPED WITH 6" OF CONCRETE
- CONCRETE FLOOR SAMPLE LOCATION
- BRICK FLOOR SAMPLE LOCATION
- BRICK CORING SAMPLING LOCATION WITH ADDITIONAL CONCRETE CORING SAMPLE COLLECTED BENEATH THE BRICK SAMPLING
- CONCRETE FLOOR SAMPLE LOCATION (>10 mg/kg PCB) PRIOR TO 2016 (NOT SURVEYED)
- CONCRETE FLOOR/BASEMENT WALL SAMPLE LOCATION (<10 mg/kg PCB) PRIOR TO 2016 (NOT SURVEYED)
- DENOTES BASEMENT LEVEL SAMPLE LEFT IN PLACE THAT IS ABOVE 10 mg/kg PCBs
- 2016 SAMPLING LOCATION WITH RESULTS < 10mg/kg PCBs
- 2016 SAMPLING LOCATION WITH RESULTS > 10mg/kg BUT < 50 mg/kg PCBs
- 2016 SAMPLING LOCATION WITH RESULTS > 50mg/kg PCBs
- EXTENT OF BRICK FLOORING IN KILN AREA
- FORMER QUENCH PIT AREAS (COVERED WITH A CLEAN LAYER OF CONCRETE AFTER DEMOLITION)

DRAFT

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE (RACER) SAGINAW MALLEABLE INDUSTRIAL LAND

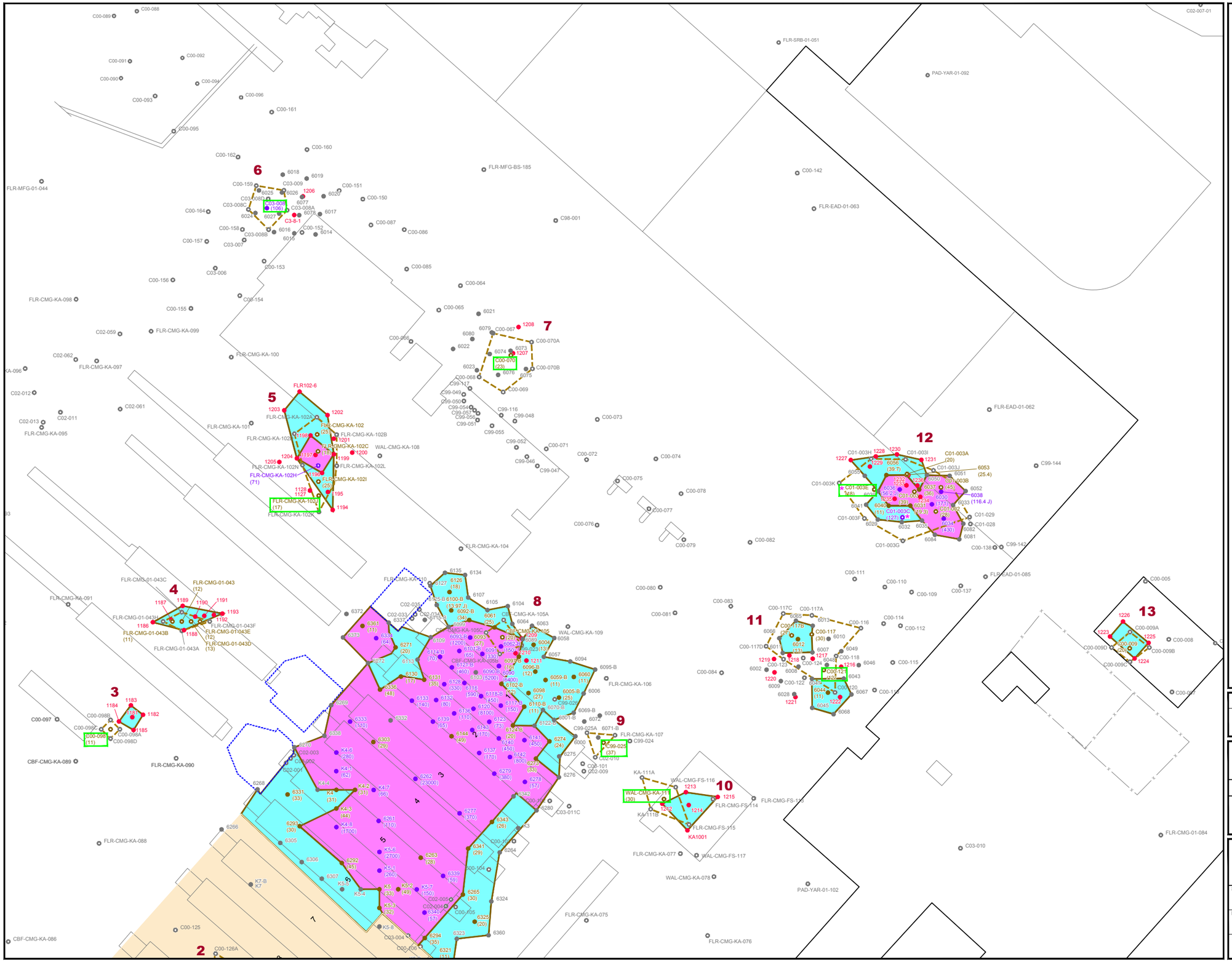
SAGINAW, MICHIGAN

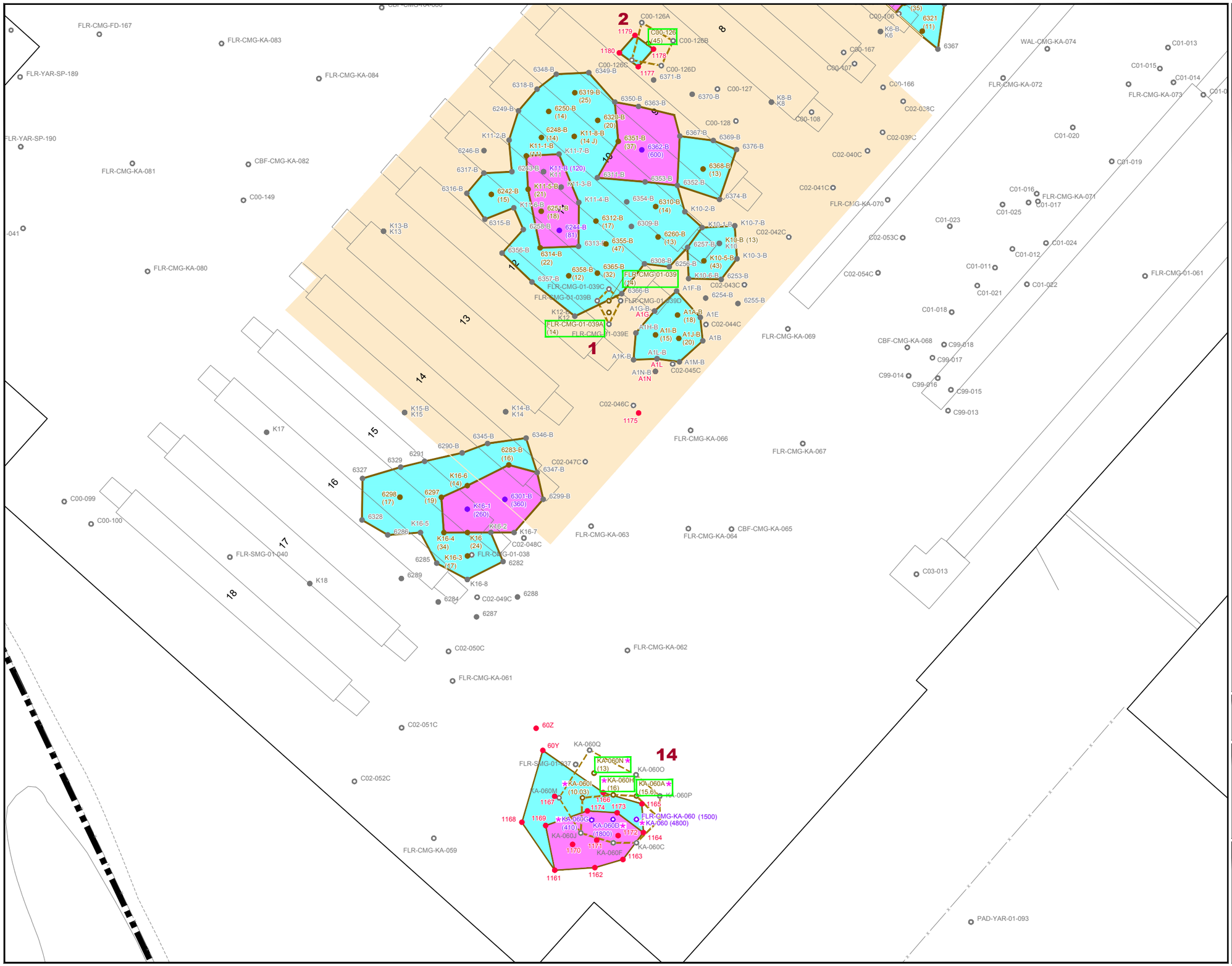
SURFICIAL FLOOR SAMPLING LOCATIONS PCB INVESTIGATION

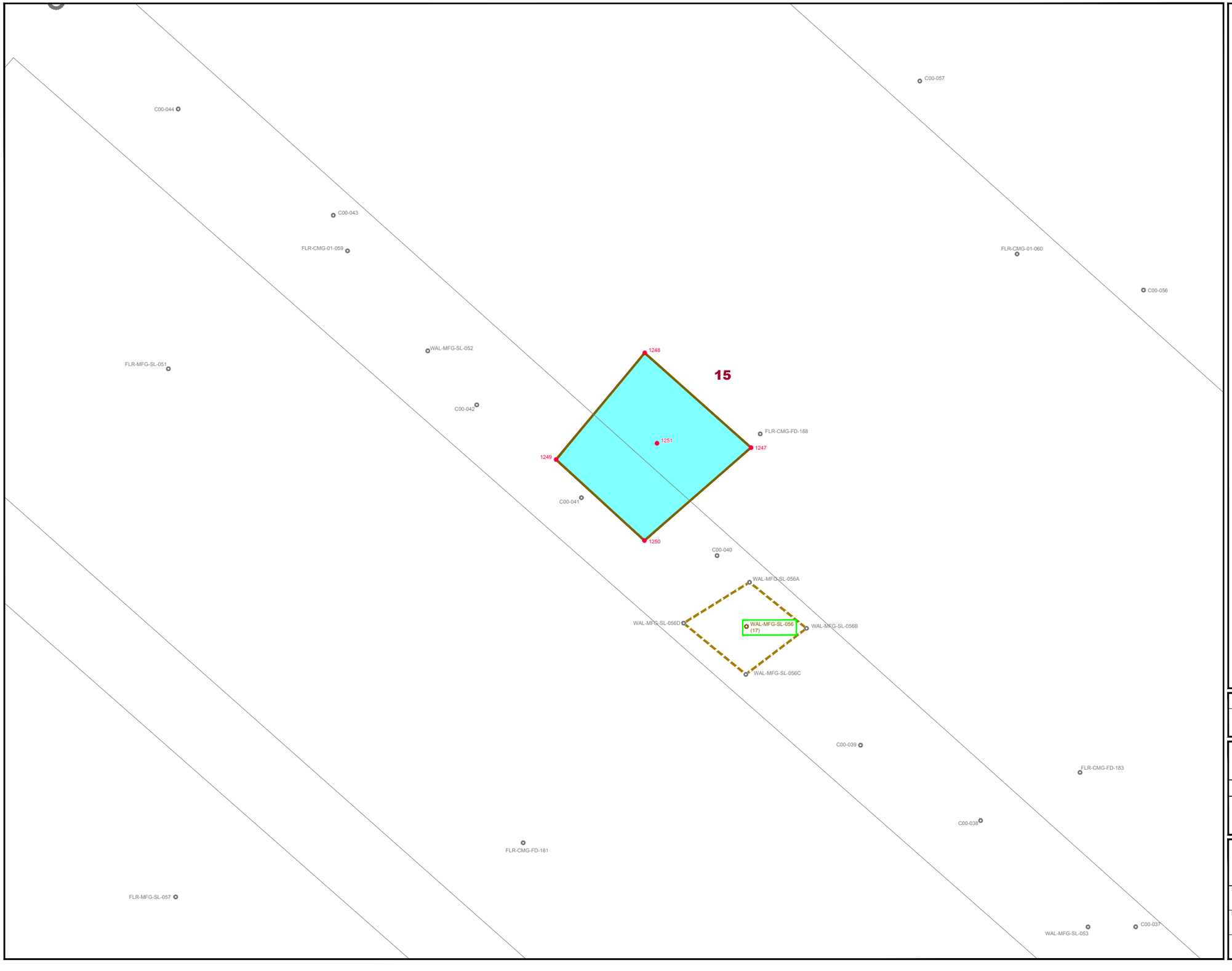
GHD

Source Reference:			
Project Manager: MRT	Reviewed By: JEP	Date: FEBRUARY 2017	
Scale: 1:100	Project №: 07878-T01	Report №: 027	Drawing №: figure 2.1

07878-T01(027)GN-WA001 FEB 24, 2017


C00-088
C00-089
C00-091
C00-092
C00-090
C00-094
C00-093
C00-096
C00-161
C00-095
C00-162
C00-160
FLR-MFG-01-044
FLR-MFG-BS-185
C00-159
C00-151
C00-150
C00-164
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C00-152
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FLR-CMG-01-043D
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WAL-CMG-KA-109
FLR-CMG-KA-105A
FLR-CMG-KA-105B
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C01-078C



N

0 2 5ft

LEGEND

- RACER MALLEABLE INDUSTRIAL LAND PROPERTY LINE (APPROX.)
- BUILDING OUTLINE
- FENCE LINE
- FLOOR SAMPLE LOCATION - SURVEYED (LOCATIONS WITH A 'B' INDICATE A BRICK SAMPLE, ALL OTHERS ARE CONCRETE)
- FLOOR SAMPLE LOCATION - NON-SURVEYED

SCREENING RESULTS

- FLOOR SAMPLING LOCATION WITH RESULTS < 10mg/kg PCBs
- FLOOR SAMPLING LOCATION WITH RESULTS > 10mg/kg BUT < 50 mg/kg PCBs
- FLOOR SAMPLING LOCATION WITH RESULTS > 50mg/kg PCBs
- (171) PCB RESULT (mg/kg)
- 1225 HISTORICAL FLOORING SAMPLE LOCATION - SURVEYED
- FLOORING CHARACTERIZED FOR DISPOSAL AS NON-TSCA WASTE
- ESTIMATED EXCAVATION LIMITS (AS PREVIOUSLY PROVIDED IN THE WORK PLAN) BASED ON CORING LOCATIONS IDENTIFIED ON HISTORICAL FIGURES SINCE PREVIOUS SAMPLING WAS CONDUCTED WHEN THE PLANT WAS STILL OPERATING AND THEREFORE, COULD NOT BE SURVEYED
- SURVEYED EXCAVATION LIMITS BASED ON CORING LOCATIONS FOUND AND SURVEYED, AS WELL AS, ADDITIONAL DELINEATION SAMPLES WHICH WERE ALSO SURVEYED
- 8 AREA INCLUDED IN THE WORK PLAN PROPOSED FOR REMOVAL. SEE TABLE 2.1 WHICH PRESENTS A SUMMARY OF THE HISTORICAL FLOOR SAMPLE RESULTS FOR PCBS FOR EACH AREA IDENTIFIED IN THE WORK PLAN, THE SURVEYED FLOOR SAMPLE LOCATION (IF FOUND), AND ADDITIONAL DELINEATION FLOOR SAMPLE RESULTS FOR AREAS WHERE HISTORICAL FLOOR SAMPLE LOCATIONS USED TO DEFINE PCB IMPACTED FLOORING, COULD NOT BE LOCATED
- SAMPLING LOCATIONS NOT SURVEYED BUT WITH > 10 mg/kg PCBs WERE NOT REMOVED SINCE EITHER: (1) THE ACTUAL SURVEYED LOCATION OF THE SAMPLE (IF FOUND) IS IN A SLIGHTLY DIFFERENT LOCATION, OR (2) WHERE A SAMPLE LOCATION COULD NOT BE FOUND AND SURVEYED, ADDITIONAL FLOOR SAMPLING WAS CONDUCTED IN 2016 AND REPORTED PCBs <10 mg/kg

DRAFT

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE (RACER) SAGINAW MALLEABLE INDUSTRIAL LAND

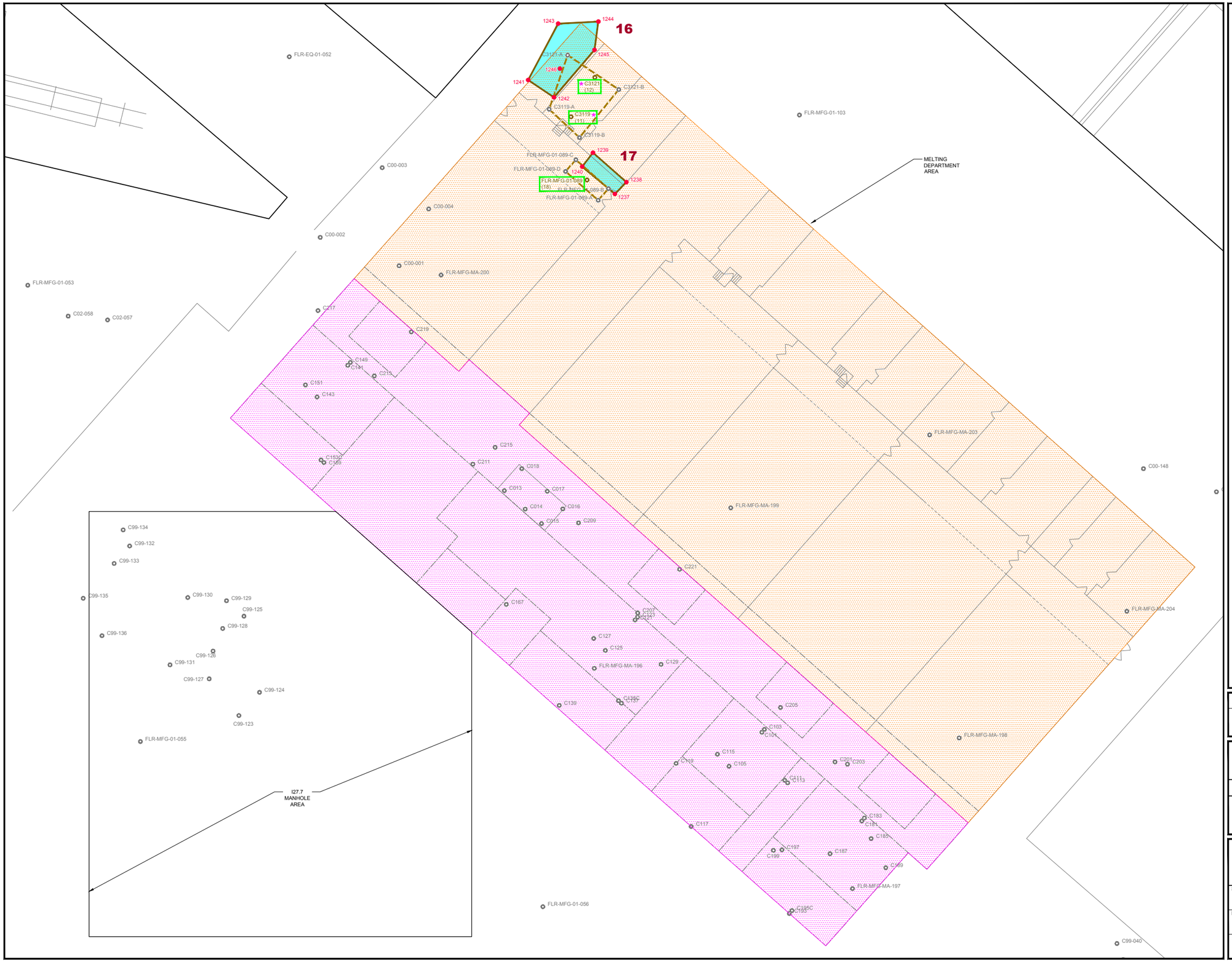
SAGINAW, MICHIGAN

FLOOR SLAB CHARACTERIZATION, REMOVAL AND DISPOSAL

GHD

Source Reference:			
Project Manager: MRT	Reviewed By: JEP	Date: FEBRUARY 2017	
Scale: AS SHOWN	Project Nº: 07878-T01	Report Nº: 027	Drawing Nº: figure 2.4

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N

0 5 15ft

LEGEND

- RACER MALLEABLE INDUSTRIAL LAND PROPERTY LINE (APPROX.)
- BUILDING OUTLINE
- FENCE LINE
- FLOOR SAMPLE LOCATION - SURVEYED (LOCATIONS WITH A 'B' INDICATE A BRICK SAMPLE, ALL OTHERS ARE CONCRETE)
- FLOOR SAMPLE LOCATION - NON-SURVEYED

SCREENING RESULTS

- FLOOR SAMPLING LOCATION WITH RESULTS < 10mg/kg PCBs
- FLOOR SAMPLING LOCATION WITH RESULTS > 10mg/kg BUT < 50 mg/kg PCBs
- FLOOR SAMPLING LOCATION WITH RESULTS > 50mg/kg PCBs
- FLOOR SAMPLE LOCATION WITH MULTIPLE DEPTHS COLLECTED AND ANALYZED. THE RESULT SHOWN IS THE HIGHEST CONCENTRATION. THE RESULTS FOR THE OTHER SAMPLES ARE PROVIDED IN TABLE 2.1
- (171) PCB RESULT (mg/kg)
- 1225 HISTORICAL FLOORING SAMPLE LOCATION - SURVEYED
- FLOORING CHARACTERIZED FOR DISPOSAL AS NON-TSCA WASTE
- PREVIOUSLY REMEDIATED
- BASEMENT AREA PREVIOUSLY REMEDIATED AS DESCRIBED IN THE MELTING DEPARTMENT AREA INVESTIGATION REPORT (APRIL 1997). BASEMENT AREAS WERE FILLED WITH FLOWABLE FILL AND CAPPED WITH 6" OF CONCRETE
- ESTIMATED EXCAVATION LIMITS (AS PREVIOUSLY PROVIDED IN THE WORK PLAN) BASED ON CORING LOCATIONS IDENTIFIED ON HISTORICAL FIGURES SINCE PREVIOUS SAMPLING WAS CONDUCTED WHEN THE PLANT WAS STILL OPERATING AND THEREFORE, COULD NOT BE SURVEYED
- SURVEYED EXCAVATION LIMITS BASED ON CORING LOCATIONS FOUND AND SURVEYED, AS WELL AS, ADDITIONAL DELINEATION SAMPLES WHICH WERE ALSO SURVEYED
- 16 AREA INCLUDED IN THE WORK PLAN PROPOSED FOR REMOVAL. SEE TABLE 2.1 WHICH PRESENTS A SUMMARY OF THE HISTORICAL FLOOR SAMPLE RESULTS FOR PCBS FOR EACH AREA IDENTIFIED IN THE WORK PLAN, THE SURVEYED FLOOR SAMPLE LOCATION (IF FOUND), AND ADDITIONAL DELINEATION FLOOR SAMPLE RESULTS FOR AREAS WHERE HISTORICAL FLOOR SAMPLE LOCATIONS USED TO DEFINE PCB IMPACTED FLOORING, COULD NOT BE LOCATED
- SAMPLING LOCATIONS NOT SURVEYED BUT WITH > 10 mg/kg PCBs WERE NOT REMOVED SINCE EITHER: (1) THE ACTUAL SURVEYED LOCATION OF THE SAMPLE (IF FOUND) IS IN A SLIGHTLY DIFFERENT LOCATION, OR (2) WHERE A SAMPLE LOCATION COULD NOT BE FOUND AND SURVEYED, ADDITIONAL FLOOR SAMPLING WAS CONDUCTED IN 2016 AND REPORTED PCBs <10 mg/kg

DRAFT

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE (RACER) SAGINAW MALLEABLE INDUSTRIAL LAND

SAGINAW, MICHIGAN

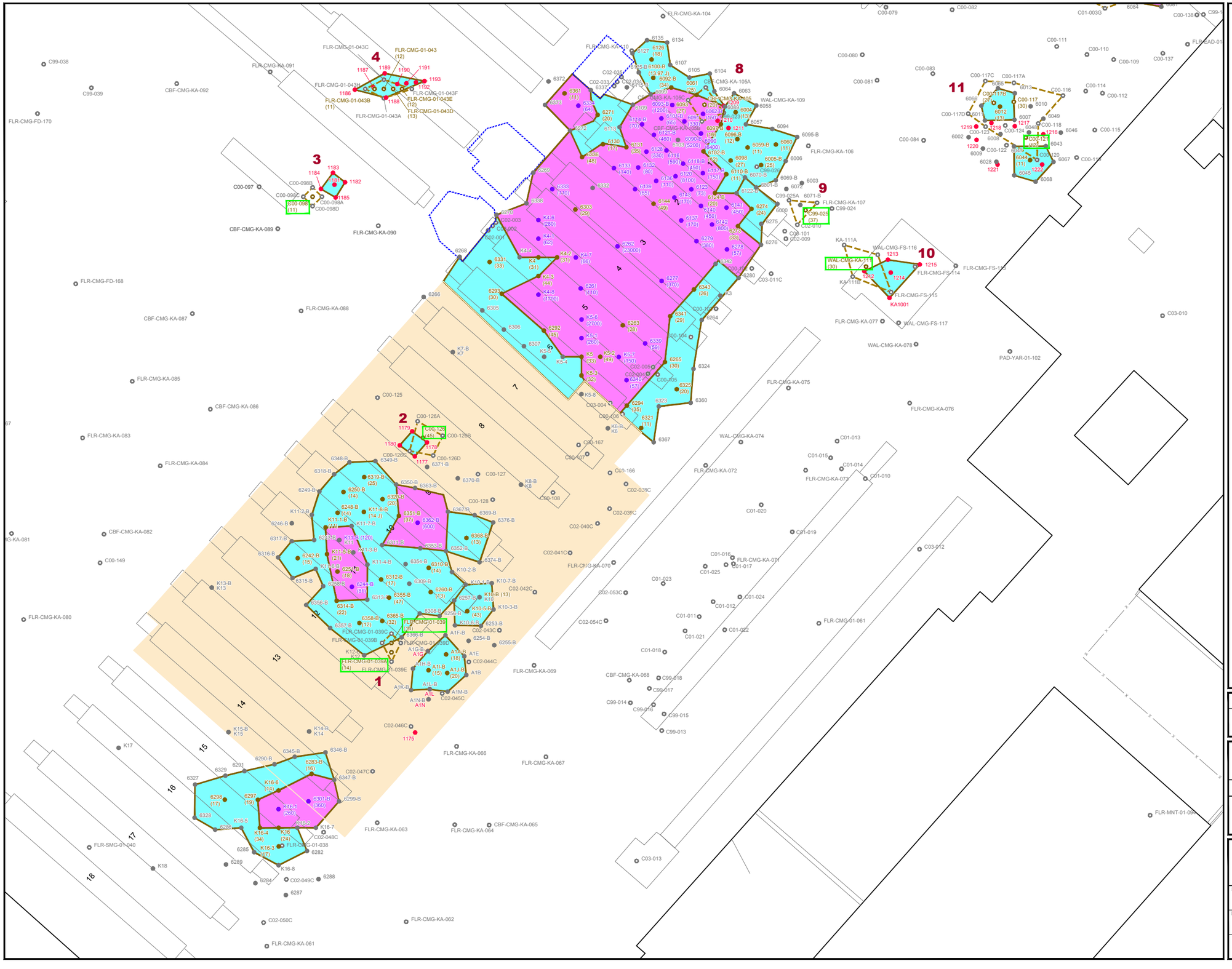
MELTING DEPARTMENT AREA FLOOR SLAB CHARACTERIZATION, REMOVAL AND DISPOSAL

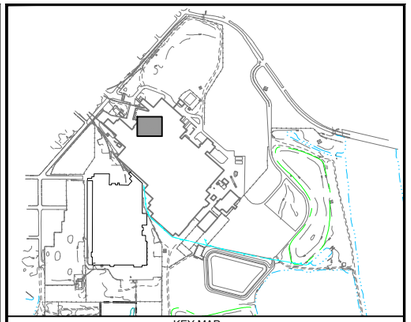
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Source Reference:

Project Manager:	Reviewed By:	Date:	
MRT	JEP	FEBRUARY 2017	
Scale: AS SHOWN	Project Nº: 07878-T01	Report Nº: 027	Drawing Nº: figure 2.5

07878-T01(027)GN-WA002 MAR 7, 2017


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FLR-CMG-01-043E
FLR-CMG-01-043D
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6410-B



KEY MAP

0 5 10ft

LEGEND

- BH1-98 ■ — SOIL BORING LOCATION
- 1225 ⊠ — SURVEYED SOIL BORING LOCATION
- SURVEYED EXCAVATION LIMITS
- BRANCH SEWERS TO CITY - SANITARY, STORM AND PROCESS
- ABANDONED SEWER LINES
- (1) — LOCATED IN HYDRAULIC ROOM #2 IN THE MELTING DEPARTMENT AREA

BH08-98	4/15/1998	SAMPLE LOCATION SAMPLE DATE
	1-3 ft BGS	SAMPLE DEPTH FEET BELOW GROUND SURFACE
Total PCBs	28	RESULT (mg/kg)

PARAMETER

>100 mg/kg PCB

NOTE:
THIS DRAWING HAS BEEN PREPARED UTILIZING ALL AVAILABLE INFORMATION, HOWEVER UTILITY LOCATIONS SHOULD BE FIELD VERIFIED BEFORE COMPLETING ANY INTRUSIVE ACTIVITIES.

DRAFT

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE (RACER) SAGINAW MALLEABLE INDUSTRIAL LAND

SAGINAW, MICHIGAN

I27.7 MANHOLE AREA SOIL INVESTIGATIVE LOCATIONS

GHD

Source Reference:			
Project Manager: MRT	Reviewed By: JEP	Date: FEBRUARY 2017	
Scale: AS SHOWN	Project №: 07878-T01	Report №: 027	Drawing №: figure 2.7

07878-T01(027)GN-WA005 FEB 24, 2017

BH16-13	10/9/2013 1-3 ft BGS	10/9/2013 5-7 ft BGS
Total PCBs	3800 J	5.9 J/3.6 J

BH16R-13	12/30/2013 8-10 ft BGS
Total PCBs	ND (0.038)

BH32-13	12/30/2013 2-3 ft BGS	12/30/2013 6-7 ft BGS
Total PCBs	0.065	ND (0.038)

BH31-13	12/30/2013 2-3 ft BGS	12/30/2013 4-5 ft BGS	12/30/2013 7-8 ft BGS
Total PCBs	ND (0.041)	0.02/ND (0.037)	ND (0.038)

BH30-13	12/30/2013 1.5-3.5 ft BGS	12/30/2013 4-5 ft BGS	12/30/2013 7-8 ft BGS
Total PCBs	3	4.1	ND (0.038)

BH35-14	4/14/2014 2-3 ft BGS	4/14/2014 4-5 ft BGS	4/14/2014 8-10 ft BGS
Total PCBs	ND (0.039)	0.13	ND (0.039)

BH29-13	12/30/2013 2-3 ft BGS	12/30/2013 7-8 ft BGS
Total PCBs	23	0.095

BH5-13	10/9/2013 1-3 ft BGS	10/9/2013 5-7 ft BGS	10/9/2013 9-10 ft BGS
Total PCBs	32 J	1 J	0.66 J

BH17-13	10/9/2013 1-3 ft BGS	10/9/2013 6-8 ft BGS
Total PCBs	1.2 J	0.38 J

BH36-14	4/14/2014 1-3 ft BGS
Total PCBs	0.17/0.51

BH18-13	10/9/2013 1-3 ft BGS
Total PCBs	0.58 J

BH18R-14	4/14/2014 1-3 ft BGS
Total PCBs	12

BH47-14	4/14/2014 2-3 ft BGS	4/14/2014 7-8 ft BGS	4/14/2014 13-15 ft BGS
Total PCBs	0.16	0.164 J	0.039

BH6-13	10/9/2013 1-3 ft BGS
Total PCBs	820 J

BH6R-13	12/30/2013 4-5 ft BGS	12/30/2013 7-8 ft BGS	12/30/2013 9-10 ft BGS
Total PCBs	0.17	92	1.7

BH6R2-14	4/14/2014 7-8 ft BGS	4/14/2014 11-13 ft BGS
Total PCBs	79	0.82

BH48-14	4/14/2014 2-3 ft BGS	4/14/2014 6-8 ft BGS	4/14/2014 13-15 ft BGS
Total PCBs	0.447 J	0.11	0.094

BH28R-14	4/14/2014 2-3 ft BGS	4/14/2014 7-8 ft BGS
Total PCBs	25	7.5

BH28-13	12/30/2013 2-3 ft BGS	12/30/2013 7-8 ft BGS
Total PCBs	200	9.2/2.6

BH06-98	4/15/1998 1-3 ft BGS	4/15/1998 7-9 ft BGS	4/15/1998 13-15 ft BGS
Total PCBs	93	ND (0.33)	ND (0.33)

BH38-14	4/14/2014 2-3 ft BGS	4/14/2014 6-8 ft BGS	4/14/2014 13-15 ft BGS
Total PCBs	0.54	2.3/1.1	0.22

BH19-13	10/9/2013 5-7 ft BGS
Total PCBs	1.07 J

BH49-14	4/14/2014 2-3 ft BGS	4/14/2014 6-8 ft BGS	4/14/2014 13.5-15 ft BGS
Total PCBs	0.14	0.58	ND (0.037)

BH19R-13	12/30/2013 2-3 ft BGS	12/30/2013 6-7.5 ft BGS
Total PCBs	0.47	0.38

BH02-98	1/16/1998 1-3 ft BGS	1/16/1998 5-7 ft BGS	1/16/1998 9-11 ft BGS
Total PCBs	2	1.5	ND (0.33)

BH27-13	12/30/2013 2-3 ft BGS	12/30/2013 9-10 ft BGS
Total PCBs	0.16	ND (0.043)

BH39-14	4/15/2014 2-3 ft BGS	4/15/2014 6-8 ft BGS	4/15/2014 8-10 ft BGS
Total PCBs	ND (0.2)	0.046	0.25/0.17

BH7-13	10/9/2013 5-7 ft BGS
Total PCBs	1.8 J

BH20-13	10/9/2013 1-3 ft BGS	10/9/2013 6-7.5 ft BGS
Total PCBs	0.47 J	3.13 J

BH4-13	10/9/2013 3-5 ft BGS	10/9/2013 4-5 ft BGS
Total PCBs	ND (0.039)/ND (0.039)	ND (0.039)

BH33-13	12/30/2013 2-3 ft BGS	12/30/2013 6-7 ft BGS
Total PCBs	0.036 J	ND (0.04)

BH53-14	5/22/2014 2-3 ft BGS	5/22/2014 7-8 ft BGS
Total PCBs	ND (0.038)	ND (0.041)

BH3-13	10/8/2013 13-15 ft BGS
Total PCBs	ND (0.038)

S1188 (1)

BH42-14	4/15/2014 2-3 ft BGS	4/15/2014 7-8 ft BGS	4/15/2014 13-15 ft BGS
Total PCBs	0.15	0.018 J	ND (0.038)

BH2-13	10/8/2013 0.75-1.25 ft BGS	10/8/2013 13-15 ft BGS
Total PCBs	7.4 J	ND (0.038)

BH54-14	5/22/2014 1-2 ft BGS	5/22/2014 7-8 ft BGS	5/22/2014 15-16 ft BGS
Total PCBs	0.113	ND (0.037)	ND (0.038)

BH07-98	4/15/1998 1-3 ft BGS	4/15/1998 7-9 ft BGS	4/15/1998 13-15 ft BGS
Total PCBs	ND (0.33)	ND (0.33)	1500

BH43-14	4/15/2014 2-3 ft BGS	4/15/2014 7-8 ft BGS	4/15/2014 13-15 ft BGS
Total PCBs	0.17	160	0.024 J

BH52-14	5/22/2014 2-3 ft BGS	5/22/2014 7-8 ft BGS
Total PCBs	0.083	ND (0.038)

BH1-13	10/8/2013 13-15 ft BGS
Total PCBs	ND (0.037)

BH44-14	4/15/2014 2-3 ft BGS	4/15/2014 6-7 ft BGS
Total PCBs	0.26	0.52

BH01-98	1/16/1998 1-3 ft BGS	1/16/1998 5-7 ft BGS	1/16/1998 9-11 ft BGS
Total PCBs	100	35	0.4

BH08-98	4/15/1998 1-3 ft BGS	4/15/1998 7-9 ft BGS
Total PCBs	0.51	0.71

BH05-98	1/16/1998 1-3 ft BGS	1/16/1998 5-7 ft BGS	1/16/1998 7-9 ft BGS
Total PCBs	4900	3.6	3.9

BH03-98	1/16/1998 1-3 ft BGS	1/16/1998 3-5 ft BGS	1/16/1998 5-6.5 ft BGS
Total PCBs	0.44	0.37	29

BH8-13	10/9/2013 5-7 ft BGS
Total PCBs	0.62 J

BH10-13	10/9/2013 1-3 ft BGS	10/9/2013 7-8.5 ft BGS
Total PCBs	0.273 J	0.49 J

BH04-98	1/16/1998 1-3 ft BGS	1/16/1998 5-7 ft BGS	1/16/1998 7-7.25 ft BGS
Total PCBs	42	0.71	19.8

BH9-13	10/9/2013 1-3 ft BGS	10/9/2013 7-9 ft BGS
Total PCBs	0.7 J	9.9 J

BH22-13	10/9/2013 1-3 ft BGS	10/9/2013 6-7.5 ft BGS
Total PCBs	0.77 J	ND (0.04)

BH11-13	10/9/2013 1-3 ft BGS	10/9/2013 6-7.5 ft BGS
Total PCBs	1.04 J	1.2 J/2.05 J

BH21-13	10/9/2013 1-3 ft BGS	10/9/2013 8.5-10 ft BGS
Total PCBs	2.05 J	ND (0.038)

BH25-13	12/30/2013 2-3 ft BGS
Total PCBs	0.138

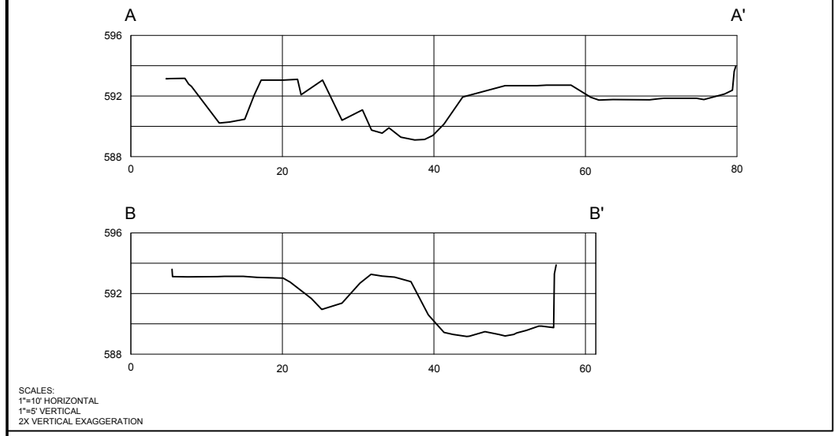
BH41-14	4/14/2014 2-3 ft BGS	4/14/2014 6-7 ft BGS	4/14/2014 8-9.5 ft BGS
Total PCBs	2.8	0.67	0.22

BH50-14	5/22/2014 2-3 ft BGS
Total PCBs	0.74/1.7

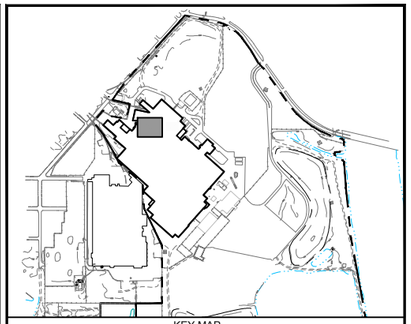
BH51-14	5/22/2014 2-3 ft BGS
Total PCBs	0.067

BH40-14	4/15/2014 2-3 ft BGS	4/15/2014 6-8 ft BGS	4/15/2014 8-10 ft BGS
Total PCBs	0.096	0.05	0.17

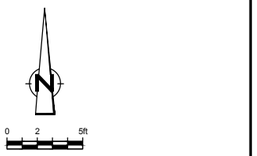
BH26-13	12/30/2013 6-7.5 ft BGS
Total PCBs	5.3



SCALES:
1"=10' HORIZONTAL
1"=5' VERTICAL
2X VERTICAL EXAGGERATION



KEY MAP



LEGEND

BH1-98 ■	SOIL BORING LOCATION
1225 ⊠	SURVEYED BORING LOCATION
+	SURVEYED SPOT ELEVATION - POST-EXCAVATION FLOOR
⊕	FLOOR COMPOSITE SAMPLE LOCATION
⊠	SOIL GRAB SAMPLE LOCATION
	SURVEYED EXCAVATION LIMITS
	LOCATION OF SUBSURFACE OBSTRUCTION
	3m BY 3m GRID USED TO VERIFY SOIL PCB CONCENTRATIONS TO REMAIN IN PLACE IN SOIL. SAMPLES WERE COLLECTED FROM EACH GRID AND COMPOSITED WITH THE OTHER GRID SAMPLES WITHIN THE QUADRANT IDENTIFIED BY A LETTER ("A").

		SAMPLE LOCATION
I27-E	10/18/2016	SAMPLE DATE
	(4-5) ft BTCFS	SAMPLE DEPTH FEET BELOW TOP OF CONCRETE FLOOR SLAB
TOTAL PCBs	470	RESULT (mg/kg)
		PARAMETER
		>100 mg/kg PCB

NOTE: TOP OF CONCRETE FLOOR IS APPROXIMATELY 594.00 FT AMSL.

DRAFT

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE (RACER) SAGINAW MALLEABLE INDUSTRIAL LAND

SAGINAW, MICHIGAN

I27.7 MANHOLE AREA VERIFICATION SAMPLING

GHD

Source Reference:			
Project Manager: MRT	Reviewed By: JEP	Date: FEBRUARY 2017	
Scale: AS SHOWN	Project Nº: 07878-T01	Report Nº: 027	Drawing Nº: figure 7.1

07878-T01(027)GN-WA006 MAR 8, 2017

I27-C	10/18/2016 (0.5-1.5) ft BTCFS
TOTAL PCBs	50

I27-D	10/18/2016 (1.5-2.5) ft BTCFS
TOTAL PCBs	40

D-Comp	1/31/2017 (2.3 to 3.3) ft BTCFS
TOTAL PCBs	0.59

C2-Comp	2/7/2017 (3.9-5.0) ft BTCFS
TOTAL PCBs	6.8

C1-Comp	1/31/2017 (3.2 to 4.4) ft BTCFS
TOTAL PCBs	0.022 J

BH59-17	1/31/2017 (0-2) ft BTCFS	1/31/2017 (2-4) ft BTCFS	1/31/2017 (4-6) ft BTCFS
TOTAL PCBs	21	0.51	0.049 J

I27-E	10/18/2016 (4-5) ft BTCFS
TOTAL PCBs	470

A-Comp	1/31/2017 (1.8 to 5.7) ft BTCFS
TOTAL PCBs	0.39

B2-Comp	2/7/2017 (3.5-5.0) ft BTCFS
TOTAL PCBs	11

I27-B	10/18/2016 (1.5-2.5) ft BTCFS
TOTAL PCBs	400

BH58-17	1/31/2017 (0-2) ft BTCFS	1/31/2017 (2-4) ft BTCFS	1/31/2017 (4-6) ft BTCFS
TOTAL PCBs	0.039 J	1.2	0.19

B1-Comp	1/31/2017 (2.9 to 4.4) ft BTCFS
TOTAL PCBs	0.02 J

I27-A	10/18/2016 (3-4) ft BTCFS
TOTAL PCBs	14

Table 2.1

Floor Slab Sample Results - PCBs
Saginaw Malleable Industrial Land
Saginaw, Michigan

	Historical Location (not surveyed)	Date	Depth	Total PCB Result (mg/kg)	2016 Survey Point ID
Area 1					
	FLR-CMG-01-039	1/4/2007	(1-2) in BGS	14.0	
	FLR-CMG-01-039A	9/29/2011	(0-2) in BGS	14.0	
	FLR-CMG-01-039B	9/29/2011	(0-2) in BGS	0.58	
	FLR-CMG-01-039C	9/29/2011	(0-2) in BGS	0.12	A1G
	FLR-CMG-01-039D	9/29/2011	(0-2) in BGS	2.5	
	FLR-CMG-01-039D	10/10/2011	(0-2) in BGS	7.7	
	FLR-CMG-01-039E	10/10/2011	(0-2) in BGS	8.6	A1L
	A1A	8/19/2016	(0-0.5) in BGS	18.0	
	A1B	8/19/2016	(0-0.5) in BGS	3.9	
	A1E	8/19/2016	(0-0.5) in BGS	0.86	
	A1F	8/19/2016	(0-0.5) in BGS	2.4	
	A1G	8/4/2016	(0-0.5) in BGS	2.0	
	A1H	8/4/2016	(0-0.5) in BGS	0.28	
	A1I	8/4/2016	(0-0.5) in BGS	15.0	
	A1J	8/4/2016	(0-0.5) in BGS	20.0	
	A1K	8/4/2016	(0-0.5) in BGS	6.9	
	A1L	8/4/2016	(0-0.5) in BGS	5.3	
	A1M	8/4/2016	(0-0.5) in BGS	1.9	
	1176	8/4/2016	(0-0.5) in BGS	7.7	
Note:	Additional data was collected in 2016 as surveyed locations could not be matched to historical locations (see Figure 2.3)				
Area 2					
	C00-126	5/22/2000	(0-6) in BGS	45.0	
	C00-126A	2/4/2008	(0-0.5) in BGS	5.9	1179
	C00-126B	2/4/2008	(0-0.5) in BGS	0.73	1178
	C00-126C	2/4/2008	(0-0.5) in BGS	7.15	1180
	C00-126D	11/4/2010	(0-0.5) in BGS	ND	1177
Note:	See Figure 2.2 for graphical representation of data				
Area 3					
	C00-098	4/14/2000	(0-6) in BGS	11	1181
	C00-098A	9/29/2011	(0-6) in BGS	1.1	1182
	C00-098B	9/29/2011	(0-6) in BGS	ND	1183
	C00-098C	9/29/2011	(0-6) in BGS	1.1	1184
	C00-098D	9/29/2011	(0-6) in BGS	1.8	1185
Note:	See Figure 2.2 for graphical representation of data				
Area 4					
	FLR-CMG-01-043	1/4/2007	(1-2) in BGS	12	1190
	FLR-CMG-01-043A	9/29/2011	(0-2) in BGS	4.80	1188
	FLR-CMG-01-043B	9/29/2011	(0-2) in BGS	11	1187
	FLR-CMG-01-043C	9/29/2011	(0-2) in BGS	ND	1189
	FLR-CMG-01-043D	9/29/2011	(0-2) in BGS	13	1191
	FLR-CMG-01-043F	10/10/2011	(0-2) in BGS	12	1193
	FLR-CMG-01-043H	10/10/2011	(0-2) in BGS	8.40	1186
Note:	See Figure 2.2 for graphical representation of data				
Area 5					
	FLR-CMG-KA-102	6/18/2007	(0-0.5) in BGS	25	
	FLR-CMG-KA-102A	11/4/2010	(0-0.5) in BGS	0.62	FLR102-6
	FLR-CMG-KA-102B	11/4/2010	(0-0.5) in BGS	4.1	1202
	FLR-CMG-KA-102C	11/4/2010	(0-0.5) in BGS	18	1198

Table 2.1

Floor Slab Sample Results - PCBs
Saginaw Malleable Industrial Land
Saginaw, Michigan

Historical Location (not surveyed)	Date	Depth	Total PCB Result (mg/kg)	2016 Survey Point ID
Area 5 (cont'd)				
FLR-CMG-KA-102D	11/4/2010	(0-0.5) in BGS	1.9	1203
FLR-CMG-KA-102H	1/11/2011	(0-0.5) in BGS	71	1197
FLR-CMG-KA-102I	1/11/2011	(0-0.5) in BGS	25	1196
FLR-CMG-KA-102J	3/9/2011	(0-0.5) in BGS	17	1195
FLR-CMG-KA-102K	3/9/2011	(0-0.5) in BGS	4.2	1194
FLR-CMG-KA-102L	3/9/2011	(0-0.5) in BGS	8.49	1199
FLR-CMG-KA-102N	3/9/2011	(0-0.5) in BGS	0.036	1204

Note: See Figure 2.2 for graphical representation of data

Area 6				
C03-008	2/5/2003	(0-6) in BGS	106	
C03-008A	2/5/2008	(0-0.5) in BGS	4.1	1206
C03-008A	2/5/2008	(0.5-1) in BGS	7.9	1206
C03-008A	2/5/2008	(1-6) in BGS	0.097	1206
C03-008A	2/5/2008	(6-10) in BGS	ND	1206
C03-008B	2/5/2008	(0-0.5) in BGS	5.5	C3-8-1
C03-008B	2/5/2008	(0.5-1) in BGS	1.9	C3-8-1
C03-008B	2/5/2008	(1-6) in BGS	ND	C3-8-1
C03-008B	2/5/2008	(6-11) in BGS	ND	C3-8-1
C03-008C	2/5/2008	(0-0.5) in BGS	1.7	
C03-008C	2/5/2008	(0.5-1) in BGS	0.094	
C03-008C	2/5/2008	(1-6) in BGS	ND	
C03-008C	2/5/2008	(6-13.5) in BGS	ND	
C03-008D	2/5/2008	(0-0.5) in BGS	1.9	
C03-008D	2/5/2008	(0.5-1) in BGS	3.4	
C03-008D	2/5/2008	(1-6) in BGS	ND	
C03-008D	2/5/2008	(6-9.5) in BGS	ND	
C03-009	2/5/2003	(0-6) in BGS	1.7	
C00-159	11/22/2000	(0-6) in BGS	ND	
6014	7/25/2016	(0-0.5) in BGS	ND	
6015	7/25/2016	(0-0.5) in BGS	4.3	
6016	7/25/2016	(0-0.5) in BGS	8.5	
6017	7/25/2016	(0-0.5) in BGS	0.11 J	
6018	7/25/2016	(0-0.5) in BGS	0.52	
6019	7/25/2016	(0-0.5) in BGS	ND	
6020	7/25/2016	(0-0.5) in BGS	ND	
6024	7/25/2016	(0-0.5) in BGS	ND	
6025	7/25/2016	(0-0.5) in BGS	ND	
6026	7/25/2016	(0-0.5) in BGS	2.4	
6027	7/25/2016	(0-0.5) in BGS	4.8	
6077	8/4/2016	(0-0.5) in BGS	4.3	
6078	8/4/2016	(0-0.5) in BGS	9.2	

Note: Additional data was collected in 2016 as surveyed locations could not be matched to historical locations (see Figure 2.2)

Area 7				
C00-067	3/21/2000	(0-6) in BGS	0.4	
C00-068	3/21/2000	(0-6) in BGS	6	
C00-069	3/21/2000	(0-6) in BGS	1.2	
C00-070	3/21/2000	(0-6) in BGS	23	
C00-070A	11/5/2010	(0-0.5) in BGS	6.9	1208
C00-070B	11/5/2010	(0-0.5) in BGS	0.12	1207
6021	7/25/2016	(0-0.5) in BGS	ND	
6022	7/25/2016	(0-0.5) in BGS	1.5	

Table 2.1

Floor Slab Sample Results - PCBs
Saginaw Malleable Industrial Land
Saginaw, Michigan

	Historical Location (not surveyed)	Date	Depth	Total PCB Result (mg/kg)	2016 Survey Point ID
Area 7 (cont'd)					
	6023	7/25/2016	(0-0.5) in BGS	1.9	
	6073	8/4/2016	(0-0.5) in BGS	0.39 J	
	6074	8/4/2016	(0-0.5) in BGS	2.6	
	6075	8/4/2016	(0-0.5) in BGS	1.7	
	6076	8/4/2016	(0-0.5) in BGS	0.44 J	
	6079	8/4/2016	(0-0.5) in BGS	1.4	
	6080	8/4/2016	(0-0.5) in BGS	3.8	
Note:	Additional data was collected in 2016 as surveyed locations could not be matched to historical locations (see Figure 2.2)				
Area 8					
	CBF-CMG-KA-105	6/18/2007	(0-0.5) in BGS	20	
	CBF-CMG-KA-105A	11/4/2010	(0-0.5) in BGS	2.3	
	CBF-CMG-KA-105B	11/4/2010	(0-0.5) in BGS	5.1	
	CBF-CMG-KA-105C	11/4/2010	(0-0.5) in BGS	2.1	
	C99-023	2/8/1999	(0-6) in BGS	0.9	
Note:	Additional data was collected in 2016 as surveyed locations could not be matched to historical locations. This area is grouped with the Kiln Area as presented in Figure 2.6 and Table 2.2.				
Area 9					
	C99-025	2/8/1999	(0-6) in BGS	37	
	C99-025A	2/4/2008	(0-0.5) in BGS	4.2	
	FLR-CMG-KA-107	6/18/2007	(0-0.5) in BGS	6	
	C02-010	6/4/2002	(0-6) in BGS	1.6	
Note:	Additional data was collected in 2016 as surveyed locations could not be matched to historical locations. This area is grouped with the Kiln Area as presented in Figure 2.6 and Table 2.2.				
Area 10					
	KA-111	6/18/2007	(0-0.5) in BGS	30	1214
	KA-111A	2/4/2008	(0-0.5) in BGS	1.1	1213
	KA-111B	2/4/2008	(0-0.5) in BGS	8.7	1212
	FLR-CMG-FS-114	6/18/2007	(0-0.5) in BGS	3	1215
	FLR-CMG-FS-115	6/18/2007	(0-0.5) in BGS	6	KA1001
Note:	See Figure 2.2 for graphical representation of data				
Area 11					
	C00-116	5/22/2000	(0-6) in BGS	9	
	C00-117	5/22/2000	(0-6) in BGS	30	
	C00-117A	2/4/2008	(0-0.5) in BGS	7.7	
	C00-117B	2/4/2008	(0-0.5) in BGS	27	
	C00-117C	1/16/2009	(0-0.5) in BGS	2.47	
	C00-117D	1/16/2009	(0-0.5) in BGS	5.8	
	C00-118	5/22/2000	(0-6) in BGS	7	
	C00-120	5/22/2000	(0-6) in BGS	6	
	C00-121	5/22/2000	(0-6) in BGS	12	
	C00-123	5/22/2000	(0-6) in BGS	2.5	
	6002	7/25/2016	(0-0.5) in BGS	0.61	
	6007	7/25/2016	(0-0.5) in BGS	2.6	
	6008	7/25/2016	(0-0.5) in BGS	2.8	
	6009	7/25/2016	(0-0.5) in BGS	1.3	
	6010	7/25/2016	(0-0.5) in BGS	1.8	
	6011	7/25/2016	(0-0.5) in BGS	4.6	
	6012	7/25/2016	(0-0.5) in BGS	13	
	6013	7/25/2016	(0-0.5) in BGS	7.8	

Table 2.1

Floor Slab Sample Results - PCBs
Saginaw Malleable Industrial Land
Saginaw, Michigan

Historical Location (not surveyed)	Date	Depth	Total PCB Result (mg/kg)	2016 Survey Point ID
Area 11 (cont'd)				
6028	7/25/2016	(0-0.5) in BGS	2.3	
6043	7/25/2016	(0-0.5) in BGS	7.2	
6044	7/25/2016	(0-0.5) in BGS	11	
6045	7/25/2016	(0-0.5) in BGS	3.4	
6046	7/25/2016	(0-0.5) in BGS	5.0	
6047	7/25/2016	(0-0.5) in BGS	7.5	
6048	7/25/2016	(0-0.5) in BGS	8.3	
6049	7/25/2016	(0-0.5) in BGS	6.0	
6065	8/4/2016	(0-0.5) in BGS	2.7	
6066	8/4/2016	(0-0.5) in BGS	1.9	
6067	8/4/2016	(0-0.5) in BGS	4.5	
6068	8/4/2016	(0-0.5) in BGS	7.8	
Area 12				
C01-003	5/21/2001	(0-6) in BGS	39	
C01-003A	2/5/2008	(0-0.5) in BGS	20	
C01-003B	2/5/2008	(0-0.5) in BGS	45	
C01-003C	2/5/2008	(0-0.5) in BGS	127	
C01-003C	1/15/2009	(0.5-1) in BGS	96	
C01-003C	1/15/2009	(1-8.5) in BGS	2.9	
C01-003E	1/15/2009	(0-0.5) in BGS	18	
C01-003E	1/15/2009	(0.5-1) in BGS	11	
C01-003E	1/15/2009	(1-12) in BGS	0.22	
C01-003F	1/15/2009	(0-0.5) in BGS	0.052	
C01-003F	1/15/2009	(0.5-1) in BGS	ND	
C01-003F	1/15/2009	(1-14) in BGS	1.27	
C01-003G	1/15/2009	(0-0.5) in BGS	0.038	
C01-003G	1/15/2009	(0.5-1) in BGS	ND	
C01-003G	1/15/2009	(1-14.5) in BGS	ND	
C01-003H	11/4/2010	(0.5-5) in BGS	1.52	1228
C01-003H	11/5/2010	(0-0.5) in BGS	6.54	1228
C01-003I	11/4/2010	(0-0.5) in BGS	5.59	1230
C01-003J	11/4/2010	(0-0.5) in BGS	0.73	1231
C01-003K	11/4/2010	(0.5-5) in BGS	8.1	1227
C01-003K	11/5/2010	(0-0.5) in BGS	2.98	1227
6029	7/27/2016	(0-0.5) in BGS	2.3	
6030	7/27/2016	(0-0.5) in BGS	171	
6031	7/27/2016	(0-0.5) in BGS	19.3	
6032	7/27/2016	(0-0.5) in BGS	ND	
6033	7/27/2016	(0-0.5) in BGS	8.8	
6034	7/27/2016	(0-0.5) in BGS	430	
6035	7/27/2016	(0-0.5) in BGS	0.11 J	
6036	7/27/2016	(0-0.5) in BGS	56.2	
6037	7/27/2016	(0-0.5) in BGS	36.0	
6038	7/27/2016	(0-0.5) in BGS	116.4	
6039	7/27/2016	(0-0.5) in BGS	ND	
6040	7/27/2016	(0-0.5) in BGS	11.0	
6041	7/27/2016	(0-0.5) in BGS	2.2	
6050	7/27/2016	(0-0.5) in BGS	0.12 J	
6051	7/27/2016	(0-0.5) in BGS	0.96	
6052	7/27/2016	(0-0.5) in BGS	1.09	
6053	7/27/2016	(0-0.5) in BGS	25.4	
6055	7/27/2016	(0-0.5) in BGS	4.65	
6056	7/27/2016	(0-0.5) in BGS	39.7	

Note: Additional data was collected in 2016 as surveyed locations could not be matched to historical locations (see Figure 2.2)

Table 2.1

Floor Slab Sample Results - PCBs
Saginaw Malleable Industrial Land
Saginaw, Michigan

Historical Location (not surveyed)	Date	Depth	Total PCB Result (mg/kg)	2016 Survey Point ID
Area 12 (cont'd)				
6081	8/4/2016	(0-0.5) in BGS	ND	
6082	8/4/2016	(0-0.5) in BGS	ND	
6084	8/4/2016	(0-0.5) in BGS	ND	

Note: Additional data was collected in 2016 as surveyed locations could not be matched to historical locations (see Figure 2.2)

Area 13				
C00-009	2/29/2000	(0-6) in BGS	20	
C00-009A	11/4/2010	(0-0.5) in BGS	9.37	1226
C00-009B	1/25/1999	(0-6) in BGS	ND	1225
C00-009B	11/4/2010	(0-0.5) in BGS	6.9	1225
C00-009C	11/4/2010	(0-0.5) in BGS	1.15	1224
C00-009D	11/4/2010	(0-0.5) in BGS	4.88	1223

Note: See Figure 2.2 for graphical representation of data

Area 14				
KA-060	2/4/2008	(0-0.5) in BGS	4200	1172
KA-060	2/4/2008	(0.5-1) in BGS	4800	1172
KA-060	2/4/2008	(1-6) in BGS	1400	1172
KA-060	1/15/2009	(5-6.5) in BGS	130	1172
KA-060A	2/4/2008	(0-0.5) in BGS	15.6	1173
KA-060A	2/4/2008	(0.5-1) in BGS	14.9	1173
KA-060A	2/4/2008	(1-6) in BGS	1.01	1173
KA-060A	2/4/2008	(6-9.5) in BGS	0.36	1173
KA-060B	2/4/2008	(0-0.5) in BGS	10	1164
KA-060B	2/4/2008	(0.5-1) in BGS	0.24	1164
KA-060B	2/4/2008	(1-6) in BGS	ND	1164
KA-060B	2/4/2008	(6-7) in BGS	0.13	1164
KA-060C	2/4/2008	(0-0.5) in BGS	2.59	1163
KA-060C	2/4/2008	(0.5-1) in BGS	0.15	1163
KA-060C	2/4/2008	(1-6) in BGS	0.89	1163
KA-060D	2/4/2008	(0-0.5) in BGS	670	1171
KA-060D	2/4/2008	(0.5-1) in BGS	1800	1171
KA-060D	2/4/2008	(1-6) in BGS	21	1171
KA-060D	2/4/2008	(6-7) in BGS	0.259	1171
KA-060F	1/15/2009	(0-0.5) in BGS	1.86	1162
KA-060F	1/15/2009	(0.5-1) in BGS	0.025	1162
KA-060F	1/15/2009	(1-11.5) in BGS	ND	1162
KA-060G	1/15/2009	(0-0.5) in BGS	410	1170
KA-060G	1/15/2009	(0.5-1) in BGS	ND	1170
KA-060G	1/15/2009	(1-14) in BGS	0.033	1170
KA-060H	1/15/2009	(0-0.5) in BGS	16	1174
KA-060H	1/15/2009	(0.5-1) in BGS	1.4	1174
KA-060H	1/15/2009	(1-7.75) in BGS	1.4	1174
KA-060I	11/5/2010	(0-0.5) in BGS	10.03	1169
KA-060I	11/5/2010	(0.5-6) in BGS	0.075	1169
KA-060J	11/5/2010	(0-0.5) in BGS	2.06	1161
KA-060J	11/5/2010	(0.5-6) in BGS	ND	1161
KA-060M	9/29/2011	(0-0.5) in BGS	0.89	1168
KA-060M	9/29/2011	(0.5-6) in BGS	0.15	1168
KA-060N	9/29/2011	(0-0.5) in BGS	13	1167
KA-060N	9/29/2011	(0.5-6) in BGS	0.39	1167
KA-060O	9/29/2011	(0-0.5) in BGS	9.3	1166
KA-060O	9/29/2011	(0.5-6) in BGS	ND	1166
KA-060P	9/29/2011	(0-0.5) in BGS	9	1165
KA-060P	9/29/2011	(0.5-6) in BGS	ND	1165

Table 2.1

Floor Slab Sample Results - PCBs
Saginaw Malleable Industrial Land
Saginaw, Michigan

	Historical Location (not surveyed)	Date	Depth	Total PCB Result (mg/kg)	2016 Survey Point ID
Area 14 (cont'd)					
	KA-060Q	10/10/2011	(0-0.5) in BGS	9.6	60Z
	FLR-CMG-KA-060	6/15/2007	(0-0.5) in BGS	1500	1172
Note:	See Figure 2.3 for graphical representation of data				
Area 15					
	WAL-MFG-SL-056	6/14/2007	(0-0.5) in BGS	17	1251
	WAL-MFG-SL-056A	11/4/2010	(0-0.5) in BGS	0.52	1248
	WAL-MFG-SL-056B	11/4/2010	(0-0.5) in BGS	0.669	1247
	WAL-MFG-SL-056C	11/4/2010	(0-0.5) in BGS	0.297	1250
	WAL-MFG-SL-056D	11/4/2010	(0-0.5) in BGS	0.196	1249
Note:	See Figure 2.4 for graphical representation of data				
Area 16					
	C3119	11/26/1996	(0-0.5) in BGS	11	1246
	C3119	11/26/1996	(0.5-5) in BGS	3	1246
	C3119	11/26/1996	(5-10) in BGS	2.1	1246
	C3119-A	10/11/2013	(0-0.5) ft BGS	0.11	1241
	C3119-B	10/11/2013	(0-0.5) ft BGS	1.1	1242
	C3121	11/26/1996	(0-0.5) in BGS	12	
	C3121	11/26/1996	(0.5-5) in BGS	ND	
	C3121	11/26/1996	(5-10) in BGS	2.1	
	C3121-A	10/11/2013	(0-0.5) ft BGS	0.92	1243
	C3121-B	10/11/2013	(0-0.5) ft BGS	ND	1245
	C3121-C				1244
Note:	See Figure 2.5 for graphical representation of data				
Area 17					
	FLR-MFG-01-089	1/9/2007	(1-2) in BGS	18	
	FLR-MFG-01-089-A	6/20/2014	(0-2) in BGS	ND	1237
	FLR-MFG-01-089-B	6/20/2014	(0-2) in BGS	0.072	1238
	FLR-MFG-01-089-C	6/20/2014	(0-2) in BGS	0.031	1239
	FLR-MFG-01-089-D	6/20/2014	(0-2) in BGS	ND	1240
Note:	See Figure 2.5 for graphical representation of data				

Table 2.2

Kiln Area Floor Slab Sample Results - PCBs
Saginaw Malleable Industrial Land
Saginaw, Michigan

	2016 Sample Collection (Surveyed)	Date	Depth	Total PCB Result (mg/kg)	Media
Kilns 1-6 Area					
	6000	7/25/2016	(0-0.5) in BGS	2.2	CONC
	6001	7/25/2016	(0-0.5) in BGS	7.3	BRICK
	6003	7/25/2016	(0-0.5) in BGS	0.54	CONC
	6004	7/25/2016	(0-0.5) in BGS	13.0	CONC
	6005	7/25/2016	(0-0.5) in BGS	25.0	BRICK
	6006	7/25/2016	(0-0.5) in BGS	5.5	CONC
	6057	8/4/2016	(0-0.5) in BGS	8.4	CONC
	6058	8/4/2016	(0-0.5) in BGS	5.8	CONC
	6059	8/4/2016	(0-0.5) in BGS	11.0	BRICK
	6060	8/4/2016	(0-0.5) in BGS	11.0	CONC
	6061	8/4/2016	(0-0.5) in BGS	25.0	CONC
	6062	8/4/2016	(0-0.5) in BGS	150	BRICK
	6063	8/4/2016	(0-0.5) in BGS	2.7	CONC
	6064	8/4/2016	(0-0.5) in BGS	7.8	CONC
	6069	8/4/2016	(0-0.5) in BGS	1.5	BRICK
	6070	8/4/2016	(0-0.5) in BGS	4.4	BRICK
	6071	8/4/2016	(0-0.5) in BGS	4.6	BRICK
	6072	8/4/2016	(0-0.5) in BGS	5.1	CONC
	6089	8/19/2016	(0-0.5) in BGS	5.6	CONC
	6090	8/19/2016	(0-0.5) in BGS	5200	BRICK
	6090B	9/14/2016	(0-2.5) in BGS	6400	CONC
	6091	8/19/2016	(0-0.5) in BGS	330	CONC
	6092	8/19/2016	(0-0.5) in BGS	34.0	BRICK
	6093	8/19/2016	(0-0.5) in BGS	1200	BRICK
	6093B	9/14/2016	(0-2.5) in BGS	27	CONC
	6094	8/19/2016	(0-0.5) in BGS	4.2	CONC
	6095	8/19/2016	(0-0.5) in BGS	5.1	BRICK
	6096	8/19/2016	(0-0.5) in BGS	12.0	BRICK
	6097	8/19/2016	(0-0.5) in BGS	16.0	BRICK
	6098	8/19/2016	(0-0.5) in BGS	27.0	CONC
	6099	8/19/2016	(0-0.5) in BGS	1.9	CONC
	6100	8/19/2016	(0-0.5) in BGS	14.0	BRICK
	6101	8/19/2016	(0-0.5) in BGS	65.0	BRICK
	6102	8/19/2016	(0-0.5) in BGS	12.0	BRICK
	6104	8/19/2016	(0-0.5) in BGS	2.9	CONC
	6105	8/19/2016	(0-0.5) in BGS	5.9	CONC
	6107	8/19/2016	(0-0.5) in BGS	8.2	CONC
	6109	9/6/2016	(0-2.5) in BGS	1.7	CONC
	6110	9/2/2016	(0-2.5) in BGS	11.0	BRICK
	6113	9/2/2016	(0-2.5) in BGS	7.6	CONC
	6114	9/2/2016	(0-2.5) in BGS	70.0	BRICK
	6115	9/2/2016	(0-2.5) in BGS	2.0	BRICK
	6116	9/2/2016	(0-2.5) in BGS	590	CONC
	6117	9/2/2016	(0-2.5) in BGS	150	BRICK

Kiln Area Floor Slab Sample Results - PCBs
Saginaw Malleable Industrial Land
Saginaw, Michigan

2016 Sample Collection (Surveyed)	Date	Depth	Total PCB Result (mg/kg)	Media
Kilns 1-6 Area (cont'd)				
6118	9/2/2016	(0-2.5) in BGS	450	BRICK
6120	9/2/2016	(0-2.5) in BGS	8100	CONC
6121	9/2/2016	(0-2.5) in BGS	460	BRICK
6122	9/2/2016	(0-2.5) in BGS	9.0	BRICK
6123	9/2/2016	(0-2.5) in BGS	73.0	CONC
6124	9/2/2016	(0-2.5) in BGS	20.0	BRICK
6125	9/2/2016	(0-2.5) in BGS	3.8	BRICK
6126	9/6/2016	(0-2.5) in BGS	18.0	CONC
6127	9/6/2016	(0-2.5) in BGS	4.4	CONC
6128	9/6/2016	(0-2.5) in BGS	330	CONC
6130	9/21/2016	(0-2.5) in BGS	17	CONC
6131	9/21/2016	(0-2.5) in BGS	35	CONC
6132	9/21/2016	(0-2.5) in BGS	80	CONC
6133	9/21/2016	(0-2.5) in BGS	140	CONC
6134	9/27/2016	(0-2.5) in BGS	0.12	CONC
6135	9/27/2016	(0-2.5) in BGS	3.4	CONC
6136	9/21/2016	(0-2.5) in BGS	110	CONC
6137	9/21/2016	(0-2.5) in BGS	170	CONC
6138	9/21/2016	(0-2.5) in BGS	49	CONC
6139	9/21/2016	(0-2.5) in BGS	65	CONC
6140	9/21/2016	(0-2.5) in BGS	450	CONC
6141	9/21/2016	(0-2.5) in BGS	450	CONC
6142	9/21/2016	(0-2.5) in BGS	800	CONC
6143	9/21/2016	(0-2.5) in BGS	170	CONC
6261	10/6/2016	(0-2.5) in BGS	110	CONC
6262	10/6/2016	(0-2.5) in BGS	23000	CONC
6263	10/6/2016	(0-2.5) in BGS	28	CONC
6264	10/6/2016	(0-2.5) in BGS	5.9	CONC
6265	10/6/2016	(0-2.5) in BGS	30	CONC
6266	10/6/2016	(0-2.5) in BGS	0.75	CONC
6268	10/6/2016	(0-2.5) in BGS	6.2	CONC
6269	10/6/2016	(0-2.5) in BGS	0.86	CONC
6270	10/6/2016	(0-2.5) in BGS	2.6	CONC
6271	10/6/2016	(0-2.5) in BGS	20	CONC
6272	10/6/2016	(0-2.5) in BGS	2.2	CONC
6273	10/6/2016	(0-2.5) in BGS	33	CONC
6274	10/6/2016	(0-2.5) in BGS	24	CONC
6275	10/6/2016	(0-2.5) in BGS	7.3	CONC
6276	10/6/2016	(0-2.5) in BGS	9.1	CONC
6277	10/6/2016	(0-2.5) in BGS	370	CONC
6278	10/6/2016	(0-2.5) in BGS	57	CONC
6279	10/6/2016	(0-2.5) in BGS	380	CONC
6280	10/6/2016	(0-2.5) in BGS	0.84	CONC
6292	10/6/2016	(0-2.5) in BGS	45	CONC

Table 2.2

Kiln Area Floor Slab Sample Results - PCBs
Saginaw Malleable Industrial Land
Saginaw, Michigan

2016 Sample Collection (Surveyed)	Date	Depth	Total PCB Result (mg/kg)	Media
Kilns 1-6 Area (cont'd)				
6293	10/6/2016	(0-2.5) in BGS	30	CONC
6294	10/6/2016	(0-2.5) in BGS	35	CONC
6303	10/6/2016	(0-2.5) in BGS	29	CONC
6305	10/13/2016	(0-2.5) in BGS	0.24	CONC
6306	10/13/2016	(0-2.5) in BGS	0.073 J	CONC
6307	10/13/2016	(0-2.5) in BGS	0.11	CONC
6321	10/18/2016	(0-2.5) in BGS	11	CONC
6323	10/18/2016	(0-2.5) in BGS	1.9	CONC
6324	10/18/2016	(0-2.5) in BGS	10	CONC
6325	10/18/2016	(0-2.5) in BGS	20	CONC
6331	10/18/2016	(0-2.5) in BGS	33	CONC
6332	10/18/2016	(0-2.5) in BGS	5.5	CONC
6333	10/18/2016	(0-2.5) in BGS	110	CONC
6334	10/18/2016	(0-2.5) in BGS	64	CONC
6336	10/18/2016	(0-2.5) in BGS	48	CONC
6337	10/18/2016	(0-2.5) in BGS	4.7	CONC
6338	10/18/2016	(0-2.5) in BGS	5.8	CONC
6339	10/18/2016	(0-2.5) in BGS	59	CONC
6340	10/18/2016	(0-2.5) in BGS	57	CONC
6341	10/18/2016	(0-2.5) in BGS	29	CONC
6342	10/18/2016	(0-2.5) in BGS	10	CONC
6343	10/18/2016	(0-2.5) in BGS	26	CONC
6360	10/28/2016	(0-2.5) in BGS	0.028 J	CONC
6361	10/28/2016	(0-2.5) in BGS	11	CONC
6367	10/28/2016	(0-2.5) in BGS	5.8	BRICK
6372	11/4/2016	(0-2.5) in BGS	3.8	BRICK
6373	11/4/2016	(0-2.5) in BGS	0.35	BRICK
K3	9/14/2016	(0-2.5) in BGS	5.1	CONC
K4	9/14/2016	(0-2.5) in BGS	31	CONC
K4-1	9/27/2016	(0-2.5) in BGS	62	CONC
K4-2	9/27/2016	(0-2.5) in BGS	31	CONC
K4-3	9/27/2016	(0-2.5) in BGS	44	CONC
K4-4	9/27/2016	(0-2.5) in BGS	10	CONC
K4-6	9/27/2016	(0-2.5) in BGS	280	CONC
K4-7	9/27/2016	(0-2.5) in BGS	66	CONC
K4-8	9/27/2016	(0-2.5) in BGS	1700	CONC
K5	9/14/2016	(0-2.5) in BGS	33	CONC
K5-1	9/27/2016	(0-2.5) in BGS	260	CONC
K5-2	9/27/2016	(0-2.5) in BGS	49	CONC
K5-3	9/27/2016	(0-2.5) in BGS	32	CONC
K5-4	9/27/2016	(0-2.5) in BGS	8.9	CONC
K5-5	9/27/2016	(0-2.5) in BGS	3.1	CONC
K5-6	9/27/2016	(0-2.5) in BGS	2700	CONC
K5-7	9/27/2016	(0-2.5) in BGS	150	CONC

Table 2.2

Kiln Area Floor Slab Sample Results - PCBs
Saginaw Malleable Industrial Land
Saginaw, Michigan

	2016 Sample Collection (Surveyed)	Date	Depth	Total PCB Result (mg/kg)	Media
Kilns 1-6 Area (cont'd)					
	K5-8	9/27/2016	(0-2.5) in BGS	2.2	CONC
	K6	9/1/2016	(0-2.5) in BGS	2.4	BRICK
	K6B	9/14/2016	(0-2.5) in BGS	0.88	CONC
Kiln 7 to 13					
	K7	9/1/2016	(0-2.5) in BGS	9.3	BRICK
	K7B	9/14/2016	(0-2.5) in BGS	0.91	CONC
	K8	9/1/2016	(0-2.5) in BGS	1.4	BRICK
	K8B	9/14/2016	(0-2.5) in BGS	1.2	CONC
	K10	9/1/2016	(0-2.5) in BGS	13	BRICK
	K10B	9/14/2016	(0-2.5) in BGS	0.33	CONC
	K10-1	9/21/2016	(0-2.5) in BGS	8.2	BRICK
	K10-2	9/21/2016	(0-2.5) in BGS	1.6	BRICK
	K10-3	9/21/2016	(0-2.5) in BGS	1.3	BRICK
	K10-5	9/21/2016	(0-2.5) in BGS	43	BRICK
	K10-6	9/21/2016	(0-2.5) in BGS	0.27 J	BRICK
	K10-7	9/21/2016	(0-2.5) in BGS	5.6	BRICK
	K11	9/1/2016	(0-2.5) in BGS	120	BRICK
	K11B	9/14/2016	(0-2.5) in BGS	2.1	CONC
	K11-1	9/21/2016	(0-2.5) in BGS	11	BRICK
	K11-2	9/21/2016	(0-2.5) in BGS	10	BRICK
	K11-3	9/21/2016	(0-2.5) in BGS	1.3	BRICK
	K11-4	9/21/2016	(0-2.5) in BGS	3.3	BRICK
	K11-5	9/21/2016	(0-2.5) in BGS	21	BRICK
	K11-6	9/21/2016	(0-2.5) in BGS	5.4	BRICK
	K11-7	9/21/2016	(0-2.5) in BGS	9.1	BRICK
	K11-8	9/21/2016	(0-2.5) in BGS	14	BRICK
	K12	9/1/2016	(0-2.5) in BGS	1.1	BRICK
	K12B	9/14/2016	(0-2.5) in BGS	0.82	CONC
	K13	9/1/2016	(0-2.5) in BGS	0.79	BRICK
	K13B	9/14/2016	(0-2.5) in BGS	0.36	CONC
	6348	10/21/2016	(0-2.5) in BGS	3.2	BRICK
	6349	10/21/2016	(0-2.5) in BGS	7	BRICK
	6350	10/21/2016	(0-2.5) in BGS	1.23	BRICK
	6351	10/21/2016	(0-2.5) in BGS	37	BRICK
	6352	10/21/2016	(0-2.5) in BGS	1.7	BRICK
	6353	10/21/2016	(0-2.5) in BGS	5.9	BRICK
	6354	10/21/2016	(0-2.5) in BGS	7.3	BRICK
	6355	10/21/2016	(0-2.5) in BGS	47	BRICK
	6356	10/21/2016	(0-2.5) in BGS	1.4	BRICK
	6357	10/21/2016	(0-2.5) in BGS	7.5	BRICK
	6358	10/21/2016	(0-2.5) in BGS	12	BRICK
	6362	10/28/2016	(0-2.5) in BGS	600	BRICK
	6363	10/28/2016	(0-2.5) in BGS	1.3	BRICK

Kiln Area Floor Slab Sample Results - PCBs
Saginaw Malleable Industrial Land
Saginaw, Michigan

2016 Sample Collection (Surveyed)	Date	Depth	Total PCB Result (mg/kg)	Media
Kiln 7 to 13 (cont'd)				
6365	10/28/2016	(0-2.5) in BGS	32	BRICK
6366	10/28/2016	(0-2.5) in BGS	1.5	BRICK
6364	10/28/2016	(0-2.5) in BGS	0.44	BRICK
6367	11/3/2016	(0-2.5) in BGS	9.8	BRICK
6368	11/3/2016	(0-2.5) in BGS	13	BRICK
6369	11/3/2016	(0-2.5) in BGS	1.3	BRICK
6370	11/3/2016	(0-2.5) in BGS	0.75	BRICK
6371	11/3/2016	(0-2.5) in BGS	1.7	BRICK
6374	11/18/2016	(0-2.5) in BGS	0.83	BRICK
6376	11/18/2016	(0-2.5) in BGS	0.38	BRICK
6253	10/6/2016	(0-2.5) in BGS	4.5	BRICK
6254	10/6/2016	(0-2.5) in BGS	2	BRICK
6255	10/6/2016	(0-2.5) in BGS	1.6	BRICK
6257	10/6/2016	(0-2.5) in BGS	1.4	BRICK
6256	10/6/2016	(0-2.5) in BGS	0.91	BRICK
6260	10/6/2016	(0-2.5) in BGS	13	BRICK
6244	10/6/2016	(0-2.5) in BGS	81	BRICK
6251	10/6/2016	(0-2.5) in BGS	18	BRICK
6258	10/6/2016	(0-2.5) in BGS	4	BRICK
6242	10/6/2016	(0-2.5) in BGS	15	BRICK
6243	10/6/2016	(0-2.5) in BGS	1.6	BRICK
6246	10/6/2016	(0-2.5) in BGS	0.72	BRICK
6249	10/6/2016	(0-2.5) in BGS	4	BRICK
6248	10/6/2016	(0-2.5) in BGS	14	BRICK
6250	10/6/2016	(0-2.5) in BGS	14	BRICK
6308	10/13/2016	(0-2.5) in BGS	3.3	BRICK
6309	10/13/2016	(0-2.5) in BGS	9.1	BRICK
6310	10/13/2016	(0-2.5) in BGS	14	BRICK
6311	10/13/2016	(0-2.5) in BGS	8	BRICK
6312	10/13/2016	(0-2.5) in BGS	17	BRICK
6313	10/13/2016	(0-2.5) in BGS	2.1	BRICK
6314	10/13/2016	(0-2.5) in BGS	22	BRICK
6315	10/13/2016	(0-2.5) in BGS	3.8	BRICK
6316	10/13/2016	(0-2.5) in BGS	3.9	BRICK
6317	10/13/2016	(0-2.5) in BGS	0.99	BRICK
6318	10/13/2016	(0-2.5) in BGS	0.2	BRICK
6319	10/13/2016	(0-2.5) in BGS	25	BRICK
6320	10/13/2016	(0-2.5) in BGS	20	BRICK

Note: A sample was not collected at Kiln 9 as there was historical sampling completed around Kiln 9

Table 2.2

Kiln Area Floor Slab Sample Results - PCBs
Saginaw Malleable Industrial Land
Saginaw, Michigan

	2016 Sample Collection (Surveyed)	Date	Depth	Total PCB Result (mg/kg)	Media
Kiln 14 to 18					
	K14	9/1/2016	(0-2.5) in BGS	2.6	BRICK
	K14B	9/14/2016	(0-2.5) in BGS	0.53	CONC
	K15	9/1/2016	(0-2.5) in BGS	0.33	BRICK
	K15B	9/14/2016	(0-2.5) in BGS	0.1 J	CONC
	K16	9/14/2016	(0-2.5) in BGS	24	CONC
	K16-1	9/27/2016	(0-2.5) in BGS	260	CONC
	K16-2	9/27/2016	(0-2.5) in BGS	8.8	CONC
	K16-3	9/27/2016	(0-2.5) in BGS	17	CONC
	K16-4	9/27/2016	(0-2.5) in BGS	34	CONC
	K16-5	9/27/2016	(0-2.5) in BGS	1.9	CONC
	K16-6	9/27/2016	(0-2.5) in BGS	14	CONC
	K16-7	09/27/2016	(0-2.5) in BGS	3	CONC
	K16-8	09/27/2016	(0-2.5) in BGS	5.9	CONC
	K17	9/14/2016	(0-2.5) in BGS	3.8	CONC
	K18	9/14/2016	(0-2.5) in BGS	10	CONC
	6327	10/18/2016	(0-2.5) in BGS	2.6	CONC
	6328	10/18/2016	(0-2.5) in BGS	4.1	CONC
	6329	10/18/2016	(0-2.5) in BGS	3.6	CONC
	6345	10/21/2016	(0-2.5) in BGS	6.3	BRICK
	6346	10/21/2016	(0-2.5) in BGS	10	BRICK
	6347	10/21/2016	(0-2.5) in BGS	6.8	BRICK
	6297	10/07/16	(0-2.5) in BGS	19	CONC
	6291	10/07/16	(0-2.5) in BGS	9.4	CONC
	6298	10/07/16	(0-2.5) in BGS	17	CONC
	6286	10/07/16	(0-2.5) in BGS	5.3	CONC
	6289	10/07/16	(0-2.5) in BGS	3.5	CONC
	6285	10/07/16	(0-2.5) in BGS	5.7	CONC
	6284	10/07/16	(0-2.5) in BGS	1.3	CONC
	6287	10/07/16	(0-2.5) in BGS	4.5	CONC
	6288	10/07/16	(0-2.5) in BGS	1.7	CONC
	6282	10/07/16	(0-2.5) in BGS	2.9	CONC
	6299	10/07/16	(0-2.5) in BGS	5.7	BRICK
	6301	10/07/16	(0-2.5) in BGS	360	BRICK
	6283	10/07/16	(0-2.5) in BGS	16	BRICK
	6290	10/07/16	(0-2.5) in BGS	8.9	BRICK

Note: Sample labeling (K9 indicates sample was taken from Kiln 9 and a B indicates that a concrete sample was collected beneath a surficial brick sample)

Table 2.3

I27.7 Manhole Area Soil Sample Results - PCBs
Saginaw Malleable Industrial Land
Saginaw, Michigan

Historical Location (not surveyed)	Date	Depth	Total PCB Result (mg/kg)	2016 Survey Point ID
BH1-98	1/16/1998	1-3 ft BGS	100	1284
	1/16/1998	5-7 ft BGS	35	
	1/16/1998	9-11 ft BGS	0.4	
BH2-98	1/16/1998	1-3 ft BGS	2	1318
	1/16/1998	5-7 ft BGS	1.5	
	1/16/1998	9-11 ft BGS	ND (0.33)	
BH3-98	1/16/1998	1-3 ft BGS	0.44	1275
	1/16/1998	3-5 ft BGS	0.37	
	1/16/1998	5-6.5 ft BGS	29	
BH4-98	1/16/1998	1-3 ft BGS	42	1277
	1/16/1998	5-7 ft BGS	0.71	
	1/16/1998	7-7.25 ft BGS	19.8	
BH5-98	1/16/1998	1-3 ft BGS	4900	1316
	1/16/1998	5-7 ft BGS	3.6	
	1/16/1998	7-9 ft BGS	3.9	
BH6-98	4/15/1998	1-3 ft BGS	93	1268
	4/15/1998	7-9 ft BGS	ND (0.33)	
	4/15/1998	13-15 ft BGS	ND (0.33)	
BH7-98	4/15/1998	1-3 ft BGS	ND (0.33)	1290
	4/15/1998	7-9 ft BGS	ND (0.33)	
	4/15/1998	13-15 ft BGS	1500	
BH8-98	4/15/1998	1-3 ft BGS	0.51	1283
	4/15/1998	7-9 ft BGS	0.71	
BH1-13	10/8/2013	13-15 ft BGS	ND (0.037)	1286
BH2-13	10/8/2013	0.75-1.25 ft BGS	7.4 J	1289
	10/8/2013	13-15 ft BGS	ND (0.038)	
BH3-13	10/8/2013	13-15 ft BGS	ND (0.038)	1293
BH4-13	10/9/2013	3-5 ft BGS	ND (0.039)	1301
	10/9/2013	3-5 ft BGS	ND (0.039)	
	10/9/2013	4-5 ft BGS	ND (0.039)	
BH5-13	10/9/2013	1-3 ft BGS	32 J	1315
	10/9/2013	5-7 ft BGS	1 J	
	10/9/2013	9-10 ft BGS	0.66 J	
BH6-13	10/9/2013	1-3 ft BGS	820 J	1261
BH6R-13	12/30/2013	4-5 ft BGS	0.17	1262
	12/30/2013	7-8 ft BGS	92	
	12/30/2013	9-10 ft BGS	1.7	
BH6R2-14	4/14/2014	7-8 ft BGS	79	1263
	4/14/2014	11-13 ft BGS	0.82	
BH7-13	10/9/2013	5-7 ft BGS	1.8 J	1317
BH8-13	10/9/2013	5-7 ft BGS	0.62 J	1276
BH9-13	10/9/2013	1-3 ft BGS	0.7 J	1278
	10/9/2013	7-9 ft BGS	9.9 J	
BH10-13	10/9/2013	1-3 ft BGS	0.273 J	1280
	10/9/2013	7-8.5 ft BGS	0.49 J	

Table 2.3

I27.7 Manhole Area Soil Sample Results - PCBs
Saginaw Malleable Industrial Land
Saginaw, Michigan

Historical Location (not surveyed)	Date	Depth	Total PCB Result (mg/kg)	2016 Survey Point ID
BH11-13	10/9/2013	1-3 ft BGS	1.04 J	1273
	10/9/2013	6-7.5 ft BGS	1.2 J	
	10/9/2013	6-7.5 ft BGS	2.05 J	
BH12-13	Step-out - not analyzed			1286
BH13-13	Step-out - not analyzed			1292
BH14-13	Step-out - not analyzed			1294
BH15-13	Step-out - not analyzed			1300
BH16-13	10/9/2013	1-3 ft BGS	3800 J	1302
	10/9/2013	5-7 ft BGS	5.9 J	
	10/9/2013	5-7 ft BGS	3.6 J	
BH16R-13	12/30/2013	8-10 ft BGS	ND (0.038)	1302
BH17-13	10/9/2013	1-3 ft BGS	1.2 J	1303
	10/9/2013	6-8 ft BGS	0.38 J	
BH18-13	10/9/2013	1-3 ft BGS	0.58 J	1310
BH18R-14	4/14/2014	1-3 ft BGS	12	1311
BH19-13	10/9/2013	5-7 ft BGS	1.07 J	1266
BH19R-13	12/30/2013	2-3 ft BGS	0.47	1267
	12/30/2013	6-7.5 ft BGS	0.38	
BH20-13	10/9/2013	1-3 ft BGS	0.47 J	1271
	10/9/2013	6-7.5 ft BGS	3.13 J	
BH21-13	10/9/2013	1-3 ft BGS	2.05 J	1272
	10/9/2013	8.5-10 ft BGS	ND (0.038)	
BH22-13	10/9/2013	1-3 ft BGS	0.77 J	1257
	10/9/2013	6-7.5 ft BGS	ND (0.04)	
BH23-13	Step-out - not analyzed			1281
BH24-13	Step-out - not analyzed			1282
BH25-13	12/30/2013	2-3 ft BGS	0.138	1256
BH26-13	12/30/2013	6-7.5 ft BGS	5.3	1270
BH27-13	12/30/2013	2-3 ft BGS	0.16	1323
	12/30/2013	9-10 ft BGS	ND (0.043)	
BH28-13	12/30/2013	2-3 ft BGS	200	1264
	12/30/2013	7-8 ft BGS	9.2	
	12/30/2013	7-8 ft BGS	2.6	
BH28R-14	4/14/2014	2-3 ft BGS	25	1265
	4/14/2014	7-8 ft BGS	7.5	
BH29-13	12/30/2013	2-3 ft BGS	23	1305
	12/30/2013	7-8 ft BGS	0.095	
BH30-13	12/30/2013	1.5-3.5 ft BGS	3	1304
	12/30/2013	4-5 ft BGS	4.1	
	12/30/2013	7-8 ft BGS	ND (0.038)	
BH31-13	12/30/2013	2-3 ft BGS	ND (0.041)	1258
	12/30/2013	4-5 ft BGS	0.02	
	12/30/2013	4-5 ft BGS	ND (0.037)	
	12/30/2013	7-8 ft BGS	ND (0.038)	
BH32-13	12/30/2013	2-3 ft BGS	0.065	1298

I27.7 Manhole Area Soil Sample Results - PCBs
Saginaw Malleable Industrial Land
Saginaw, Michigan

Historical Location (not surveyed)	Date	Depth	Total PCB Result (mg/kg)	2016 Survey Point ID
	12/30/2013	6-7 ft BGS	ND (0.038)	
BH33-13	12/30/2013	2-3 ft BGS	0.036 J	1296
	12/30/2013	6-7 ft BGS	ND (0.04)	
BH34-13	Step-out - not analyzed			1297
BH35-13	4/14/2014	2-3 ft BGS	ND (0.039)	1306
	4/14/2014	4-5 ft BGS	0.13	
	4/14/2014	8-10 ft BGS	ND (0.039)	
BH36-14	4/14/2014	1-3 ft BGS	0.17	1309
	4/14/2014	1-3 ft BGS	0.51	
BH37-14	Step-out - not analyzed			1329
BH38-14	4/14/2014	2-3 ft BGS	0.54	1327
	4/14/2014	6-8 ft BGS	2.3	
	4/14/2014	6-8 ft BGS	1.1	
	4/14/2014	13-15 ft BGS	0.22	
BH39-14	4/15/2014	2-3 ft BGS	ND (0.2)	1325
	4/15/2014	6-8 ft BGS	0.046	
	4/15/2014	8-10 ft BGS	0.25	
	4/15/2014	8-10 ft BGS	0.17	
BH40-14	4/15/2014	2-3 ft BGS	0.096	1324
	4/15/2014	6-8 ft BGS	0.05	
	4/15/2014	8-10 ft BGS	0.17	
BH41-14	4/14/2014	2-3 ft BGS	2.8	1254
	4/14/2014	6-7 ft BGS	0.67	
	4/14/2014	8-9.5 ft BGS	0.22	
BH42-14	4/15/2014	2-3 ft BGS	0.15	
	4/15/2014	7-8 ft BGS	0.018 J	
	4/15/2014	13-15 ft BGS	ND (0.038)	
BH43-14	4/15/2014	2-3 ft BGS	0.17	1291
	4/15/2014	7-8 ft BGS	160	
	4/15/2014	13-15 ft BGS	0.024 J	
BH44-14	4/15/2014	2-3 ft BGS	0.26	
	4/15/2014	6-7 ft BGS	0.52	
BH45-14	Step-out - not analyzed			1307
BH46-14	Step-out - not analyzed			1308
BH47-14	4/14/2014	2-3 ft BGS	0.16	1260
	4/14/2014	7-8 ft BGS	0.164 J	
	4/14/2014	13-15 ft BGS	0.039	
BH48-14	4/14/2014	2-3 ft BGS	0.447 J	1326
	4/14/2014	6-8 ft BGS	0.11	
	4/14/2014	13-15 ft BGS	0.094	
BH49-14	4/14/2014	2-3 ft BGS	0.14	1328
	4/14/2014	6-8 ft BGS	0.58	
	4/14/2014	13.5-15 ft BGS	ND (0.037)	
BH50-14	5/22/2014	2-3 ft BGS	0.74	1253
	5/22/2014	2-3 ft BGS	1.7	

Table 2.3

I27.7 Manhole Area Soil Sample Results - PCBs
Saginaw Malleable Industrial Land
Saginaw, Michigan

Historical Location (not surveyed)	Date	Depth	Total PCB Result (mg/kg)	2016 Survey Point ID
BH51-14	5/22/2014	2-3 ft BGS	0.067	1252
BH52-14	5/22/2014	2-3 ft BGS	0.083	1287
	5/22/2014	7-8 ft BGS	ND (0.038)	
BH53-14	5/22/2014	2-3 ft BGS	ND (0.038)	
	5/22/2014	7-8 ft BGS	ND (0.041)	
BH54-14	5/22/2014	1-2 ft BGS	0.113	1330
	5/22/2014	7-8 ft BGS	ND (0.037)	
	5/22/2014	15-16 ft BGS	ND (0.038)	

Table 7.1

I27.7 Manhole Area Post-Excavation Floor Verification Sample Results and Additional Boring Results - PCBs
Saginaw Malleable Industrial Land
Saginaw, Michigan

Location	Date	Depth	Total PCB Result (mg/kg)
Post-Excavation Floor Verification Grab Sample Results			
I27-C	10/18/2016	(0.5-1.5) ft BTCFS	50
I27-B	10/18/2016	(1.5-2.5) ft BTCFS	400
I27-D	10/18/2016	(1.5-2.5) ft BTCFS	40
I27-A	10/18/2016	(3-4) ft BTCFS	14
I27-E	10/18/2016	(4-5) ft BTCFS	470
Post-Excavation Floor Verification Composite Sample Results			
A-Comp	1/31/2017	(1.8 to 5.7) BTCFS	0.39
B1-Comp	1/31/2017	(2.9 to 4.4) ft BTCFS	0.02 J
C1-Comp	1/31/2017	(3.2 to 4.4) ft BTCFS	0.022 J
D-Comp	1/31/2017	(2.3 to 3.3) ft BTCFS	0.59
B2-Comp	2/7/2017	(3.5-5.0) ft BTCFS	11
C2-Comp	2/7/2017	(3.9-5.0) ft BTCFS	6.8
Additional Boring Sample Results			
BH58-17	1/31/2017	(0-2) ft BTCFS	0.039 J
	1/31/2017	(2-4) ft BTCFS	1.2
	1/31/2017	(4-6) ft BTCFS	0.19
BH59-17	1/31/2017	(0-2) ft BTCFS	21
	1/31/2017	(2-4) ft BTCFS	0.51
	1/31/2017	(4-6) ft BTCFS	0.049 J

Notes:

BTCFS Below top of concrete floor slab
J Estimated value

Table 9.1

Summary of PCBs in the Floor Slab Greater than 1 ppm
Saginaw Malleable Industrial Land
Saginaw, Michigan

Location	Date	Depth	Total PCB Result (mg/kg)
Floor Sample Locations Collected from July 2016 to December 2016 - Surveyed			
6000	7/25/2016	(0-0.5) in bgs	2.2
6006	7/25/2016	(0-0.5) in bgs	5.5
6007	7/25/2016	(0-0.5) in bgs	2.6
6008	7/25/2016	(0-0.5) in bgs	2.8
6009	7/25/2016	(0-0.5) in bgs	1.3
6010	7/25/2016	(0-0.5) in bgs	1.8
6011	7/25/2016	(0-0.5) in bgs	4.6
6013	7/25/2016	(0-0.5) in bgs	7.8
6015	7/25/2016	(0-0.5) in bgs	4.3
6016	7/25/2016	(0-0.5) in bgs	8.5
6022	7/25/2016	(0-0.5) in bgs	1.5
6023	7/25/2016	(0-0.5) in bgs	1.9 J
6026	7/25/2016	(0-0.5) in bgs	2.4
6027	7/25/2016	(0-0.5) in bgs	4.8
6028	7/25/2016	(0-0.5) in bgs	2.3
6029	7/25/2016	(0-0.5) in bgs	2.3
6033	7/25/2016	(0-0.5) in bgs	8.8
6041	7/25/2016	(0-0.5) in bgs	2.2
6043	7/25/2016	(0-0.5) in bgs	7.2
6045	7/25/2016	(0-0.5) in bgs	3.4
6046	7/25/2016	(0-0.5) in bgs	5
6047	7/25/2016	(0-0.5) in bgs	7.5
6048	7/25/2016	(0-0.5) in bgs	8.3
6049	7/25/2016	(0-0.5) in bgs	6
6052	7/25/2016	(0-0.5) in bgs	1.09
6055	7/25/2016	(0-0.5) in bgs	4.65 J
6057	8/4/2016	(0-0.5) in bgs	8.4
6058	8/4/2016	(0-0.5) in bgs	5.8
6063	8/4/2016	(0-0.5) in bgs	2.7
6064	8/4/2016	(0-0.5) in bgs	7.8
6065	8/4/2016	(0-0.5) in bgs	2.7
6066	8/4/2016	(0-0.5) in bgs	1.9
6067	8/4/2016	(0-0.5) in bgs	4.5
6068	8/4/2016	(0-0.5) in bgs	7.8
6072	8/4/2016	(0-0.5) in bgs	5.1
6074	8/4/2016	(0-0.5) in bgs	2.6
6075	8/4/2016	(0-0.5) in bgs	1.7
6077	8/4/2016	(0-0.5) in bgs	4.3
6078	8/4/2016	(0-0.5) in bgs	9.2

Table 9.1

Summary of PCBs in the Floor Slab Greater than 1 ppm
Saginaw Malleable Industrial Land
Saginaw, Michigan

Location	Date	Depth	Total PCB Result (mg/kg)
Floor Sample Locations Collected from July 2016 to December 2016 - Surveyed (cont'd)			
6079	8/4/2016	(0-0.5) in bgs	1.4
6080	8/4/2016	(0-0.5) in bgs	3.8
6089	8/19/2016	(0-0.5) in bgs	5.6
6104	8/19/2016	(0-0.5) in bgs	2.9
6105	8/19/2016	(0-0.5) in bgs	5.9
6107	8/19/2016	(0-0.5) in bgs	8.2
6109	9/6/2016	(0-2.5) in bgs	1.7
6127	9/6/2016	(0-2.5) in bgs	4.4
6135	9/27/2016	(0-2.5) in bgs	3.4
6264	10/6/2016	(0-2.5) in bgs	5.9
6268	10/6/2016	(0-2.5) in bgs	6.2
6270	10/6/2016	(0-2.5) in bgs	2.6
6272	10/6/2016	(0-2.5) in bgs	2.2
6275	10/6/2016	(0-2.5) in bgs	7.3
6276	10/6/2016	(0-2.5) in bgs	9.1
6282	10/7/2016	(0-2.5) in bgs	2.9
6284	10/7/2016	(0-2.5) in bgs	1.3
6285	10/7/2016	(0-2.5) in bgs	5.7
6286	10/7/2016	(0-2.5) in bgs	5.3
6287	10/7/2016	(0-2.5) in bgs	4.5
6288	10/7/2016	(0-2.5) in bgs	1.7
6289	10/7/2016	(0-2.5) in bgs	3.5
6291	10/7/2016	(0-2.5) in bgs	9.4
6323	10/18/2016	(0-2.5) in BGS	1.9
6324	10/18/2016	(0-2.5) in BGS	10
6327	10/18/2016	(0-2.5) in BGS	2.6
6328	10/18/2016	(0-2.5) in BGS	4.1
6329	10/18/2016	(0-2.5) in BGS	3.6
6337	10/18/2016	(0-2.5) in BGS	4.7
6338	10/18/2016	(0-2.5) in BGS	5.8
6367	10/28/2016	(0-2.5) in BGS	5.8
6372	11/4/2016	(0-2.5) in bgs	3.8
6001-B	7/25/2016	(0-0.5) in bgs	7.3
6069-B	8/4/2016	(0-0.5) in bgs	1.5
6071-B	8/4/2016	(0-0.5) in bgs	4.6
6095-B	8/19/2016	(0-0.5) in bgs	5.1
6115-B	9/2/2016	(0-2.5) in bgs	2
6125-B	9/2/2016	(0-2.5) in bgs	3.8
6243-B	10/6/2016	(0-2.5) in bgs	1.6

Table 9.1

Summary of PCBs in the Floor Slab Greater than 1 ppm
Saginaw Malleable Industrial Land
Saginaw, Michigan

Location	Date	Depth	Total PCB Result (mg/kg)
Floor Sample Locations Collected from July 2016 to December 2016 - Surveyed (cont'd)			
6249-B	10/6/2016	(0-2.5) in bgs	4
6253-B	10/6/2016	(0-2.5) in bgs	4.5
6254-B	10/6/2016	(0-2.5) in bgs	2
6255-B	10/6/2016	(0-2.5) in bgs	1.6
6257-B	10/6/2016	(0-2.5) in bgs	1.4
6258-B	10/6/2016	(0-2.5) in bgs	4
6290-B	10/7/2016	(0-2.5) in bgs	8.9
6299-B	10/7/2016	(0-2.5) in bgs	5.7
6308-B	10/13/2016	(0-2.5) in bgs	3.3
6345-B	10/21/2016	(0-2.5) in BGS	6.3
6346-B	10/21/2016	(0-2.5) in BGS	10
6347-B	10/21/2016	(0-2.5) in BGS	6.8
6348-B	10/21/2016	(0-2.5) in BGS	3.2
6349-B	10/21/2016	(0-2.5) in BGS	7
6350-B	10/21/2016	(0-2.5) in BGS	1.23
6352-B	10/21/2016	(0-2.5) in BGS	1.7
6356-B	10/21/2016	(0-2.5) in BGS	1.4
6357-B	10/21/2016	(0-2.5) in BGS	7.5
6363-B	10/28/2016	(0-2.5) in BGS	1.3
6366-B	10/28/2016	(0-2.5) in BGS	1.5
6367-B	11/3/2016	(0-2.5) in bgs	9.8
6369-B	11/3/2016	(0-2.5) in bgs	1.3
6371-B	11/3/2016	(0-2.5) in bgs	1.7
A1B	8/19/2016	(0-0.5) in bgs	3.9
A1F-B	8/19/2016	(0-0.5) in bgs	2.4
A1G-B	8/4/2016	(0-0.5) in bgs	2
A1K-B	8/4/2016	(0-0.5) in bgs	6.9
A1L-B	8/4/2016	(0-0.5) in bgs	5.3
A1M-B	8/4/2016	(0-0.5) in bgs	1.9
A1N-B	8/4/2016	(0-0.5) in bgs	7.7
K10-1-B	9/21/2016	(0-2.5) in bgs	8.2
K10-2-B	9/21/2016	(0-2.5) in bgs	1.6 J
K10-3-B	9/21/2016	(0-2.5) in bgs	1.3
K10-7-B	9/21/2016	(0-2.5) in bgs	5.6
K11	9/14/2016	(2.5-5) in bgs	2.1
K11-2-B	9/21/2016	(0-2.5) in bgs	10
K11-6-B	9/21/2016	(0-2.5) in bgs	5.4
K12-B	9/1/2016	(0-2.5) in bgs	1.1
K14-B	9/1/2016	(0-2.5) in bgs	2.6

Table 9.1

Summary of PCBs in the Floor Slab Greater than 1 ppm
Saginaw Malleable Industrial Land
Saginaw, Michigan

Location	Date	Depth	Total PCB Result (mg/kg)
Floor Sample Locations Collected from July 2016 to December 2016 - Surveyed (cont'd)			
K16-2	9/27/2016	(0-2.5) in bgs	8.8
K16-5	9/27/2016	(0-2.5) in bgs	1.9
K16-7	9/27/2016	(0-2.5) in BGS	3 J
K16-8	9/27/2016	(0-2.5) in bgs	5.9
K17	9/14/2016	(0-2.5) in bgs	3.8
K18	9/14/2016	(0-2.5) in bgs	10
K3	9/14/2016	(0-2.5) in bgs	5.1
K5-8	9/27/2016	(0-2.5) in bgs	2.2
K6-B	9/1/2016	(0-2.5) in bgs	2.4
K7-B	9/1/2016	(0-2.5) in bgs	9.3
K8	9/14/2016	(2.5-5) in bgs	1.2
K8-B	9/1/2016	(0-2.5) in bgs	1.4
Floor Sample Locations Collected prior to July 2016 - Not Surveyed			
C00-002	1/26/2000	-	1
C00-006B	1/25/1999	-	1.6
C00-007B	1/25/1999	(0-6) in BGS	1.4
C00-009A	11/4/2010	(0-0.5) in BGS	9.37 J
C00-009B	11/4/2010	(0-0.5) in BGS	6.9
C00-009C	11/4/2010	(0-0.5) in BGS	1.15
C00-009D	11/4/2010	(0-0.5) in BGS	4.88
C00-011B	1/25/1999	-	1.4
C00-012B	1/25/1999	(0-6) in BGS	2
C00-031	3/1/2000	(0-6) in BGS	1.6
C00-066	3/21/2000	(0-6) in BGS	1.5
C00-068	3/21/2000	(0-6) in BGS	6
C00-069	3/21/2000	(0-6) in BGS	1.2
C00-070	3/21/2000	(0-6) in BGS	23
C00-070A	11/5/2010	(0-0.5) in BGS	6.9
C00-072	3/21/2000	(0-6) in BGS	6
C00-073	3/21/2000	(0-6) in BGS	3.2
C00-074	3/21/2000	(0-6) in BGS	1.8
C00-075	3/21/2000	(0-6) in BGS	2.4
C00-076	3/21/2000	(0-6) in BGS	2.3
C00-078	3/21/2000	(0-6) in BGS	1.6
C00-081	3/21/2000	(0-6) in BGS	1
C00-083	3/21/2000	(0-6) in BGS	3
C00-084	3/21/2000	(0-6) in BGS	1
C00-085	3/21/2000	(0-6) in BGS	1.5

Table 9.1

Summary of PCBs in the Floor Slab Greater than 1 ppm
Saginaw Malleable Industrial Land
Saginaw, Michigan

Location	Date	Depth	Total PCB Result (mg/kg)
Floor Sample Locations Collected prior to July 2016 - Not Surveyed (cont'd)			
C00-095	4/3/2000	(0-6) in BGS	2
C00-097	4/14/2000	(0-6) in BGS	4.4
C00-098A	9/29/2011	(0-6) in BGS	1.1
C00-098C	9/29/2011	(0-6) in BGS	1.1
C00-098D	9/29/2011	(0-6) in BGS	1.8
C00-101	4/28/2000	(0-6) in BGS	1.9
C00-103	4/28/2000	(0-6) in BGS	5.7
C00-110	5/22/2000	(0-6) in BGS	2
C00-111	5/22/2000	(0-6) in BGS	5.2
C00-112	5/22/2000	(0-6) in BGS	8.8
C00-114	5/22/2000	(0-6) in BGS	5.7
C00-115	5/22/2000	(0-6) in BGS	2
C00-116	5/22/2000	(0-6) in BGS	9
C00-117	5/22/2000	(0-6) in BGS	30
C00-117A	2/4/2008	(0-0.5) in BGS	7.7
C00-117B	2/4/2008	(0-0.5) in BGS	27
C00-117C	1/16/2009	(0-0.5) in BGS	2.47
C00-117D	1/16/2009	(0-0.5) in BGS	5.8
C00-118	5/22/2000	(0-6) in BGS	7
C00-119	5/22/2000	(0-6) in BGS	1.5
C00-120	5/22/2000	(0-6) in BGS	6
C00-121	5/22/2000	(0-6) in BGS	12
C00-122	5/22/2000	(0-6) in BGS	3
C00-123	5/22/2000	(0-6) in BGS	2.5
C00-124	5/22/2000	(0-6) in BGS	2
C00-125	5/22/2000	(0-6) in BGS	4
C00-126A	2/4/2008	(0-0.5) in BGS	5.9
C00-126C	2/4/2008	(0-0.5) in BGS	7.15 J
C00-127	5/22/2000	(0-6) in BGS	1.3
C00-134	9/1/2000	-	3.4
C00-135	9/1/2000	-	3.8
C00-150	11/22/2000	(0-6) in BGS	5
C00-151	11/22/2000	(0-6) in BGS	1.3
C00-152	11/22/2000	(0-6) in BGS	5
C00-155	11/22/2000	(0-6) in BGS	8
C00-156	11/22/2000	(0-6) in BGS	9
C00-157	11/22/2000	(0-6) in BGS	5
C00-161	11/22/2000	(0-6) in BGS	2.3
C00-162	11/22/2000	(0-6) in BGS	2.5

Table 9.1

Summary of PCBs in the Floor Slab Greater than 1 ppm
Saginaw Malleable Industrial Land
Saginaw, Michigan

Location	Date	Depth	Total PCB Result (mg/kg)
Floor Sample Locations Collected prior to July 2016 - Not Surveyed (cont'd)			
C00-164	11/22/2000	(0-6) in BGS	1.7
C00-165	11/22/2000	(0-6) in BGS	10
C01-003F	1/15/2009	(1-14) in BGS	1.27
C01-003H	11/5/2010	(0-0.5) in BGS	6.54
C01-003I	11/4/2010	(0-0.5) in BGS	5.59
C01-003K	11/4/2010	(0.5-5) in BGS	8.1 J
C01-028	8/23/2001	(0-6) in BGS	1.2
C01-029	8/23/2001	(0-6) in BGS	1
C02-002	1/23/2002	(0-6) in BGS	9
C02-003	1/23/2002	(0-6) in BGS	9
C02-010	6/4/2002	(0-6) in BGS	1.6
C02-011	6/14/2002	(0-6) in BGS	6
C02-012	6/14/2002	(0-6) in BGS	2.1
C02-038C	8/29/2002	(0-6) in BGS	3.5
C02-039C	8/29/2002	(0-6) in BGS	1.5
C02-040C	8/29/2002	(0-6) in BGS	3
C02-041C	8/29/2002	(0-6) in BGS	3.4
C02-042C	8/29/2002	(0-6) in BGS	1.3
C02-043C	8/29/2002	(0-6) in BGS	4.9
C02-044C	8/29/2002	(0-6) in BGS	2.4
C02-045C	8/29/2002	(0-6) in BGS	1
C02-049C	8/29/2002	(0-6) in BGS	1.4
C02-050C	8/29/2002	(0-6) in BGS	4.3
C03-006	2/5/2003	(0-6) in BGS	6.1
C03-007	2/5/2003	(0-6) in BGS	3.4
C03-008	2/5/2003	(0-6) in BGS	106
C03-008A	2/5/2008	(0.5-1) in BGS	7.9
C03-008B	2/5/2008	(0-0.5) in BGS	5.5
C03-008C	2/5/2008	(0-0.5) in BGS	1.7
C03-008D	2/5/2008	(0.5-1) in BGS	3.4
C03-009	2/5/2003	(0-6) in BGS	1.7
C3119-B	10/11/2013	(0-0.5) ft BGS	1.1
C98-001	2/10/1998	(0-6) in BGS	2.2
C99-013	1/27/1999	(0-6) in BGS	1
C99-024	2/8/1999	(0-6) in BGS	4
C99-025	2/8/1999	(0-6) in BGS	37
C99-025A	2/4/2008	(0-0.5) in BGS	4.2
C99-038	2/26/1999	(0-6) in BGS	2.5
C99-047	3/15/1999	(0-6) in BGS	1.5

Table 9.1

Summary of PCBs in the Floor Slab Greater than 1 ppm
Saginaw Malleable Industrial Land
Saginaw, Michigan

Location	Date	Depth	Total PCB Result (mg/kg)
Floor Sample Locations Collected prior to July 2016 - Not Surveyed (cont'd)			
C99-051	3/15/1999	(0-6) in BGS	2
C99-052	3/16/1999	(0-6) in BGS	1.8
C99-054	3/16/1999	(0-6) in BGS	3
C99-055	3/16/1999	(0-6) in BGS	1
C99-056	3/16/1999	(0-6) in BGS	5
C99-057	3/16/1999	(0-6) in BGS	2
C99-146	12/7/1999	(0-6) in BGS	1.3
CBF-CMG-FD-169	6/21/2007	(0-0.5) in BGS	2.5
CBF-CMG-KA-065	6/15/2007	(0-0.5) in BGS	2
CBF-CMG-KA-068	6/15/2007	(0-0.5) in BGS	1.5
CBF-CMG-KA-082	6/18/2007	(0-0.5) in BGS	5
CBF-CMG-KA-086	6/18/2007	(0-0.5) in BGS	4.5
CBF-CMG-KA-087	6/18/2007	(0-0.5) in BGS	6
CBF-CMG-KA-089	6/18/2007	(0-0.5) in BGS	1.8
CBF-CMG-KA-092	6/18/2007	(0-0.5) in BGS	2
CBF-CMG-KA-103	6/18/2007	(0-0.5) in BGS	10
FLR-CMG-01-039D	10/10/2011	(0-2) in BGS	7.7
FLR-CMG-01-039D	9/29/2011	(0-2) in BGS	2.5
FLR-CMG-01-039E	10/10/2011	(0-2) in BGS	8.6
FLR-CMG-01-042	1/4/2007	(1-2) in BGS	2.5
FLR-CMG-01-043A	9/29/2011	(0-2) in BGS	4.8
FLR-CMG-01-043F	10/10/2011	(0-2) in BGS	8.4
FLR-CMG-01-059	1/4/2007	(1-2) in BGS	1.2
FLR-CMG-01-108	1/9/2007	(1-2) in BGS	2
FLR-CMG-FD-167	6/21/2007	(0-0.5) in BGS	3
FLR-CMG-FD-171	6/21/2007	(0-0.5) in BGS	1.5
FLR-CMG-FD-173	6/21/2007	(0-0.5) in BGS	2
FLR-CMG-FD-176	6/21/2007	(0-0.5) in BGS	1.4
FLR-CMG-FD-179	6/21/2007	(0-0.5) in BGS	2
FLR-CMG-FS-112	6/18/2007	(0-0.5) in BGS	10
FLR-CMG-FS-113	6/18/2007	(0-0.5) in BGS	7.5
FLR-CMG-FS-114	6/18/2007	(0-0.5) in BGS	3
FLR-CMG-FS-115	6/18/2007	(0-0.5) in BGS	6
FLR-CMG-KA-059	6/15/2007	(0-0.5) in BGS	2
FLR-CMG-KA-061	6/15/2007	(0-0.5) in BGS	5
FLR-CMG-KA-062	6/15/2007	(0-0.5) in BGS	2
FLR-CMG-KA-063	6/15/2007	(0-0.5) in BGS	1
FLR-CMG-KA-066	6/15/2007	(0-0.5) in BGS	1
FLR-CMG-KA-067	6/15/2007	(0-0.5) in BGS	3

Table 9.1

Summary of PCBs in the Floor Slab Greater than 1 ppm
Saginaw Malleable Industrial Land
Saginaw, Michigan

Location	Date	Depth	Total PCB Result (mg/kg)
Floor Sample Locations Collected prior to July 2016 - Not Surveyed (cont'd)			
FLR-CMG-KA-069	6/15/2007	(0-0.5) in BGS	3
FLR-CMG-KA-070	6/15/2007	(0-0.5) in BGS	5
FLR-CMG-KA-071	6/15/2007	(0-0.5) in BGS	2.5
FLR-CMG-KA-072	6/15/2007	(0-0.5) in BGS	1.2
FLR-CMG-KA-073	6/15/2007	(0-0.5) in BGS	1.5
FLR-CMG-KA-076	6/15/2007	(0-0.5) in BGS	1
FLR-CMG-KA-080	6/18/2007	(0-0.5) in BGS	2
FLR-CMG-KA-081	6/18/2007	(0-0.5) in BGS	4.5
FLR-CMG-KA-083	6/18/2007	(0-0.5) in BGS	5
FLR-CMG-KA-085	6/18/2007	(0-0.5) in BGS	1
FLR-CMG-KA-088	6/18/2007	(0-0.5) in BGS	1.8
FLR-CMG-KA-090	6/18/2007	(0-0.5) in BGS	3
FLR-CMG-KA-091	6/18/2007	(0-0.5) in BGS	1.3
FLR-CMG-KA-094	6/18/2007	(0-0.5) in BGS	1
FLR-CMG-KA-100	6/18/2007	(0-0.5) in BGS	2
FLR-CMG-KA-101	6/18/2007	(0-0.5) in BGS	1.5
FLR-CMG-KA-102B	11/4/2010	(0-0.5) in BGS	4.1
FLR-CMG-KA-102D	11/4/2010	(0-0.5) in BGS	1.9
FLR-CMG-KA-102K	3/9/2011	(0-0.5) in BGS	4.2 J
FLR-CMG-KA-102L	3/9/2011	(0-0.5) in BGS	8.49 J
FLR-CMG-KA-104	6/18/2007	(0-0.5) in BGS	2
FLR-CMG-KA-106	6/18/2007	(0-0.5) in BGS	6
FLR-CMG-KA-107	6/18/2007	(0-0.5) in BGS	6
FLR-CMG-KA-110	6/18/2007	(0-0.5) in BGS	1.8
FLR-EAD-01-062	1/4/2007	(1-2) in BGS	2.5
FLR-MFG-BS-184	1/17/2007	(1-2) in BGS	1.4
FLR-MFG-MA-196	6/21/2007	(0-0.5) in BGS	1
FLR-SMG-01-037	1/4/2007	(1-2) in BGS	5
FLR-SMG-01-041	1/4/2007	(1-2) in BGS	7
FLR-YAR-SP-190	6/21/2007	(0-0.5) in BGS	2
KA-060B	2/4/2008	(0-0.5) in BGS	10
KA-060C	2/4/2008	(0-0.5) in BGS	2.59
KA-060F	1/15/2009	(0-0.5) in BGS	1.86
KA-060J	11/5/2010	(0-0.5) in BGS	2.06 J
KA-060O	9/29/2011	(0-0.5) in BGS	9.3
KA-060P	9/29/2011	(0-0.5) in BGS	9
KA-060Q	10/10/2011	(0-0.5) in BGS	9.6
KA-111A	2/4/2008	(0-0.5) in BGS	1.1
KA-111B	2/4/2008	(0-0.5) in BGS	8.7
WAL-CMG-FS-116	6/18/2007	(0-0.5) in BGS	2.5

Appendices

Appendix A
Risk Based Disposal Work Plan for PCB Impacted Material and Corresponding Approvals

CONESTOGA-ROVERS & ASSOCIATES

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Risk-Based Disposal Work Plan for PCB-Impacted Material (Former General Motors Saginaw Malleable Iron Facility)

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Saginaw, Michigan 48605 5073

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May 8, 2015 • 007878 • Report No. 23

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Section 1.0 Introduction

On behalf of Revitalizing Auto Communities Environmental Response Trust (RACER), Conestoga-Rovers & Associates, Inc. (CRA) have prepared this Risk-Based Disposal Work Plan for polychlorinated biphenyl (PCB) Impacted Material (Work Plan) found in the concrete floor slab and in soil beneath the concrete floor slab in the I27.7 Manhole Area of the former Saginaw Malleable Iron (SMI) Plant at the RACER Malleable Iron Industrial Land (Site) in Saginaw, Michigan. The Site has the United States Environmental Protection Agency (U.S. EPA) identification number MID 005 356 698.

This Work Plan was prepared in accordance with Title 40 of the Code of Federal Regulations, Part 761 (40 CFR 761) as a notification to the U.S. EPA of RACER's intent to implement a cleanup of the Site related PCB contamination under the risk based option set forth under 40 CFR 761.61(c). The proposed remedial activities include; removal and off-Site disposal of portions of the concrete floor slab with PCB concentrations greater than 10 milligrams per kilogram (mg/kg), removal and off-Site disposal of soil beneath the concrete floor slab in the I27.7 Manhole Area with PCB concentrations greater than 100 mg/kg to a pre-determined depth of 5 feet based on existing data or to the water table, whichever is shallower, bulkhead existing 10-inch sewer that transects the proposed I27.7 Manhole Area excavation, backfill of the soil excavation with clean backfill, replacement of all excavated concrete with 6 inches of concrete, placement of a 1-foot soil cover over the entire concrete floor slab, establish vegetation on the soil cover, and management of remaining concentrations by institutional controls.

The remainder of the Work Plan provides the following information:

- Nature of contamination including kinds of materials contaminated
- Procedures used to sample contaminated and adjacent areas and a site map showing PCB concentrations measured in all pre-cleanup characterization samples
- Location and extent of the PCB-impacted area
- Remedial plan for PCB impacts at the site including approach, schedule, and disposal facilities
- Written Certification as required by 40 CFR 761.61(a)(3)(E)

1.1 Site Location

The Site is located at 77 West Center Street in Saginaw, Michigan, consisting of approximately 150 acres along the Saginaw River and adjacent to the southern boundary of the City of

Saginaw. The former SMI Plant occupied an area of approximately 1 million square feet (23 acres), as shown on Figure 1.1.

1.2 Site History

In 1907 General Motors Corporation (GMC) initiated manufacturing operations consisting of casting and heat treating iron. The SMI Plant had historically used PCBs and PCB items in several applications including transformers, capacitors, switch gear, hydraulic systems, kiln seals, and fluorescent light ballasts. Releases of PCBs to the concrete occurred during those standard Plant operations.

Decommissioning and demolition of the SMI Plant was initiated in 2006 and was completed in December 2010. The concrete floor slab is all that remains following the demolition activities.

The Site is currently owned by RACER Properties LLC and operated by RACER. RACER was established and assumed the rights, title, and interest of Motors Liquidation Company in and to the Property pursuant to an Environmental Response Trust Consent Decree and Settlement Agreement (Settlement Agreement) entered by the U.S. Bankruptcy Court for the Southern District of New York on March 29, 2011, in the case of In re Motors Liquidation Company et al., Debtors, Case No. 09-50026 (REG), among the Debtors, the United States of America, certain states including the State of Michigan, the Saint Regis Mohawk Tribe, and EPLET, LLC, (not individually but solely in its representative capacity as Administrative Trustee of the Trust). RACER's objective is to implement remediation activities and position for redevelopment properties owned by the former GMC before its 2009 bankruptcy and not included in the bankruptcy sale to General Motors LLC.

1.3 Project Overview

The Site is currently the subject of a Consent Judgment executed between the Michigan Department of Environmental Quality (MDEQ), the Michigan Attorney General's (MAG's) Office, GMC, and Waste Management Inc. (WMI), and entered by the State of Michigan Circuit Court for Saginaw County on March 16, 1998, Case No. 98-22686-CE-2 (Consent Judgment). The nature and extent of environmental impacts at the Site have been evaluated through multiple investigations and is summarized in the Remedial Investigation (RI) Report (BBL, 2000), which was approved by MDEQ on July 5, 2001.

Following the approval of the RI report a Feasibility Study, including Human Health Evaluation Report and Ecological Risk Assessment Report (BBL, 2003) was completed and approved by MDEQ on November 18, 2003. In 2008 a Remedial Action Plan (RAP) (Arcadis) was completed and approved with conditions by MDEQ on February 27, 2009.

The following is a list of areas previously investigated with remedial actions that are completed or on-going at the Site:

- LNAPL Assessment and Remediation Area (on-going)
- Quench Pit Area (on-going)
- Former Underground Storage Tank (UST) #7 Area (completed)
- I27.7 Manhole Area (completed and on-going)
- Melting Department Area (completed)
- Previous Metal Feedstock Area (completed)
- Former CTC Parking Lot East of Plant (completed)
- Parking Lot North of Buffer Basin (completed)
- Former Railyard Area (completed)
- Queen Street Dump Area (completed)
- Saginaw River Boundary (completed)
- Type III Landfills (completed)
- Sewers (completed)

1.4 Site Sources and Characterization

The following section presents previous investigations and sample results related to PCBs in the concrete floor slab and in soil beneath the concrete floor slab.

1.4.1 Melting Department Area

Historical uses of PCBs in the former Melting Department Area portion of the SMI Plant included but are not limited to hydraulic oils, capacitors, and transformers. PCB use in the former Melting Department Area for the operation of induction and melting furnaces spanned over 5 years until PCB-containing hydraulic oil was replaced with non-PCB hydraulic oil in the early to mid-1970s. Figure 1.1 presents the location of the Former Melting Department Area.

GMC (previous owner) conducted a PCB investigation and remediation in the Melting Department Area between 1993 and 1996. The investigation involved identifying the extent of PCBs with bulk and wipe samples collected in each electrical room associated with the five furnaces. It is important to note that a portion of the Melting Department Area was located in the former basement of the former SMI Plant. As a result of the investigation, in areas where PCB concentrations from the lower depth intervals (i.e., concrete adjacent to underlying soil)

posed a potential migration threat, PCBs were excavated (soil and concrete). The areas where no potential migration threat was identified or where the exposure was considered low due to limited accessibility, were cleaned (removed bulk solids from floor, washed walls, and floor with high pressure water and low foaming non-ionic liquid alkaline cleaner), rinsed, and encapsulated. Confirmatory wipe, core, and soil samples were collected between December 1995 and December 1996. In a portion of the basement PCBs in concrete were left in place because of the risk to the structural integrity of the building if the PCB-impacted concrete was removed. PCBs in concrete were left in place and the basement was backfilled to the elevation of the main floor to contain the area. There were five separate areas (numbered 1 through 5) within the Melting Department Area that were comprised of the following components: capacitor room, control room, generator room, transformer room, hydraulic room, buss tunnel to pit, pit, and hall. The majority of PCBs in concrete left in place were located in the basement level (buss tunnel, buss tunnel to pit, and pit) within areas one and two. Seven surficial wall samples exhibiting concentrations ranging from 12 to 500 mg/kg and seven surficial floor samples exhibiting concentrations ranging from 14 mg/kg to 1,700 mg/kg were left in place within an approximate area of 120 feet by 60 feet. In addition three main floor concrete samples in Area 1 were left in place exhibiting concentrations ranging from 11 to 18 mg/kg. Figure 1.2 presents PCB results of the surficial concrete samples above 10 mg/kg in the Melting Department Area, as well as, the location of soil/concrete left in place with concentrations of PCBs above 10 mg/kg in the basement area of the Melting Department Area.

As part of the Melting Department Area remediation, hydraulic room #2 was investigated and found to be impacted with PCBs in concrete and soil. The concrete floor was removed and replaced and soil was removed to a depth of 5 feet and replaced with clean fill. Two verification samples were collected following the concrete and soil removal. One of the two verification results collected at a depth of 5 feet was above 10 mg/kg at 41 mg/kg (S1188). See Figure 1.3 for the location of soil verification sample S1188.

A report summarizing the work completed in the Melting Department Area entitled, "Melting Department Area Investigation and Remediation Report" was submitted to the MDEQ and U.S. EPA in April 1997.

1.4.2 I27.7 Manhole Area

In 1971, a transformer leaked oil in the I27.7 Manhole Area when it was dropped during installation. The accident resulted in the loss of transformer oils onto the plant floor. Based on discussions with plant personnel who were present at that time, the oil collected in a small area of exposed soil around a column where no concrete was present. The exposed soil was covered with concrete in 1972.

Two concrete cores were completed in this area on October 23, 1997. The results of the concrete analysis were non-detect (0.33 mg/kg) with the exception of the bottom portion of one of the concrete cores which reported total PCBs at 1.9 mg/kg. One sample was collected from the soil beneath each concrete core. The soil samples had detectable levels of total PCBs of 5.7 and 540 mg/kg. These results are consistent with the available information indicating that the concrete was placed after the spill.

A total of five soil borings were completed on January 16, 1998 and an additional six borings were advanced on April 14 and 15, 1998, in the I27.7 Manhole Area to assist in delineating the extent of PCB-impacted soil. Soil borings were advanced to depths ranging from 6.5 feet below surface (FBS) to 15 FBS.

PCB impacts in soil were further delineated horizontally and vertically to 1 mg/kg in the I27.7 Manhole Area between October 2013 and June 2014 through completion of 52 borings. Soil borings were advanced from 3 to 16 FBS, with an approximate spacing of 10 feet.

The results of the historical and more recent soil sampling are presented on Figure 1.3.

1.4.3 Plant Related Activity Investigations

Concrete floor slab samples were collected and analyzed for PCBs in various locations at the Plant between 1998 and 2003 to provide adequate and relevant due care information prior to executing various Plant activities. Plant activities included installing, replacing, and moving machinery as a part of manufacturing operations. A total of 515 concrete samples were analyzed for PCBs between 1998 and 2003 representing 337 sample locations. The following summarized the results:

- >50 mg/kg PCBs – 23 samples results (maximum concentration 106 mg/kg)
- >10 mg/kg and ≤50 mg/kg – 21 samples results
- ≤10 mg/kg – 471 sample results including 182 non-detects

The results for the plant related activity investigations that had concentrations above 10 mg/kg PCBs are presented on Figure 1.2.

1.4.4 Demolition and Additional Delineation Investigations

Plant decommissioning and demolition activities were initiated in 2006 and completed in December 2010. A Facility Environmental Assessment (FEA) was conducted between December 2006 and January 2007 and identified PCBs in the concrete floor slab. The FEA

included sampling areas of environmental interest including stained concrete floors. An additional sampling event was conducted between June 12 and June 25, 2007 to further investigate the PCB detections from the FEA. Various media were sampled and analyzed for PCBs including samples from walls and floors.

Various iterations of concrete delineation were conducted between February 2008 and October 2013 as the scope for what concrete to be removed was evaluated. Twelve samples contained PCB concentrations greater than 50 mg/kg. Thirty-seven samples contained PCB concentrations greater than 10 mg/kg and less than or equal to 50 mg/kg. Two hundred and thirty-three samples contained concentrations less than or equal to 10 mg/kg, including three samples reported as non-detect.

The results for the FEA samples collected of the concrete floor and the additional concrete delineation samples with concentrations above 10 mg/kg PCBs are presented on Figure 1.2.

During demolition, all discharges to the City of Saginaw sewer line that crosses the property were bulkheaded to eliminate any potential discharge to the City sewer. A process is in place to bulkhead the City of Saginaw sewer line prior to the line coming onto the Site and again prior to the line leaving the Site. The isolation of this sewer is expected to be completed in the summer of 2015. Figure 1.4 presents an overall figure of the former SMI Plant sewers and the locations of the bulkheads that were installed.

1.4.5 Investigation Summary

In summary, PCB concentrations in concrete greater than 50 mg/kg were reported in 35 samples. PCB concentrations in concrete greater than 10 mg/kg and less than or equal to 50 mg/kg were reported in 58 samples. Seven hundred and four samples contained concentrations of PCBs in concrete less than or equal to 10 mg/kg, including 185 samples reported as non-detect.

Figure 1.2 presents data boxes summarizing the locations where PCBs in concrete were reported greater than or equal to 10 mg/kg.

PCBs in soil in the I27.7 Manhole Area have been delineated to 1 mg/kg as presented on Figure 1.3.

The existing sampling results for the concrete floor slab and for the soil in the I27.7 Manhole Area were not collected in accordance with 40 Code of Federal Regulations (CFR) 761.265, however, sufficient data exists to complete the proposed remedial activities from a risk perspective. No further characterization of PCBs in concrete or soil is proposed for the purpose

of conducting the proposed remedial activities, with the exception of characterizing the concrete for disposal above the proposed soil excavation in the I27.7 Manhole Area as detailed in Section 2.1.6.1 and confirmation sampling for PCBs in soil from the floor of the I27.7 Manhole Area excavation at the depth the excavation will stop as detailed in Section 2.1.6.3.

1.5 Applicable Regulations

The proposed remedial activities involve excavation and off-Site disposal of PCB-impacted concrete and soil, as well as, import of fill material. This section describes regulations as they apply to the proposed remedial activities and include regulations related to waste characterization and cleanup.

1.5.1 Toxic Substances Control Act Evaluation

Based on the information presented in Section 1.2, the dates which PCBs were released onto the concrete floor slab during standard operations at the Plant are unknown and according to 40 CFR 761.50(b)(3)(ii)(B) require disposal in accordance with 761.61.

Based on the information presented in Section 1.4, PCBs were released into soil in the I27.7 Manhole Area prior to April 18, 1978 and according to 40 CFR 761.50(b)(3)(i)(A) are presumed not to present an unreasonable risk of injury to health or the environment unless the U.S. EPA Regional Administrator makes a finding that that such a risk exists. PCBs are present at significant levels in soils in the I27.7 Manhole Area.

Based on review of the regulations including 40 CFR 761.50(b)(3)(i) and the age of the release to soil, the proposed remedial activities for soil may not need to comply with 40 CFR 761.61 (although the disposal of any waste material does) unless the U.S. EPA Regional Administrator makes a finding that an unreasonable risk exists. Regardless of whether the U.S. EPA Regional Administrator makes a finding that an unreasonable risk exists, the proposal is to excavate impacted soil with PCBs greater than 100 mg/kg in the I27.7 Manhole Area.

Any excavated soil or concrete material with pre-excavation PCB concentrations greater than 50 mg/kg will be disposed at a Toxic Substances Control Act (TSCA) permitted facility. The disposal facility for soils and concrete with PCB concentrations below 50 mg/kg is not required to be a TSCA permitted facility. The proposed disposal facilities are presented in Section 2.1.7.

The proposed remedial activities will address any risk posed by PCBs at the Site and will result in conditions that are protective of human health and the environment.

The baseline cleanup levels for the proposed remedial activities are two cleanup levels defined under 40 CFR 761.3 which state,

Low Occupancy - Any area where PCB remediation waste has been disposed of on-site and where occupancy for any individual not wearing dermal and respiratory protection for a calendar year is: …less than 335 hours (an average of 6.7 hours per week) for bulk PCB remediation waste.

High Occupancy – Any area where PCB remediation waste has been disposed of on-site and where occupancy for any individual not wearing dermal and respiratory protection for a calendar year is: 840 hours or more (an average of 16.8 hours or more per week) for non-porous surfaces and 335 hours or more (an average of 6.7 hours or more per week) for bulk PCB remediation waste.

The Low Occupancy Area clean-up standards are defined in 40 CFR 761.61(a)(4)(i)(B) as,

(1) The cleanup level for bulk PCB remediation waste in low occupancy areas is ≤25 ppm …
(2) Bulk PCB remediation wastes may remain at a cleanup site at concentrations >25 ppm and ≤50 ppm if the site is secured by a fence and marked with a sign including the ML mark.
(3) Bulk PCB remediation wastes may remain at a cleanup site at concentrations >25 ppm and ≤100 ppm if the site is covered with a cap meeting the requirements of paragraphs (a)(7) and (a)(8) of this section.

The High Occupancy Area clean-up standards are defined in 40 CFR 761.61(a)(4)(i)(A) as,

The cleanup level for bulk PCB remediation waste in high occupancy areas is ≤1 ppm without further conditions. High occupancy areas where bulk PCB remediation waste remains at concentrations >1ppm and ≤10 ppm shall be covered with a cap meeting the requirements of paragraphs (a)(7) and (a)(8) of this section.

1.6 Proposed End-Use

To identify the potential risks associated with the Site, the end-use must be contemplated to identify potential exposures. RACER plans to sell the property for non-residential use and passive recreational use is being considered.

1.7 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

Soil is proposed to be excavated in the I27.7 Manhole Area. As presented in Section 1.4.2, 52 borings were completed in the I27.7 Manhole Area to further delineate PCB impacts. Borings were advanced to a maximum of 15 FBS. In general, the borings identified that there was a layer of foundry sand underlain by a layer of clay.

1.8 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 FBS. 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 water.

Section 2.0 Proposed Remedial Activity

The proposed remedial activities include; removal and off-Site disposal of portions of the concrete floor slab with PCB concentrations greater than 10 mg/kg, removal and off-Site disposal of soil beneath the concrete floor slab in the I27.7 Manhole Area with PCB concentrations greater than 100 mg/kg to a pre-determined depth of 5 feet based on existing data or to the water table, whichever is shallower, bulkhead existing 10-inch sewer that transects the proposed I27.7 Manhole Area excavation, backfill of the soil excavation with clean backfill, replacement of all excavated concrete with 6 inches of concrete, placement of a 1-foot soil cover over the entire concrete floor slab, establish vegetation on the soil cover, and management of remaining concentrations by institutional controls.

2.1 Scope of Work

The following sections describe the activities related to on-Site work to be conducted under this Work Plan:

2.1.1 Prepare Health and Safety Plan
2.1.2 Contractor Procurement
2.1.3 Pre Mobilization Activities
2.1.4 Mobilization/Site Preparation

2.1.5 Concrete Floor Slab Removal Activities
2.1.6 I27.7 Manhole Area Soil and Concrete Removal Activities
2.1.7 Transportation and Off-Site Disposal
2.1.8 Cover
2.1.9 Housekeeping
2.1.10 Legal Survey/Deed Restrictions
2.1.11 Site Restoration and Demobilization
2.1.12 Reporting/Documentation Preparation

2.1.1 Prepare Health and Safety Plan

To ensure that all on-Site personnel are properly protected from potential exposure to Site-related constituents, a Site-specific Health and Safety Plan (HASP) will be prepared by the contractor. A Site health and safety officer will complete a hazard analysis for all activities. The hazard analysis will identify the potential hazards, evaluate the level of personal protective equipment that will be used during the remedial activities, and describe the personnel decontamination procedures required to control any potential personal exposures during implementation of this Work Plan.

The HASP will be prepared and implemented consistent with Occupational Safety and Health Administration (OSHA) 29 CFR 1910.120.

2.1.2 Contractor Procurement

A qualified, OSHA trained remedial contractor will be procured for the removal and disposal of the PCB-impacted material. The remedial contractor will be responsible for the construction and removal of all temporary facilities (including a decontamination area, staging area, and support trailers); PCB-impacted material removal, transportation, and disposal; backfilling; and Site restoration.

2.1.3 Pre-Mobilization Activities

Prior to mobilization, all areas in which removal activities are required will be marked based on previous sampling locations. In addition, applicable permits (i.e., erosion control, City of Saginaw Industrial sewer discharge permit, and flood plain) will be obtained and administration and sanitary facilities will be constructed prior to the work being initiated.

2.1.4 Mobilization/Site Preparation

Upon mobilization of the contractor to the Site, the contractor will prepare the Site by establishing security controls; designating the exclusion, contaminant reduction, and support

zones by installing a temporary orange safety fence or caution tape, with warning signs, as necessary; construction of a decontamination facility; and set-up of excavation water storage and treatment system.

2.1.4.1 Decontamination Facility

A decontamination pad will be constructed with a 20-millimeter plastic liner and plywood. It will be 20 feet by 30 feet wide and constructed to accommodate the largest piece of equipment (hydraulic excavator). The pad will be constructed by laying geotextile over an approved location at the Site and over temporary berms. Berms will be constructed with straw bales on the side and wood on the ends. The wood can be removed to allow equipment to move in and out. A sump will be constructed in the lowest part of the pad. The liner will be laid over the geotextile. Plywood will be used on top of the liner to prevent tracked equipment from damaging the liner.

When equipment is moved from areas with PCBs greater than 50 mg/kg areas with PCBs less than 50 mg/kg an additional steam pressure wash in accordance with TSCA decontamination procedures will occur. The steam pressure wash will be completed with equipment resting on plywood in the PCB area. The relatively small volume of wash water will be collected and added to the excavation water storage and treatment system.

When equipment needs to be removed from the Site or to handle clean soils, it will first be mechanically cleaned and scraped to remove all visible soil. Then, in the decontamination pad, the equipment will be pressure steam washed in accordance with TSCA decontamination procedures. The water collected will be managed in the on-Site water storage and treatment system.

2.1.4.2 Excavation Water Collection

The proposed work associated with removal of portions concrete slab will not involve storm water collection and treatment as every attempt will be made to schedule the work during a period of no rain. In the event there is a rainfall event, water that falls on areas where the soil beneath the concrete floor slab is exposed will be allowed to infiltrate. Once the soil is dry again, the replacement 6-inch concrete cover can be installed.

The proposed work associated with the removal of PCB-impacted soil in the I27.7 Manhole Area is to proceed to a predetermined depth of 5 feet or to the water table, whichever is shallowest. As the proposed remedial activities progresses to the removal of the TSCA impacted soils, a sump will be constructed in the excavation to allow for perched water or storm water to be pumped from the excavation and placed in storage. As further detailed in Section 2.1.6.2, once

the predetermined depth of 5 feet or water table is reached in the excavation, the excavation may extend deeper if water infiltrating into the excavation can be reasonably managed. As work progresses, it may be necessary to add or move the sump location for removal of water.

2.1.4.3 Water Storage and Treatment

Water removed from the excavation and decontamination areas will be pumped to one or more frac tank(s), which will be used to store water recovered from the excavation.

Water will either be treated through a temporary water treatment system for permitted discharge to the City sewer or containerized, characterized, and disposed of off Site. The temporary water treatment system will consist of a sand filter followed by a carbon vessel for polishing. The temporary treatment system will operate on gravity. Treated water will be collected in frac tank(s) and will be sampled in accordance with a City Industrial use sewer discharge permit to be obtained. Upon receipt of favorable results, treated water will be discharged to the City sewer, otherwise the water will be re-treated and re-tested until the water meets City permit discharge limits.

2.1.5 Concrete Floor Slab Removal Activities

2.1.5.1 Additional Concrete Characterization

No further characterization of PCBs in concrete is proposed to define the removal of concrete floor slab, with the exception of characterization of the concrete floor slab above the I27.7 Manhole Area for purposes of proper disposal, as detailed in Section 2.1.6.1.

2.1.5.2 PCB-Impacted Concrete Removal/Excavation

For areas of the concrete floor slab that have PCBs concentrations in concrete greater than 10 mg/kg, the proposal is targeted removal of the concrete floor slab. PCBs in the concrete floor slab have been horizontally delineated to 10 mg/kg. Figures 2.1, 2.2, 2.3, and 2.4 present the areas of proposed concrete floor slab removal. Areas of the concrete floor slab on the figures highlighted in magenta will be excavated and disposed of as TSCA (>50 parts mg/kg PCBs) waste and areas of the concrete floor slab highlighted in cyan will be excavated and disposed of as non-TSCA (<50 mg/kg PCBs) waste. The limits of each excavation will be marked in the field prior to excavation (see Section 2.1.3). No verification sampling is proposed since the removal limits were determined using the nearest samples, which are closely spaced (approximately 10 to 20 feet apart), reporting below 50 mg/kg or 10 mg/kg, as applicable. The entire thickness of concrete floor slab for each of the areas of concrete highlighted on Figures 2.1, 2.2, 2.3, and 2.4 will be disposed of.

Excavated concrete and soil will be transferred directly into haul trucks or roll off boxes that will be lined with polyethylene sheeting. The polyethylene sheeting will also be draped over the side of the roll off box/haul truck to prevent contact with the soil during transfer from the excavation.

2.1.5.3 Restoration

Areas where concrete will be excavated will be restored with 6 inches of concrete.

2.1.6 I27.7 Manhole Area Soil and Concrete Removal Activities

2.1.6.1 Additional Soil and Concrete Characterization

No further characterization of PCBs in soil is proposed to define the removal of soil in the I27.7 Manhole Area.

Characterization of the concrete floor slab above the proposed I27.7 Manhole Area is required for disposal purposes. As identified in Section 1.4.2, concrete samples were previously collected in 1997 in the I27.7 Manhole Area which reported PCBs less than 10 mg/kg. These results are consistent with the available information indicating that the concrete was placed after the spill. To confirm previous results, one concrete sample is proposed to characterize approximately 80 tons of concrete for disposal. The concrete sample will be analyzed for PCBs, TCLP Metals, and TCLP VOCs as required by the disposal facility. The location of the proposed core is biased to the highest concentration of PCBs found in soil most recently at borehole BH16-13. Additional step-out concrete cores will be completed at the locations identified on Figure 2.5 and submitted for analysis of PCBs on hold pending the results of the initial sample. If the initial sample reports PCBs greater than 10 mg/kg PCBs the additional step-out concrete cores will be analyzed. Based on the concrete floor slab sample results, the concrete will be disposed of at one of the disposal facilities identified in Section 2.1.7.

2.1.6.2 PCB-Impacted Soil Removal

For the I27.7 Manhole Area, the proposal is to remove soil with PCB impacts greater than 100 mg/kg. PCBs in soil have been horizontally and vertically delineated to 1 mg/kg in the I27.7 Manhole Area. Prior to initiating the removal of PCB-impacted soil, the concrete slab above the PCB-impacted soil will be characterized as detailed in Section 2.1.6.1.
Figure 2.5 presents the areas of proposed soil removal. The excavation of soil will be completed to a predetermined depth of 5 feet or until the water table, whichever is shallower. The excavation may extend deeper if water infiltrating into the excavation can be reasonably managed. Areas on the figure highlighted in magenta will be excavated and disposed of as TSCA (>50 mg/kg PCBs) waste. The proposed excavation of PCB-impacted soil is all expected to

be disposed of as TSCA waste. The limits of each excavation will be marked in the field prior to excavation (see Section 2.1.3).

Excavated concrete and soil will be transferred directly into haul trucks or roll off boxes that will be lined with polyethylene sheeting. The polyethylene sheeting will also be draped over the side of the roll off box/haul truck to prevent contact with the soil during transfer from the excavation.

2.1.6.3 Excavation Bottom Confirmation Soil Sampling

Confirmation sampling for PCBs in soil is proposed from the bottom of the I27.7 Manhole Area excavation at the depth the excavation is terminated. The purpose of this confirmation soil sampling is to complement the existing I27.7 Manhole Area soil boring investigation results to document the concentrations of PCBs that will remain following the excavation. The soil will be sampled in accordance with 40 CFR 761.265 and composited in accordance with 40 CFR 761.289. Figure 2.5 presents the proposed confirmation sampling for the floor of the I27.7 Manhole Area excavation.

2.1.6.4 Sewer Bulkhead

The 10-inch sewer that transects the proposed I27.7 Manhole Area excavation will be bulkheaded in accordance with the City of Saginaw recommended approach in order to reduce the potential for PCB-impacted soil to migrate. The location of the bulkhead is identified on Figure 2.5. It is noted that the sewer line into which the 10-inch sewer discharges approximately 250 feet downgradient was bulkheaded as part of the decommissioning and demolition activities.

2.1.6.5 Backfilling and Compaction

Prior to backfilling, a demarcation fabric will be placed at the bottom of the excavation to separate the impacted material and clean fill. The bottom and sides of the I27.7 Manhole Area excavation will be surveyed to document the limits of excavations. The I27.7 Manhole Area excavation will be backfilled with acceptable material obtained from on Site or a clean, inert fill obtained from off Site, and 6 inches of concrete at the ground surface. As the fill is placed into the excavation, a dozer or excavator will spread the fill in approximate 1-foot lifts and the fill will be compacted by a roller or other suitable compactor to match adjacent material.

A possible source of on-Site fill is the remaining sand from the buffer basin which was decommissioned along with the Plant between 2007 and 2010. The source of the clean fill is clay from the RACER owned Saginaw Nodular Industrial Land in Saginaw, Michigan. The proposed fill is designated as clean since the clay pile located on the Saginaw Nodular Industrial

Land was created by excavating native clay to construct the former GMC and now GM LLC Landfill (immediately north of the clay pile). If it is determined that using on-site material for fill is desirable, MDEQ will be provided with details regarding the material prior to use.

2.1.7 Transportation and Off-Site Disposal

Disposal will be required for three waste streams: PCB remediation waste containing PCBs greater than or equal to 50 mg/kg, PCB-impacted waste containing PCBs less than 50 mg/kg, and wastewater. PCB remediation waste will be disposed of in accordance with 40 CFR 761.61 PCB Remediation Waste.

PCB Remediation Waste Containing PCBs Greater Than or Equal to 50 mg/kg

This PCB remediation waste will include excavated concrete and soil containing PCBs at concentrations greater than or equal to 50 mg/kg. Prior to leaving the Site, the haul trucks and roll off boxes will be secured with tarps. Manifests will be prepared and will accompany the loads in accordance with 40 CFR 761 Subpart K PCB Waste Disposal Records and Reports.

The following disposal facility is proposed to be used to dispose of TSCA waste (PCBs greater than or equal to 50 mg/kg):

Wayne Disposal, Inc. Site #2 Landfill
49350 N. I-94 Service Drive, Belleville, MI 48111
EPA ID# MID 00072483

PCB-impacted Waste Containing PCBs Less Than 50 mg/kg

This PCB-impacted waste will include concrete containing PCBs at concentrations less than 50 mg/kg, non-liquid cleaning materials (e.g., rags), and personal protective equipment at any concentration generated during the implementation of the remedial activities. Prior to leaving the Site, the haul trucks and roll off boxes will be secured with tarps. The waste will be disposed of at a municipal landfill consistent with 40 CFR 761.61(a)(5)(v) Cleanup Wastes.

The following disposal facility is proposed to be used to dispose of non-TSCA waste (PCBs less than 50 mg/kg):

Peoples Landfill – Birch Run
4143 Rathburn Road, Birch Run, MI 48415
Permit No. 38-3406998

Wastewater

Water will be generated during decontamination and soil excavation activities. The water will be containerized in frac tank(s) and pending the volume of water generated, will either be treated as specified in Section 2.1.4.3, characterized, and discharged to the City sanitary sewer or characterized and disposed of off-Site at the following facility.

Venice Park
9356 Lennon Road, Lennon, MI 48449
EPA ID# MID 980701130

If a disposal facility is proposed for use other than the facilities listed above, details for the disposal facility will be provided to MDEQ and U.S. EPA for review and approval.

2.1.8 Soil Cover

The intent of constructing the cover is to provide a barrier from contact with the remaining PCBs in the concrete floor slab and precipitation from directly falling on the slab. The cover will also allow a future owner to more readily convert any portion of the slab (currently to be restricted to low occupancy) with PCB impacts less than 10 mg/kg to high occupancy use. The future owner could maintain the existing cover and/or install and maintain an alternate cover compliant with 40 CFR 761.61(a)(7 and 8).

A 1-foot soil cover consisting of 10 inches of acceptable fill and 2 inches of topsoil will be placed over the entire concrete floor slab. The proposed soil cover material (clay from the RACER Saginaw Nodular Industrial Land) was previously tested for permeability, sieve, liquid limit, and plasticity index parameters as specified in 40 CFR 761.61(a)(7). The results of the analysis were compared to the required limits specified in 40 CFR 761.75(b)(1)(ii) through (b)(1)(v) and summarized in Table 2.1, which indicated that most parameters met the limits. It is noted that other acceptable fill material, such as clean soils from elsewhere at the Site, may be used for the cover. MDEQ will be provided information for alternate cover material if clay from the Nodular site is not used.

The soil cover will be seeded in order to establish a vegetative cover.

2.1.9 Housekeeping

Good housekeeping practices including maintaining clean surfaces for access and haul routes and monitoring and maintenance of storm water controls will be completed daily, as needed. Trucks used for transport to disposal facilities will not be allowed in the exclusion zone, but will

be loaded adjacent to the exclusion zone. Workers will keep loading and work areas free of soil, mud and debris to avoid tracking of material. Water will be used to control dust.

2.1.10 Legal Survey/Deed Restrictions

A legal survey and description of the entire concrete floor slab, as well as sub-areas of the slab where impacts greater than 100 mg/kg remain in soil or concrete below the ground surface will be completed for the purpose of establishing deed restrictions in accordance with 40 CFR 761.61(a)(8). The deed restrictions will be completed in the form of a Declaration of Restrictive Covenant which will include the following:

- That the land has been used for PCB remediation waste disposal and is restricted to use as a low occupancy area [40 CFR 761.61(a)(8)(i)(A)(1)]
- The applicable cleanup levels left at the site inside the fence, and/or under the cap [40 CFR 761.61(a)(8) (i)(A)(3)]

Figure 2.6 presents the approximate areas where deed restrictions will be placed on the concrete slab.

2.1.11 Site Restoration and Demobilization

The contractor will remove any remaining temporary fencing, the decontamination pad, equipment, and other materials and supplies brought onto the Site for the remedial activities.

2.1.12 Reporting/Document Preparation

Upon the completion of the PCB-impacted material removal, a Summary Report will be prepared in general accordance with 40 CFR 761.61(a)(9) to present a summary of the remedial activities. The report will summarize the work completed, milestone dates, final survey information, a summary of field observations, quantities of materials removed and imported, and the certificates of disposal for the PCB Remediation Waste.

Section 3.0 PCB Remedial Activities Protective of Human Health and the Environment

3.1 Melting Department Area

For the Melting Department Area, a review of the locations with PCB concentrations remaining that are greater than 100 mg/kg was completed. The locations with PCBs remaining above 100 mg/kg are summarized below:

- Power Supply 2, specifically part of the Pit 2 and the buss tunnel to Pit 2 which are located in the former basement of the building 15 to 20 feet below the floor slab: C161A [1,700 mg/kg], C163C [130 mg/kg], C165A [710 mg/kg], C171A [350 mg/kg], C173A [230 mg/kg], C175A [500 mg/kg], C179B [1,400 mg/kg], and C179C [1,100 mg/kg]
- Power Supply 5, specifically part of the buss tunnel to Pit 5 which is located in the form basement of the building 15 to 20 feet below the floor slab: C191A (130 mg/kg)

The elevated PCB concentrations from these locations were addressed in the Melting Department Area Investigation and Remediation Report submitted to U.S. EPA. In April 1997, as a part of remediation, the basements in the Melting Department Area, which included the Pits and the buss tunnel to the Pits, were filled with flowable fill (approximately 20 feet thick) and capped with 6 inches of concrete. This remedy preserved the structural integrity of the building and by the floor encapsulation, effectively eliminated the workers contact with remaining PCBs. The Melting Department Area Investigation and Remediation Report summarized the work and was submitted to U.S. EPA in April 1997. At this time, the PCBs remaining at depth under the concrete slab do not pose an unacceptable risk and, therefore it is proposed to leave these PCBs in place.

3.2 Proposed Remedial Activities

Following the completion of the proposed remedial activities in the I27.7 Manhole Area (soil removal and restoration), PCB concentrations remaining in soil above 100 mg/kg will be covered by a thickness of clean fill yet to be determined, 6 inches of concrete, and an additional 1-foot of clean fill. In addition, deed restrictions in the form of a Declaration of Restrictive Covenant will be placed as specified in Section 2.1.10 to inform future owners that the Site was used for disposal of PCB remediation waste, is restricted to low occupancy use, and to identify the concentrations of PCBs that remain on Site. With the proposed remedial activities associated with the I27.7 Manhole Area (i.e., removal of impacted soil to the water table of 5 FBS, whichever is shallower, backfilling the excavation with clean fill, installing a 6-inch concrete surface over the backfill, and placing a 1-foot thick soil cover over the concrete), PCBs

remaining at depth under the concrete slab do not pose an unacceptable risk and, therefore, it is proposed to leave those PCBs in place.

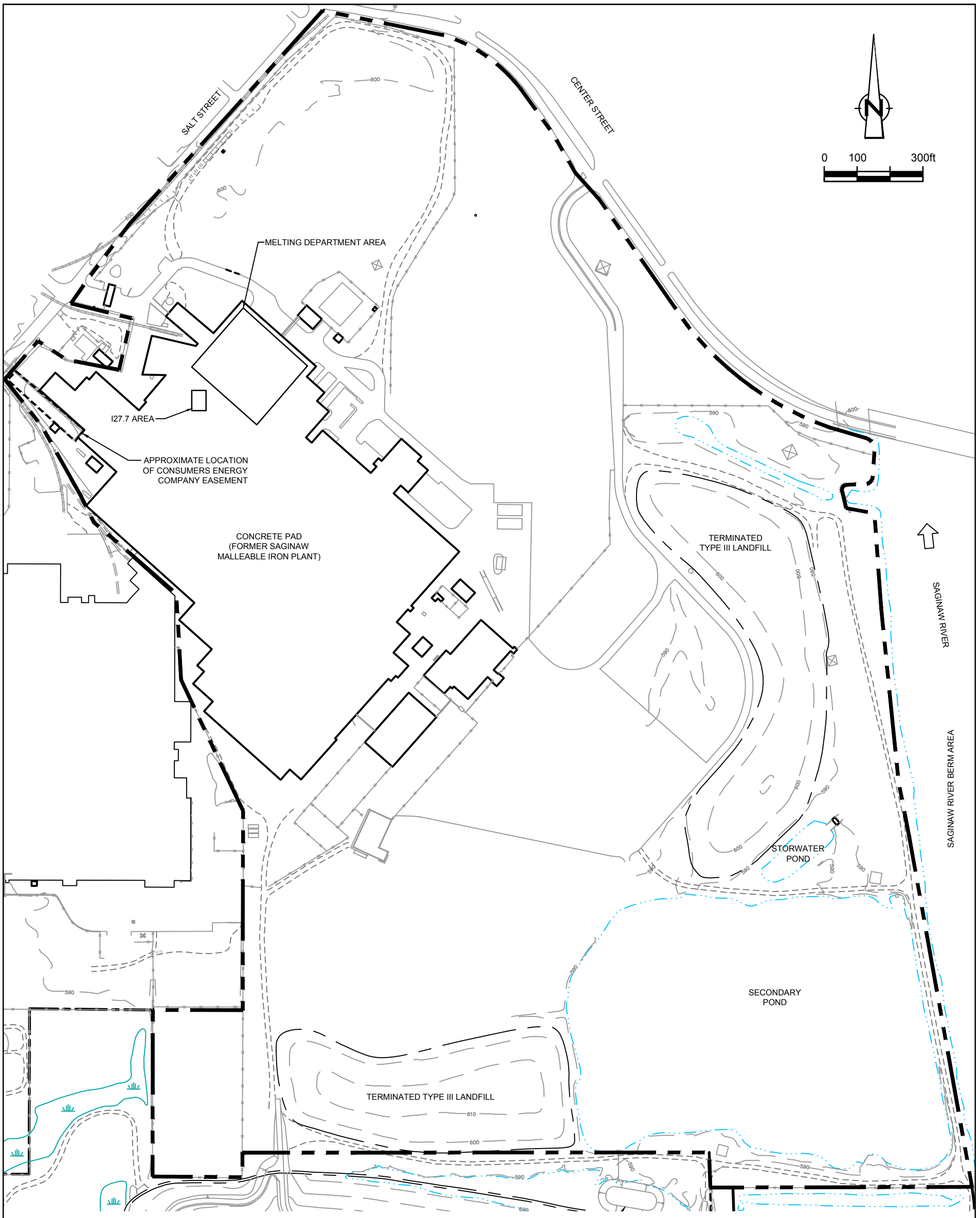
Following the completion of the proposed PCB-impacted concrete floor slab removal activities, PCB concentrations remaining in concrete will be below 10 mg/kg and will be covered with 1-foot of clean fill. In addition, a deed restriction will restrict use on the concrete floor slab to TSCA low occupancy. With the proposed activities associated with the concrete floor slab, PCBs remaining in the concrete floor slab do not pose an unacceptable risk.

Section 4.0 Certification

The certification statement required under 40 CFR 761.61(a)(3)(E) is provided in Appendix A.

Section 5.0 Schedule

Pending U.S. EPA approval of the proposed work, a contractor will be procured to complete the work and applicable permits will be obtained. The work will be initiated as soon as practicable.



LEGEND

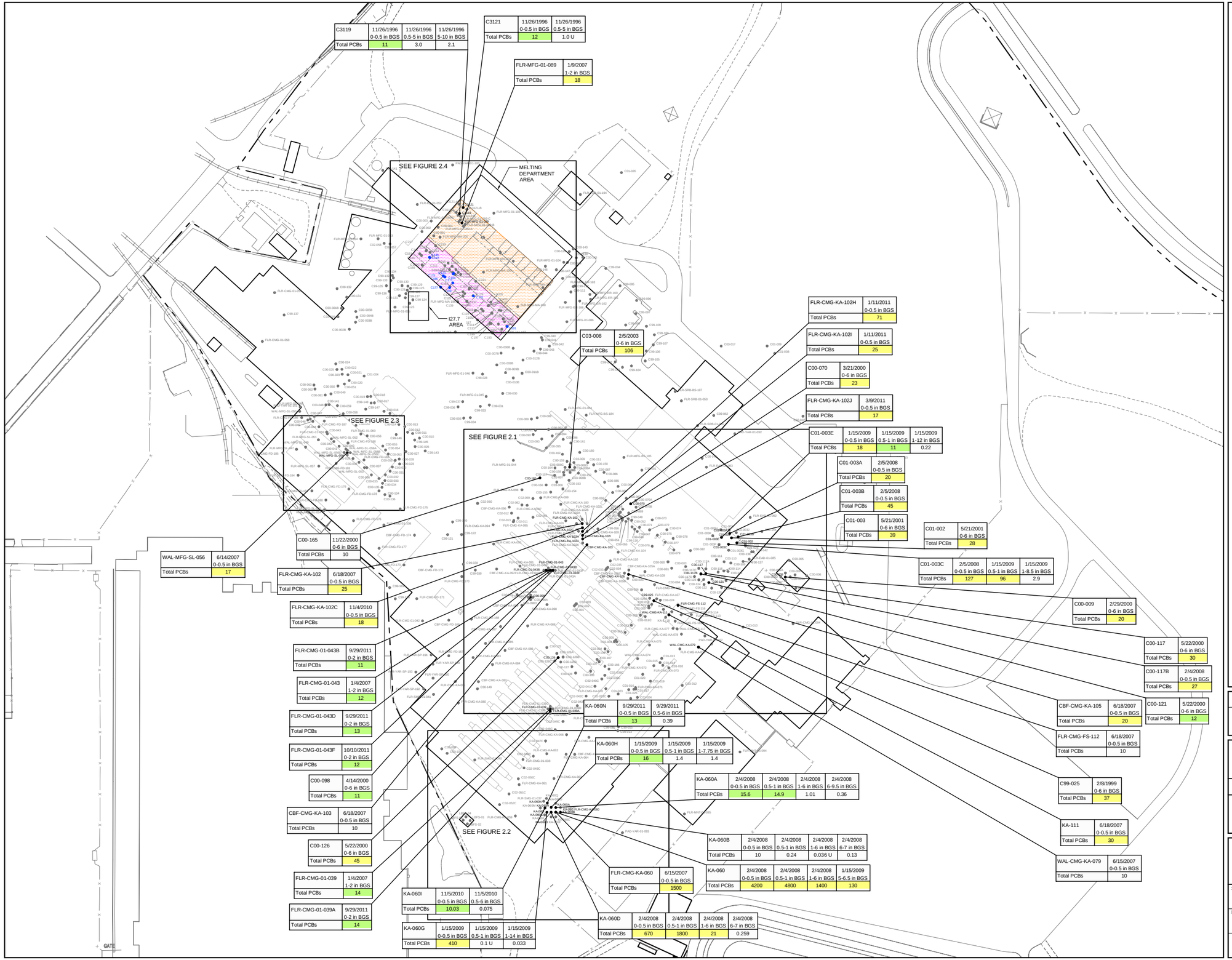
- RACER MALLEABLE IRON INDUSTRIAL LAND PROPERTY LINE (APPROX.)
- UNPAVED ROAD
- 620 GROUND SURFACE ELEVATION CONTOUR (10 FT INTERVAL)
- FENCE LINE

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

figure 1.1

SITE PLAN
RACER MALLEABLE IRON INDUSTRIAL LAND
Saginaw, Michigan

07878-T01(023)GN-WA001 MAR 25/2015



N

0 50 100ft

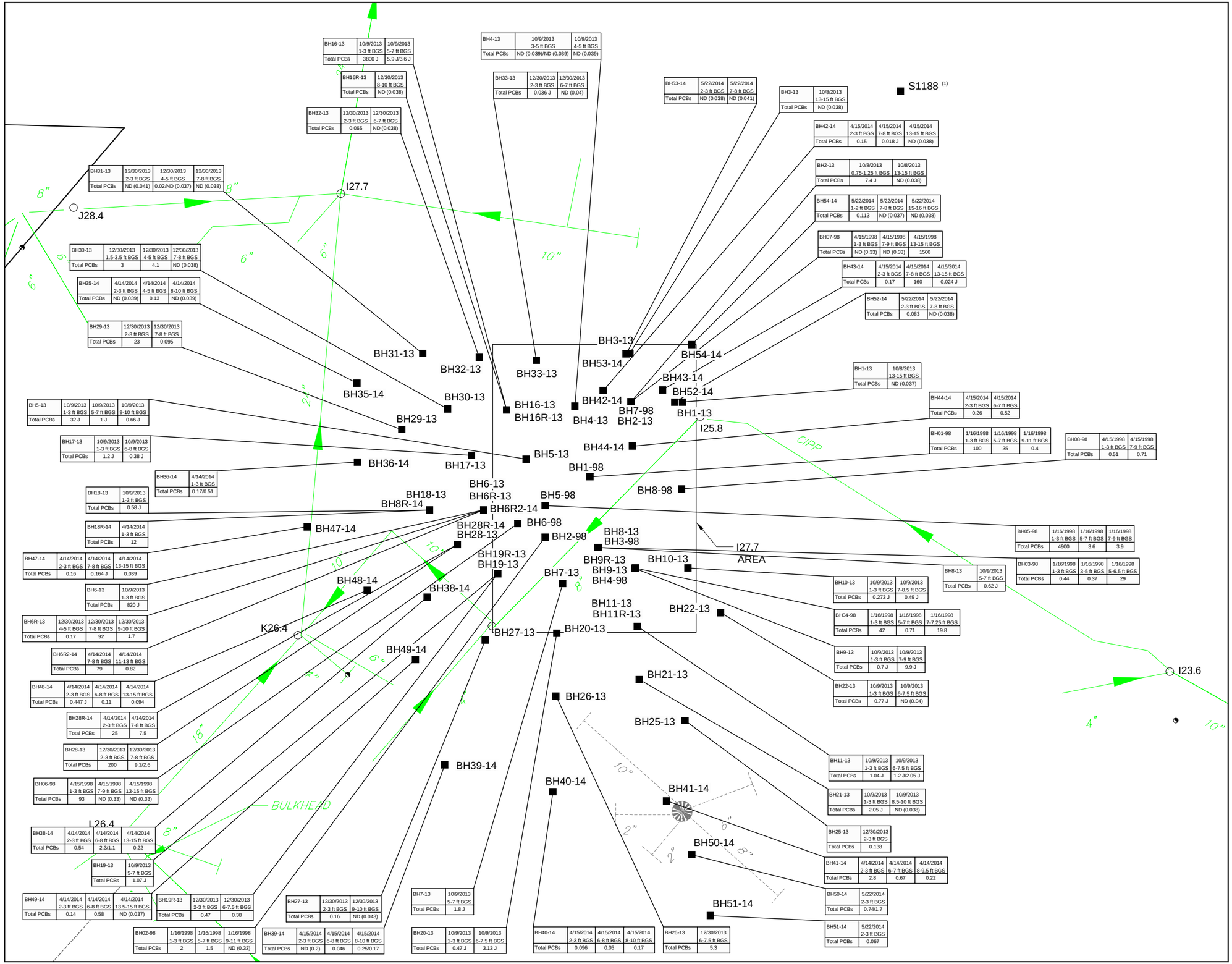
LEGEND

- RACER MALLEABLE IRON INDUSTRIAL LAND PROPERTY LINE (APPROX.)
- BUILDING OUTLINE
- FENCE LINE
- CONCRETE FLOOR SAMPLE LOCATION (≥10 mg/kg PCB)
- CONCRETE FLOOR/BASEMENT WALL SAMPLE LOCATION (<10 mg/kg PCB)
- DENOTES BASEMENT LEVEL SAMPLE LEFT IN PLACE THAT IS ABOVE 10 mg/kg PCBs
- PREVIOUSLY REMEDIATED
- BASEMENT AREA PREVIOUSLY REMEDIATED AS DESCRIBED IN THE MELTING DEPARTMENT AREA INVESTIGATION REPORT (APRIL 1997). BASEMENT AREAS WERE FILLED WITH FLOWABLE FILL AND CAPPED WITH 6" OF CONCRETE

C01-002 | 5/21/2001 (0-6) in BGS
Total PCBs | 28

- SAMPLE LOCATION
- SAMPLE DATE
- SAMPLE DEPTH BELOW GROUND SURFACE
- RESULT (mg/kg)
- PARAMETER

- >10 mg/kg PCB
- ≥16 mg/kg PCB



BH16-13	10/9/2013 1-3 ft BGS	10/9/2013 5-7 ft BGS
Total PCBs	3800 J	5.9 J/3.6 J

BH16R-13	12/30/2013 8-10 ft BGS
Total PCBs	ND (0.036)

BH32-13	12/30/2013 2-3 ft BGS	12/30/2013 6-7 ft BGS
Total PCBs	0.065	ND (0.038)

BH31-13	12/30/2013 2-3 ft BGS	12/30/2013 4-5 ft BGS	12/30/2013 7-8 ft BGS
Total PCBs	ND (0.041)	0.02/ND (0.037)	ND (0.038)

BH30-13	12/30/2013 1.5-3.5 ft BGS	12/30/2013 4-5 ft BGS	12/30/2013 7-8 ft BGS
Total PCBs	3	4.1	ND (0.038)

BH35-14	4/14/2014 2-3 ft BGS	4/14/2014 4-5 ft BGS	4/14/2014 8-10 ft BGS
Total PCBs	ND (0.039)	0.13	ND (0.039)

BH29-13	12/30/2013 2-3 ft BGS	12/30/2013 7-8 ft BGS
Total PCBs	23	0.095

BH5-13	10/9/2013 1-3 ft BGS	10/9/2013 5-7 ft BGS	10/9/2013 9-10 ft BGS
Total PCBs	32 J	1 J	0.66 J

BH17-13	10/9/2013 1-3 ft BGS	10/9/2013 6-8 ft BGS
Total PCBs	1.2 J	0.38 J

BH36-14	4/14/2014 1-3 ft BGS
Total PCBs	0.17/0.51

BH18-13	10/9/2013 1-3 ft BGS
Total PCBs	0.58 J

BH18R-14	4/14/2014 1-3 ft BGS
Total PCBs	12

BH47-14	4/14/2014 2-3 ft BGS	4/14/2014 7-8 ft BGS	4/14/2014 13-15 ft BGS
Total PCBs	0.16	0.164 J	0.039

BH6-13	10/9/2013 1-3 ft BGS
Total PCBs	820 J

BH6R-13	12/30/2013 4-5 ft BGS	12/30/2013 7-8 ft BGS	12/30/2013 9-10 ft BGS
Total PCBs	0.17	92	1.7

BH6R2-14	4/14/2014 7-8 ft BGS	4/14/2014 11-13 ft BGS
Total PCBs	79	0.82

BH48-14	4/14/2014 2-3 ft BGS	4/14/2014 6-8 ft BGS	4/14/2014 13-15 ft BGS
Total PCBs	0.447 J	0.11	0.094

BH28R-14	4/14/2014 2-3 ft BGS	4/14/2014 7-8 ft BGS
Total PCBs	25	7.5

BH28-13	12/30/2013 2-3 ft BGS	12/30/2013 7-8 ft BGS
Total PCBs	200	9.2/2.6

BH06-98	4/15/1998 1-3 ft BGS	4/15/1998 7-9 ft BGS	4/15/1998 13-15 ft BGS
Total PCBs	93	ND (0.33)	ND (0.33)

BH38-14	4/14/2014 2-3 ft BGS	4/14/2014 6-8 ft BGS	4/14/2014 13-15 ft BGS
Total PCBs	0.54	2.3/1.1	0.22

BH19-13	10/9/2013 5-7 ft BGS
Total PCBs	1.07 J

BH49-14	4/14/2014 2-3 ft BGS	4/14/2014 6-8 ft BGS	4/14/2014 13.5-15 ft BGS
Total PCBs	0.14	0.58	ND (0.037)

BH19R-13	12/30/2013 2-3 ft BGS	12/30/2013 6-7.5 ft BGS
Total PCBs	0.47	0.38

BH02-98	1/16/1998 1-3 ft BGS	1/16/1998 5-7 ft BGS	1/16/1998 9-11 ft BGS
Total PCBs	2	1.5	ND (0.33)

BH27-13	12/30/2013 2-3 ft BGS	12/30/2013 9-10 ft BGS
Total PCBs	0.16	ND (0.043)

BH39-14	4/15/2014 2-3 ft BGS	4/15/2014 6-8 ft BGS	4/15/2014 8-10 ft BGS
Total PCBs	ND (0.2)	0.046	0.25/0.17

BH7-13	10/9/2013 5-7 ft BGS
Total PCBs	1.8 J

BH20-13	10/9/2013 1-3 ft BGS	10/9/2013 6-7.5 ft BGS
Total PCBs	0.47 J	3.13 J

BH40-14	4/15/2014 2-3 ft BGS	4/15/2014 6-8 ft BGS	4/15/2014 8-10 ft BGS
Total PCBs	0.096	0.05	0.17

BH26-13	12/30/2013 6-7.5 ft BGS
Total PCBs	5.3

BH4-13	10/9/2013 3-5 ft BGS	10/9/2013 4-5 ft BGS
Total PCBs	ND (0.039)/ND (0.039)	ND (0.039)

BH33-13	12/30/2013 2-3 ft BGS	12/30/2013 6-7 ft BGS
Total PCBs	0.036 J	ND (0.04)

BH53-14	5/22/2014 2-3 ft BGS	5/22/2014 7-8 ft BGS
Total PCBs	ND (0.038)	ND (0.041)

BH3-13	10/8/2013 13-15 ft BGS
Total PCBs	ND (0.038)

S1188 (1)

BH42-14	4/15/2014 2-3 ft BGS	4/15/2014 7-8 ft BGS	4/15/2014 13-15 ft BGS
Total PCBs	0.15	0.018 J	ND (0.038)

BH2-13	10/8/2013 0.75-1.25 ft BGS	10/8/2013 13-15 ft BGS
Total PCBs	7.4 J	ND (0.038)

BH54-14	5/22/2014 1-2 ft BGS	5/22/2014 7-8 ft BGS	5/22/2014 15-16 ft BGS
Total PCBs	0.113	ND (0.037)	ND (0.038)

BH07-98	4/15/1998 1-3 ft BGS	4/15/1998 7-9 ft BGS	4/15/1998 13-15 ft BGS
Total PCBs	ND (0.33)	ND (0.33)	1500

BH43-14	4/15/2014 2-3 ft BGS	4/15/2014 7-8 ft BGS	4/15/2014 13-15 ft BGS
Total PCBs	0.17	160	0.024 J

BH52-14	5/22/2014 2-3 ft BGS	5/22/2014 7-8 ft BGS
Total PCBs	0.083	ND (0.038)

BH1-13	10/8/2013 13-15 ft BGS
Total PCBs	ND (0.037)

BH44-14	4/15/2014 2-3 ft BGS	4/15/2014 6-7 BGS
Total PCBs	0.26	0.52

BH01-98	1/16/1998 1-3 ft BGS	1/16/1998 5-7 ft BGS	1/16/1998 9-11 ft BGS
Total PCBs	100	35	0.4

BH08-98	4/15/1998 1-3 ft BGS	4/15/1998 7-9 ft BGS
Total PCBs	0.51	0.71

BH05-98	1/16/1998 1-3 ft BGS	1/16/1998 5-7 ft BGS	1/16/1998 7-9 ft BGS
Total PCBs	4900	3.6	3.9

BH03-98	1/16/1998 1-3 ft BGS	1/16/1998 3-5 ft BGS	1/16/1998 5-6.5 ft BGS
Total PCBs	0.44	0.37	29

BH8-13	10/9/2013 5-7 ft BGS
Total PCBs	0.62 J

BH10-13	10/9/2013 1-3 ft BGS	10/9/2013 7-8.5 ft BGS
Total PCBs	0.273 J	0.49 J

BH04-98	1/16/1998 1-3 ft BGS	1/16/1998 5-7 ft BGS	1/16/1998 7-7.25 ft BGS
Total PCBs	42	0.71	19.8

BH9-13	10/9/2013 1-3 ft BGS	10/9/2013 7-9 ft BGS
Total PCBs	0.7 J	9.9 J

BH22-13	10/9/2013 1-3 ft BGS	10/9/2013 6-7.5 ft BGS
Total PCBs	0.77 J	ND (0.04)

BH11-13	10/9/2013 1-3 ft BGS	10/9/2013 6-7.5 ft BGS
Total PCBs	1.04 J	1.2 J/2.05 J

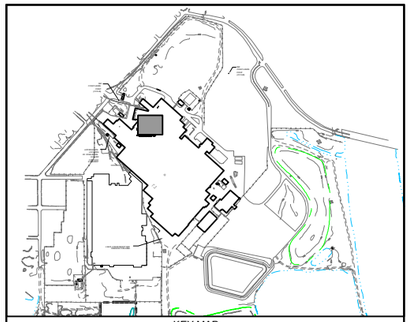
BH21-13	10/9/2013 1-3 ft BGS	10/9/2013 8.5-10 ft BGS
Total PCBs	2.05 J	ND (0.038)

BH25-13	12/30/2013 2-3 ft BGS
Total PCBs	0.138

BH41-14	4/14/2014 2-3 ft BGS	4/14/2014 6-7 ft BGS	4/14/2014 8-9.5 ft BGS
Total PCBs	2.8	0.67	0.22

BH50-14	5/22/2014 2-3 ft BGS
Total PCBs	0.74/1.7

BH51-14	5/22/2014 2-3 ft BGS
Total PCBs	0.067



KEY MAP

N

0 5 10ft

LEGEND

BH1-98 ■ SOIL BORING LOCATION

BRANCH SEWERS TO CITY - SANITARY, STORM AND PROCESS

ABANDONED SEWER LINES

(1) LOCATED IN HYDRAULIC ROOM #2 IN THE MELTING DEPARTMENT AREA

BH1-13	10/8/2013	SAMPLE LOCATION
	13-15 ft BGS	SAMPLE LOCATION
Total PCBs	ND (0.037)	SAMPLE DEPTH
		RESULT (mg/kg)
		PARAMETER

NOTE:
THIS DRAWING HAS BEEN PREPARED UTILIZING ALL AVAILABLE INFORMATION, HOWEVER UTILITY LOCATIONS SHOULD BE FIELD VERIFIED BEFORE COMPLETING ANY INTRUSIVE ACTIVITIES.

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE (RACER) MALLEABLE IRON INDUSTRIAL LAND

SAGINAW, MICHIGAN

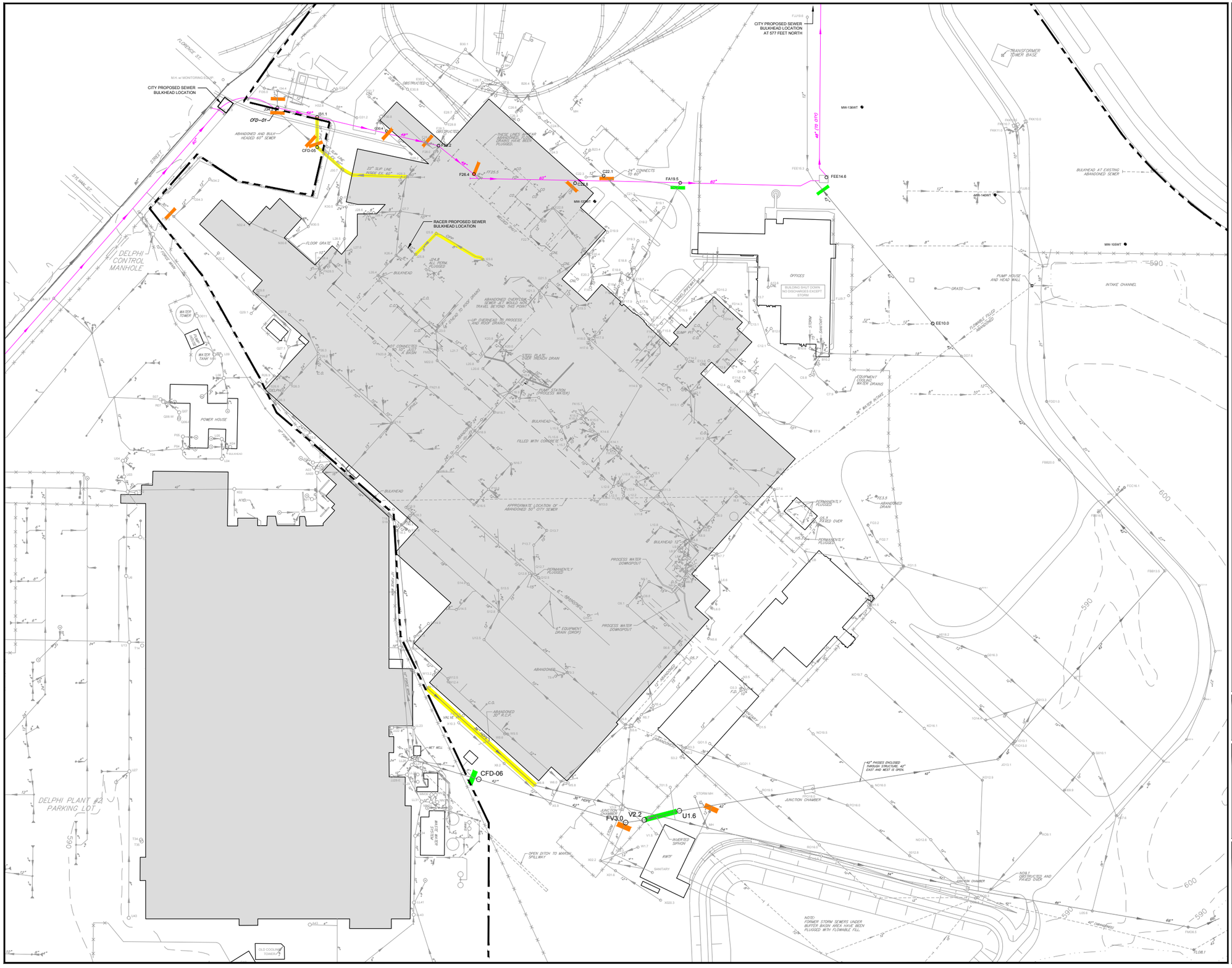
I27.7 MANHOLE AREA SOIL INVESTIGATIVE LOCATIONS

CONESTOGA-ROVERS & ASSOCIATES

Source Reference:

Project Manager:	Reviewed By:	Date:	
MRT	JEP	MARCH 2015	
Scale: 1:10	Project N°: 07878-T01	Report N°: 023	Drawing N°: figure 1.3

07878-T01(023)GN-WA003 MAR 18/2015



0 50 100ft

LEGEND

- RACER MALLEABLE IRON INDUSTRIAL LAND PROPERTY LINE (APPROX.)
- BUILDING OUTLINE
- FENCE LINE
- MAIN SEWER TO CITY - SANITARY, STORM AND PROCESS
- INTERNAL SITE SEWER
- ABANDONED SEWER LINE
- OVERHEAD SEWER LINE
- BULKHEAD/ABANDONMENT COMPLETED BY CRA
- BULKHEAD COMPLETED BY NORTH AMERICA DISMANTLING CORPORATION
- SEWER SLEEVE INSTALLED (1998)
- CONCRETE FLOOR SLAB
- GROUND SURFACE ELEVATION CONTOUR (10 FT INTERVAL)
- MANHOLE
- CATCHBASIN
- CIPP CURE IN PLACE PIPE
- MW-105WT MONITORING WELL LOCATION

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE (RACER) MALLEABLE IRON INDUSTRIAL LAND

SAGINAW, MICHIGAN

SEWER BULKHEAD LOCATIONS

CONESTOGA-ROVERS & ASSOCIATES

Source Reference:

Project Manager:	Reviewed By:	Date:	
MRT	JEP	MARCH 2015	
Scale: 1:100	Project N°: 07878-T01	Report N°: 023	Drawing N°: figure 1.4

07878-T01(023)GN-WA010 MAR 24/2015

C00-165	11/22/2000
	0-6 in BGS
Total PCBs	10

C03-008	2/5/2003
	0-6 in BGS
Total PCBs	106

C00-070	3/21/2000
	0-6 in BGS
Total PCBs	23

C01-003E	1/15/2009	1/15/2009	1/15/2009
	0-0.5 in BGS	0.5-1 in BGS	1-12 in BGS
Total PCBs	18	11	0.22

C01-003	5/21/2001
	0-6 in BGS
Total PCBs	39

C01-003A	2/5/2008
	0-0.5 in BGS
Total PCBs	20

C01-003B	2/5/2008
	0-0.5 in BGS
Total PCBs	45

C01-002	5/21/2001
	0-6 in BGS
Total PCBs	28

FLR-CMG-KA-102C	11/4/2010
	0-0.5 in BGS
Total PCBs	18

FLR-CMG-KA-102H	1/11/2011
	0-0.5 in BGS
Total PCBs	71

FLR-CMG-KA-102I	1/11/2011
	0-0.5 in BGS
Total PCBs	25

FLR-CMG-KA-102J	3/9/2011
	0-0.5 in BGS
Total PCBs	17

FLR-CMG-KA-102	6/18/2007
	0-0.5 in BGS
Total PCBs	25

C01-003C	2/5/2008	1/15/2009	1/15/2009
	0-0.5 in BGS	0.5-1 in BGS	1-8.5 in BGS
Total PCBs	127	96	2.9

CBF-CMG-KA-103	6/18/2007
	0-0.5 in BGS
Total PCBs	10

C00-117	5/22/2000
	0-6 in BGS
Total PCBs	30

FLR-CMG-01-043B	9/29/2011
	0-2 in BGS
Total PCBs	11

FLR-CMG-01-043	1/4/2007
	1-2 in BGS
Total PCBs	12

FLR-CMG-01-043F	10/10/2011
	0-2 in BGS
Total PCBs	12

FLR-CMG-01-043D	9/29/2011
	0-2 in BGS
Total PCBs	13

C00-009	2/29/2000
	0-6 in BGS
Total PCBs	20

C00-098	4/14/2000
	0-6 in BGS
Total PCBs	11

C00-117B	2/4/2008
	0-0.5 in BGS
Total PCBs	27

C00-121	5/22/2000
	0-6 in BGS
Total PCBs	12

CBF-CMG-KA-105	6/18/2007
	0-0.5 in BGS
Total PCBs	20

FLR-CMG-FS-112	6/18/2007
	0-0.5 in BGS
Total PCBs	10

C99-025	2/8/1999
	0-6 in BGS
Total PCBs	37

KA-111	6/18/2007
	0-0.5 in BGS
Total PCBs	30

WAL-CMG-KA-079	6/15/2007
	0-0.5 in BGS
Total PCBs	10

C00-126	5/22/2000
	0-6 in BGS
Total PCBs	45

FLR-CMG-01-039	1/4/2007
	1-2 in BGS
Total PCBs	14

FLR-CMG-01-039A	9/29/2011
	0-2 in BGS
Total PCBs	14

0 10 30ft

LEGEND

- RACER MALLEABLE IRON INDUSTRIAL LAND PROPERTY LINE (APPROX.)
- BUILDING OUTLINE
- FENCE LINE
- CONCRETE FLOOR SAMPLE LOCATION (≥10 mg/kg PCB)
- CONCRETE FLOOR/BASEMENT WALL SAMPLE LOCATION (<10 mg/kg PCB)
- SAMPLE LOCATION
- SAMPLE DATE
- SAMPLE DEPTH BELOW GROUND SURFACE
- RESULT (mg/kg)
- PARAMETER
- >10 mg/kg PCB
- ≥16 mg/kg PCB
- PROPOSED EXCAVATION LIMITS
- CONCRETE SLAB TO BE REMOVED AND DISPOSED OF AS NON-TSCA WASTE
- CONCRETE SLAB TO BE REMOVED AND DISPOSED OF AS TSCA WASTE

C01-002	5/21/2001
	(0-6) in BGS
Total PCBs	28

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

REVITIALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE (RACER) MALLEABLE IRON INDUSTRIAL LAND

SAGINAW, MICHIGAN

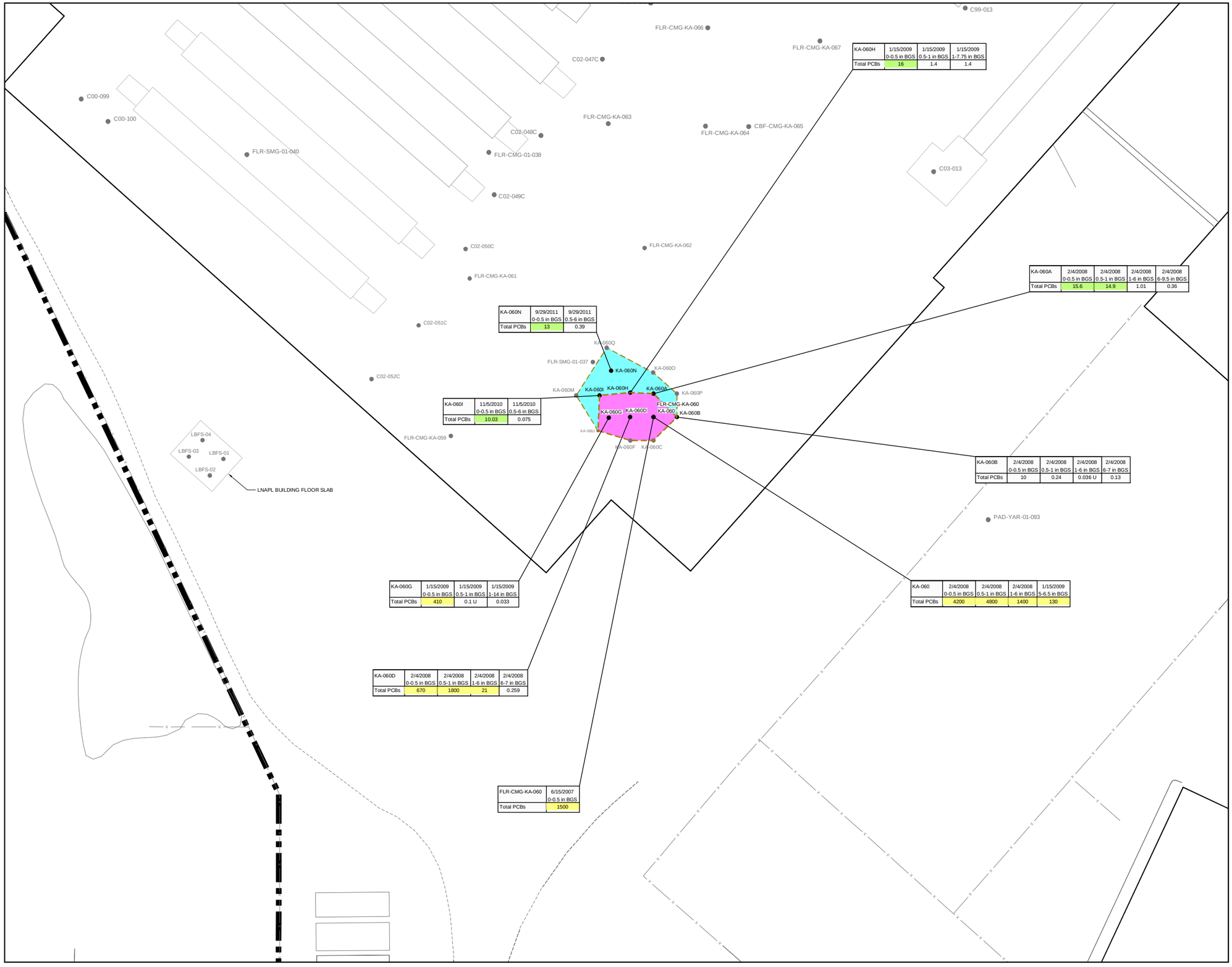
PROPOSED CONCRETE SLAB REMOVAL

CONESTOGA-ROVERS & ASSOCIATES

Source Reference:

Project Manager:	Reviewed By:	Date:	
MRT	JEP	MARCH 2015	
Scale: 1"=30'	Project N°: 07878-T01	Report N°: 023	Drawing N°: figure 2.1

07878-T01(023)GN-WA004 MAR 18/2015



KA-060H	1/15/2009 0-0.5 in BGS	1/15/2009 0.5-1 in BGS	1/15/2009 1-7.75 in BGS
Total PCBs	16	1.4	1.4

KA-060N	9/29/2011 0-0.5 in BGS	9/29/2011 0.5-6 in BGS
Total PCBs	13	0.39

KA-060A	2/4/2008 0-0.5 in BGS	2/4/2008 0.5-1 in BGS	2/4/2008 1-6 in BGS	2/4/2008 6-9.5 in BGS
Total PCBs	15.6	14.9	1.01	0.36

KA-060I	11/5/2010 0-0.5 in BGS	11/5/2010 0.5-6 in BGS
Total PCBs	10.03	0.075

KA-060B	2/4/2008 0-0.5 in BGS	2/4/2008 0.5-1 in BGS	2/4/2008 1-6 in BGS	2/4/2008 6-7 in BGS
Total PCBs	10	0.24	0.036 U	0.13

KA-060G	1/15/2009 0-0.5 in BGS	1/15/2009 0.5-1 in BGS	1/15/2009 1-14 in BGS
Total PCBs	410	0.1 U	0.033

KA-060	2/4/2008 0-0.5 in BGS	2/4/2008 0.5-1 in BGS	2/4/2008 1-6 in BGS	1/15/2009 5-6.5 in BGS
Total PCBs	4200	4800	1400	130

KA-060D	2/4/2008 0-0.5 in BGS	2/4/2008 0.5-1 in BGS	2/4/2008 1-6 in BGS	2/4/2008 6-7 in BGS
Total PCBs	670	1800	21	0.259

FLR-CMG-KA-060	6/15/2007 0-0.5 in BGS
Total PCBs	1500

0 10 20ft

LEGEND

- RACER MALLEABLE IRON INDUSTRIAL LAND PROPERTY LINE (APPROX.)
- BUILDING OUTLINE
- FENCE LINE
- CONCRETE FLOOR SAMPLE LOCATION (≥10 mg/kg PCB)
- CONCRETE FLOOR/BASEMENT WALL SAMPLE LOCATION (<10 mg/kg PCB)

C01-002	5/21/2001
	(0-6) in BGS
Total PCBs	28

- SAMPLE LOCATION
- SAMPLE DATE
- SAMPLE DEPTH BELOW GROUND SURFACE
- RESULT (mg/kg)
- PARAMETER
- >10 mg/kg PCB
- ≥16 mg/kg PCB
- PROPOSED EXCAVATION LIMITS
- CONCRETE SLAB TO BE REMOVED AND DISPOSED OF AS NON-TSCA WASTE
- CONCRETE SLAB TO BE REMOVED AND DISPOSED OF AS TSCA WASTE

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

REVITIALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE (RACER) MALLEABLE IRON INDUSTRIAL LAND

SAGINAW, MICHIGAN

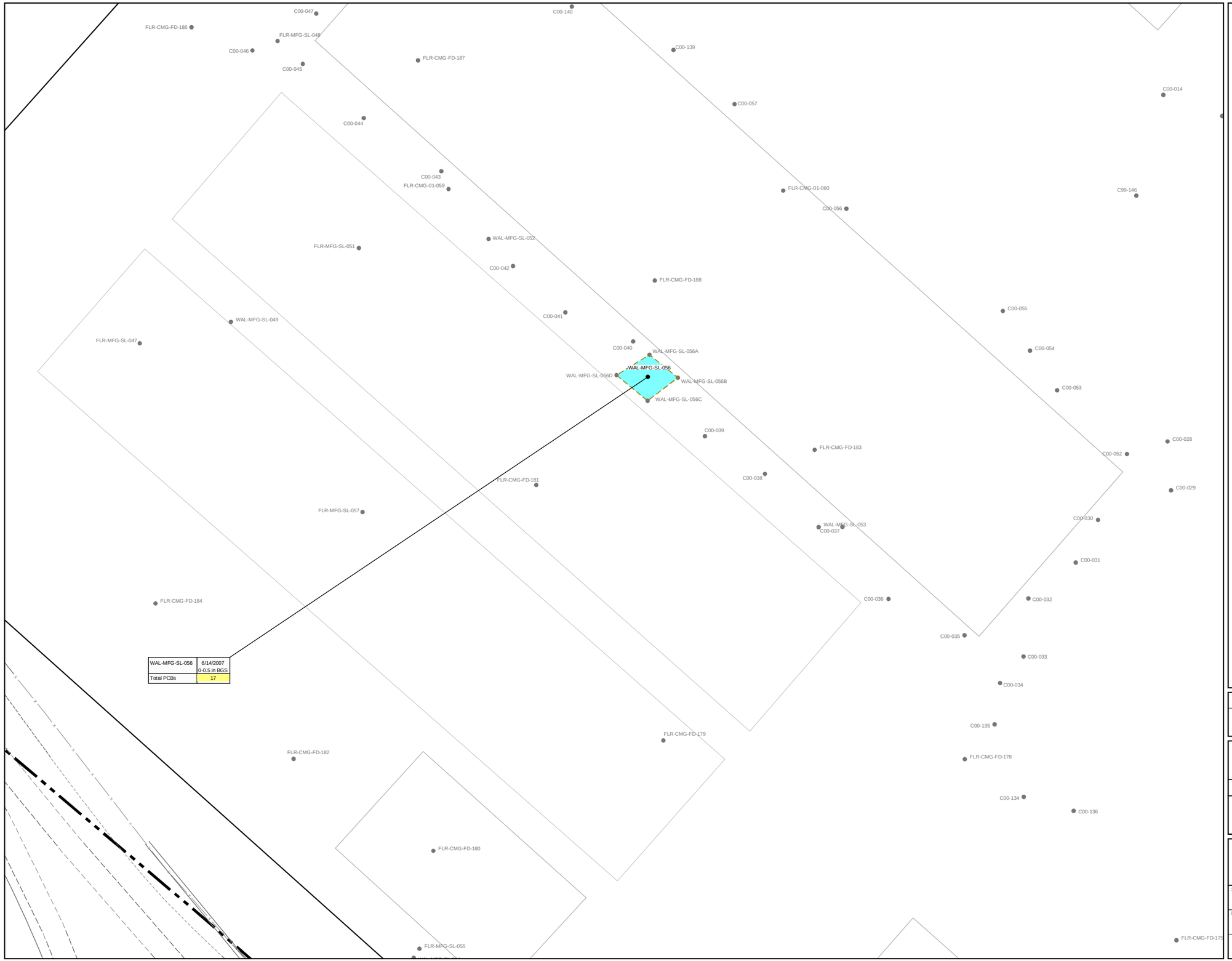
PROPOSED CONCRETE SLAB REMOVAL

CONESTOGA-ROVERS & ASSOCIATES

Source Reference:

Project Manager:	Reviewed By:	Date:	
MRT	JEP	MARCH 2015	
Scale: 1"=20'	Project N°: 07878-T01	Report N°: 023	Drawing N°: figure 2.2

07878-T01(023)GN-WA005 MAR 18/2015



SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

REVITIALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE (RACER) MALLEABLE IRON INDUSTRIAL LAND

SAGINAW, MICHIGAN

PROPOSED CONCRETE SLAB REMOVAL

CONESTOGA-ROVERS & ASSOCIATES

Source Reference:

Project Manager:	Reviewed By:	Date:	
MRT	JEP	MARCH 2015	
Scale: 1"=10'	Project N°: 07878-T01	Report N°: 023	Drawing N°: figure 2.3

07878-T01(023)GN-WA006 MAR 18/2015

MELTING DEPARTMENT AREA

C3121	11/26/1996 0-0.5 in BGS	11/26/1996 0.5-5 in BGS
Total PCBs	12	1.0 U

C3119	11/26/1996 0-0.5 in BGS	11/26/1996 0.5-5 in BGS	11/26/1996 5-10 in BGS
Total PCBs	11	3.0	2.1

FLR-MFG-01-089	1/9/2007 1-2 in BGS
Total PCBs	18

I27.7 AREA

LEGEND

- RACER MALLEABLE IRON INDUSTRIAL LAND PROPERTY LINE (APPROX.)
- BUILDING OUTLINE
- FENCE LINE
- CONCRETE FLOOR SAMPLE LOCATION (≥10 mg/kg PCB)
- CONCRETE FLOOR/BASEMENT WALL SAMPLE LOCATION (<10 mg/kg PCB)
- DENOTES BASEMENT LEVEL SAMPLE LEFT IN PLACE THAT IS ABOVE 10 mg/kg PCBs
- PREVIOUSLY REMEDIATED
- BASEMENT AREA PREVIOUSLY REMEDIATED AS DESCRIBED IN THE MELTING DEPARTMENT AREA INVESTIGATION REPORT (APRIL 1997). BASEMENT AREAS WERE FILLED WITH FLOWABLE FILL AND CAPPED WITH 6" OF CONCRETE

C01-002	5/21/2001 (0-6) in BGS
Total PCBs	28

- SAMPLE LOCATION
- SAMPLE DATE
- SAMPLE DEPTH BELOW GROUND SURFACE
- RESULT (mg/kg)
- PARAMETER
- >10 mg/kg PCB
- ≥16 mg/kg PCB
- PROPOSED EXCAVATION LIMITS
- CONCRETE SLAB TO BE REMOVED AND DISPOSED OF AS NON-TSCA WASTE

0 10 20ft

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE (RACER) MALLEABLE IRON INDUSTRIAL LAND

SAGINAW, MICHIGAN

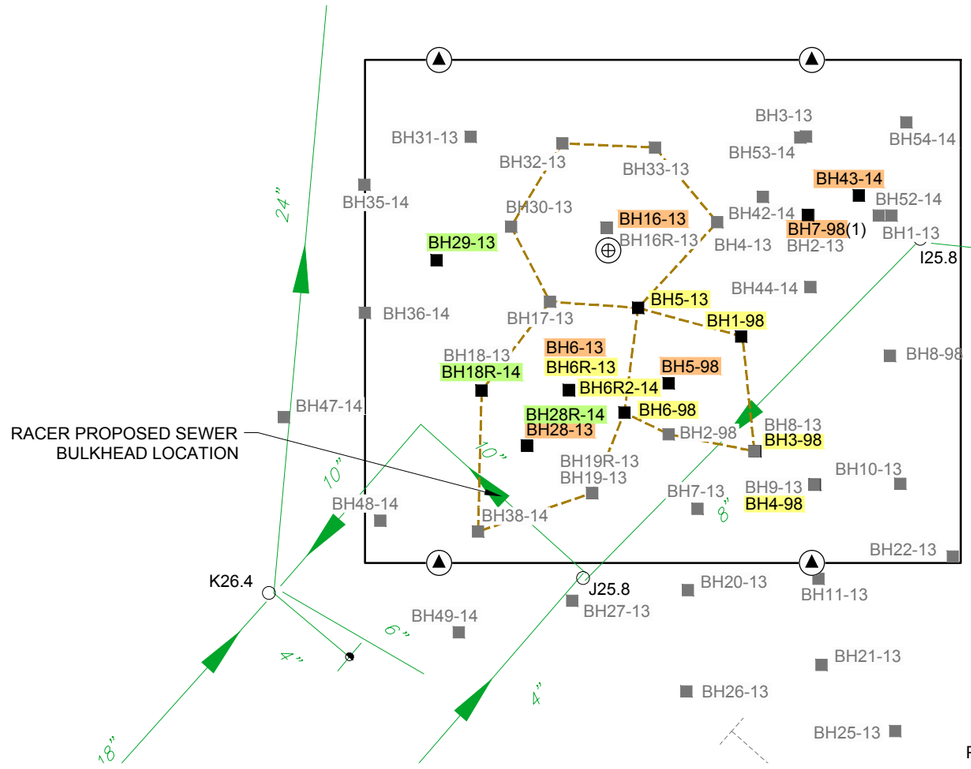
MELTING DEPARTMENT AREA PROPOSED CONCRETE SLAB REMOVAL

CONESTOGA-ROVERS & ASSOCIATES

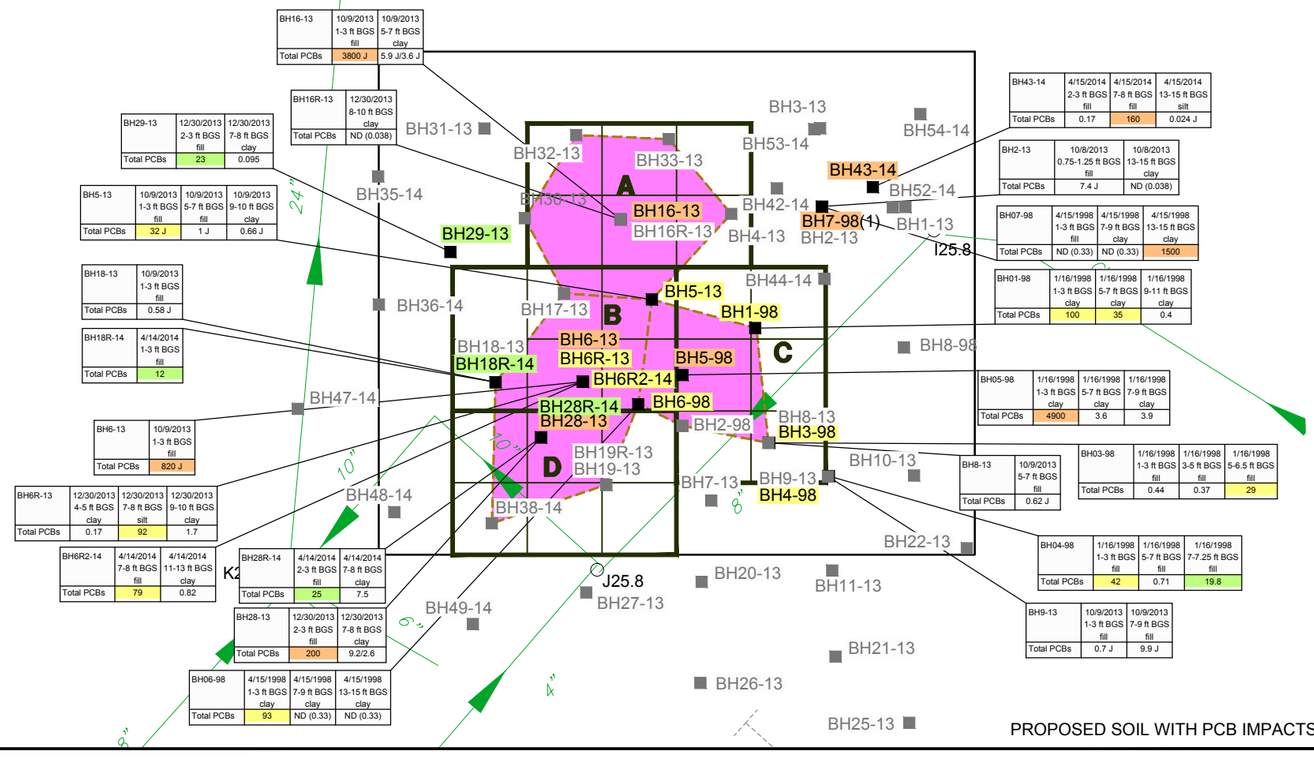
Source Reference:

Project Manager:	Reviewed By:	Date:	
MRT	JEP	MARCH 2015	
Scale: 1"=20'	Project N°: 07878-T01	Report N°: 023	Drawing N°: figure 2.4

07878-T01(023)GN-WA007 MAR 18/2015



PROPOSED CONCRETE FLOOR SLAB CHARACTERIZATION AND REMOVAL



BH16-13	10/9/2013 1-3 ft BGS fill	10/9/2013 5-7 ft BGS clay
Total PCBs	3800 J	5.9 J/3.6 J

BH16R-13	12/30/2013 8-10 ft BGS clay	
Total PCBs	ND (0.038)	

BH29-13	12/30/2013 2-3 ft BGS fill	12/30/2013 7-8 ft BGS clay	
Total PCBs	23	0.095	

BH5-13	10/9/2013 1-3 ft BGS fill	10/9/2013 5-7 ft BGS fill	10/9/2013 9-10 ft BGS clay	
Total PCBs	32 J	1 J	0.66 J	

BH18-13	10/9/2013 1-3 ft BGS fill	
Total PCBs	0.58 J	

BH18R-14	4/14/2014 1-3 ft BGS fill	
Total PCBs	12	

BH6-13	10/9/2013 1-3 ft BGS fill	
Total PCBs	820 J	

BH6R-13	12/30/2013 4-5 ft BGS clay	12/30/2013 7-8 ft BGS silt	12/30/2013 9-10 ft BGS clay	
Total PCBs	0.17	92	1.7	

BH6R2-14	4/14/2014 7-8 ft BGS fill	4/14/2014 11-13 ft BGS clay	
Total PCBs	79	0.82	

BH28R-14	4/14/2014 2-3 ft BGS fill	4/14/2014 7-8 ft BGS clay	
Total PCBs	25	7.5	

BH28-13	12/30/2013 2-3 ft BGS fill	12/30/2013 7-8 ft BGS clay	
Total PCBs	200	9.2/2.6	

BH06-98	4/15/1998 1-3 ft BGS clay	4/15/1998 7-9 ft BGS clay	4/15/1998 13-15 ft BGS clay
Total PCBs	93	ND (0.33)	ND (0.33)

BH43-14	4/15/2014 2-3 ft BGS fill	4/15/2014 7-8 ft BGS fill	4/15/2014 13-15 ft BGS silt
Total PCBs	0.17	160	0.024 J

BH2-13	10/8/2013 0.75-1.25 ft BGS fill	10/8/2013 13-15 ft BGS clay
Total PCBs	7.4 J	ND (0.038)

BH07-98	4/15/1998 1-3 ft BGS fill	4/15/1998 7-9 ft BGS clay	4/15/1998 13-15 ft BGS clay
Total PCBs	ND (0.33)	ND (0.33)	1500

BH01-98	1/16/1998 1-3 ft BGS clay	1/16/1998 5-7 ft BGS clay	1/16/1998 9-11 ft BGS clay
Total PCBs	100	35	0.4

BH05-98	1/16/1998 1-3 ft BGS clay	1/16/1998 5-7 ft BGS clay	1/16/1998 7-9 ft BGS clay
Total PCBs	4900	3.6	3.9

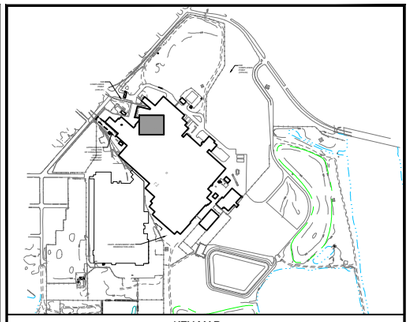
BH8-13	10/9/2013 5-7 ft BGS fill	
Total PCBs	0.62 J	

BH03-98	1/16/1998 1-3 ft BGS fill	1/16/1998 3-5 ft BGS fill	1/16/1998 5-6.5 ft BGS fill	
Total PCBs	0.44	0.37	29	

BH04-98	1/16/1998 1-3 ft BGS fill	1/16/1998 5-7 ft BGS fill	1/16/1998 7-7.25 ft BGS fill
Total PCBs	42	0.71	19.8

BH9-13	10/9/2013 1-3 ft BGS fill	10/9/2013 7-9 ft BGS fill
Total PCBs	0.7 J	9.9 J

PROPOSED SOIL WITH PCB IMPACTS GREATER THAN 100 mg/kg REMOVAL



KEY MAP

LEGEND

0 5 10ft

- BH1-98 — SOIL BORING LOCATION (LESS THAN 10 ppm PCBs)
- BH1-98 — SOIL BORING LOCATION (LESS THAN 25 ppm PCBs BUT GREATER THAN 10ppm PCBs)
- BH1-98 — SOIL BORING LOCATION (LESS THAN 100 ppm PCBs BUT GREATER THAN 25 ppm PCBs)
- BH1-98 — SOIL BORING LOCATION (GREATER THAN 100 ppm PCBs)
- PROPOSED CONCRETE CORE SAMPLE TO BE ANALYZED FOR PCBs, TCLP METALS, AND TCLP VOCs
- PROPOSED CONCRETE CORE TO BE PLACED ON HOLD PENDING PCB RESULTS OF CONCRETE CORE
- BRANCH SEWERS TO CITY - SANITARY, STORM AND PROCESS
- ABANDONED SEWER LINES
- AREA WHERE COVER (MIN. 6" OF CONCRETE) IS TO BE MAINTAINED
- PROPOSED EXCAVATION LIMITS
- 3m BY 3m GRID USED TO VERIFY SOIL PCB CONCENTRATIONS TO REMAIN IN PLACE IN SOIL. SAMPLES WILL BE COLLECTED FROM EACH GRID AND COMPOSITED WITH THE OTHER GRID SAMPLES WITHIN THE QUADRANT IDENTIFIED BY A LETTER ("A").
- MATERIAL TO BE REMOVED AND DISPOSED OF AS TSCA WASTE

(1) THE HISTORICAL SOURCE OF THE PCBS IDENTIFIED IN THE I27.7 AREA WAS A TRANSFORMER THAT WAS DROPPED AND LEAKED OIL WITH PCBS TO THE GROUND SURFACE. IT SEEMS UNLIKELY THAT PCBS WOULD HAVE MIGRATED THROUGH 10 FEET OF CLAY AT BH7-98 AND BE FOUND AT A CONCENTRATION OF 1,500 mg/kg WHEN THERE WAS NO DETECTION OF PCBS IN THE SHALLOWER SAMPLES. THEREFORE, NO EXCAVATION IS PROPOSED TO REMOVE THE PCBS IN SOIL AT 13-15 FT BGS AT BH7-98 GIVEN THAT THE MORE RECENT RESULTS FROM THE SAMPLES COLLECTED AT BORING (BH2-13) WHICH WAS ADVANCED IN THE VICINITY OF BH7-98, WERE LESS THAN 10 mg/kg.

BH1-13	10/8/2013 13-15 ft BGS clay	— SAMPLE LOCATION — SAMPLE LOCATION — SAMPLE DEPTH — SOIL TYPE
Total PCBs	ND (0.037)	— RESULT (mg/kg)
		— PARAMETER

Proposed TSCA Soil Removal		
Excavation Depth (ft. bgs.)	Area (sq. ft.)	Volume of Material (cu. ft.)
0-5	1095	5475

NOTE:
THIS DRAWING HAS BEEN PREPARED UTILIZING ALL AVAILABLE INFORMATION, HOWEVER UTILITY LOCATIONS SHOULD BE FIELD VERIFIED BEFORE COMPLETING ANY INTRUSIVE ACTIVITIES.

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE (RACER)
MALLEABLE IRON INDUSTRIAL LAND
SAGINAW, MICHIGAN

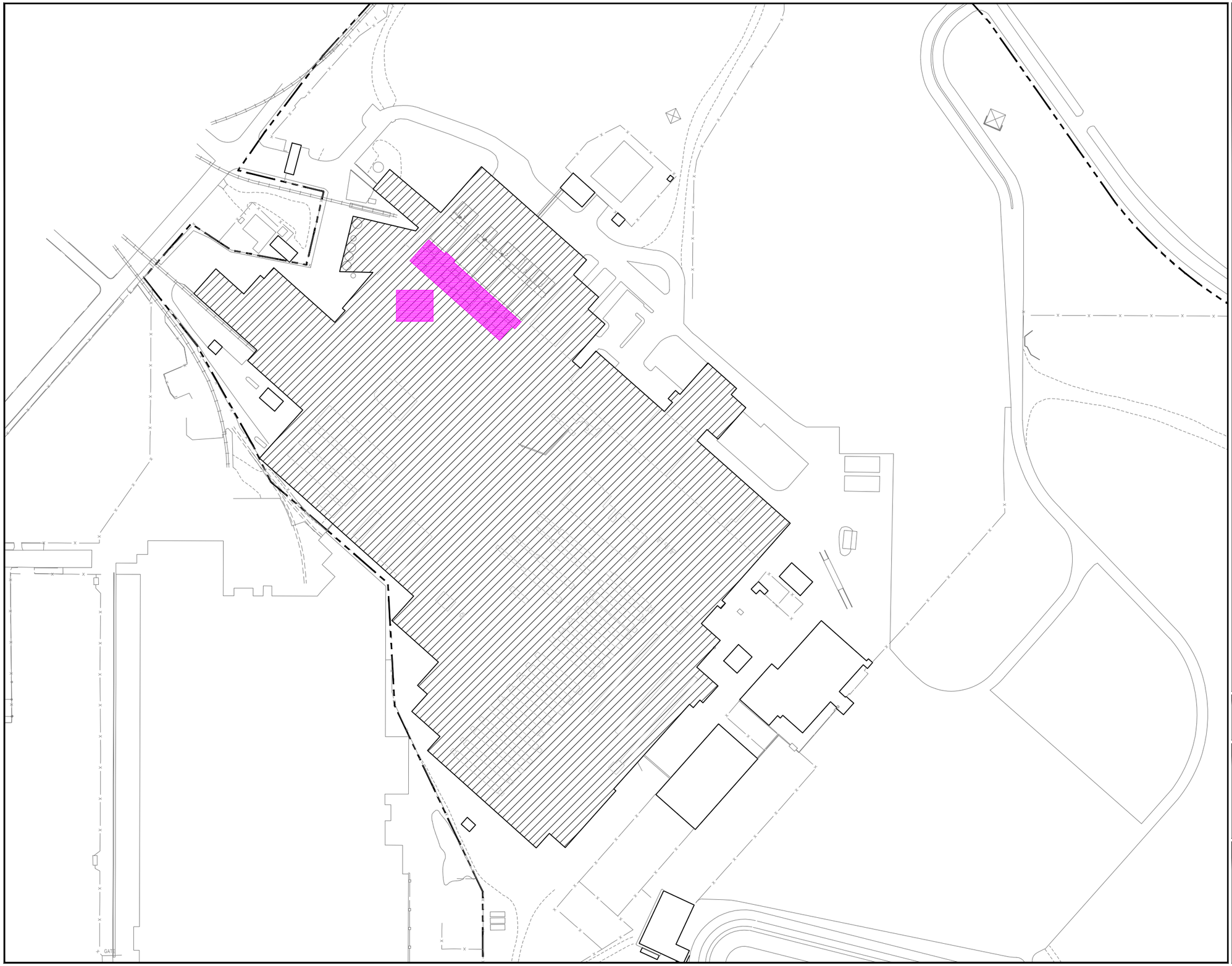
REMOVAL OF PCB IMPACTED SOIL AND CONCRETE IN THE I27.7 MANHOLE AREA

CONESTOGA-ROVERS & ASSOCIATES

Source Reference:

Project Manager:	Reviewed By:	Date:	
MRT	JEP	MARCH 2015	
Scale: 1:10	Project Nº: 07878-T01	Report Nº: 023	Drawing Nº: figure 2.5

07878-T01(023)GN-WA008 MAY 7/2015



0 50 100ft

LEGEND

RACER MALLEABLE IRON INDUSTRIAL LAND PROPERTY LINE (APPROX.)

BUILDING OUTLINE

FENCE LINE

PROPOSED RESTRICTIONS LIMITING USE TO LOW OCCUPANCY

PROPOSED NOTICE TO BE INCLUDED ON DEED TO IDENTIFY THAT PCBS ABOVE 100 ppm EXIST IN THIS AREA

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE (RACER) MALLEABLE IRON INDUSTRIAL LAND

SAGINAW, MICHIGAN

PROPOSED DEED RESTRICTIONS FOR AREAS OF THE CONCRETE FLOOR SLAB

CONESTOGA-ROVERS & ASSOCIATES

Source Reference:

Project Manager:	Reviewed By:	Date:	
MRT	JEP	MARCH 2015	
Scale: 1:100	Project No: 07878-T01	Report No: 023	Drawing No: figure 2.6

07878-T01(023)GN-WA009 MAR 24/2015

TABLE 2.1
SUMMARY OF GEOTECHNICAL LABORATORY TEST RESULTS
FROM SAGINAW NODULAR INDUSTRIAL LAND CLAY PILE
MALLEABLE IRON INDUSTRIAL LANDS
SAGINAW, MICHIGAN

Sample ID (As Received)	*Date Sample Received*	*Sample Number*	*Labotary Number*	*Particle Size Distribution*					*As Received Moisture Content (%)*	*Atterberg Limits (%)*			*Standard Proctor*			*Remolded Permeability*			
				% Gravel	*% Sand*	*% Silt*	*% Passing NO. 200 Mesh*	*% Clay (<0.002 mm)*		*Liquid Limit (LL)*	*Plastic Limit (%)*	*Plasticity Index (%)*	*Maximum Dry Density (kg/m^3)*	*Maximum Dry Density (lbs/ft^3)*	*Optimum Moisture (%)*	*Maximum Dry Density (lbs/ft^3)*	*Compaction (%)*	*Moisture Content (%)*	*Permeability (cm/sec)*
Clay Liner Specifications				-	-	-	***>30***	-	-	***>30***	-	***>15***	-	-	-	-	-	-	1.0E-07
CL1	7-Nov-13	1	WLA 344-1	4	29	38	67	29	12	29	12	17	1914	119	13.2	113	95	14.8	1.4E-08
CL2	7-Nov-13	2	WLA 344-2	2	31	39	67	28	11	28	11	17	1942	121	12.6	115	95	14.6	2.4E-08
CL3	7-Nov-13	3	WLA 344-3	4	37	36	59	23	21	28	12	16	1885	118	13.0	112	95	15.3	2.2E-08
CL4	7-Nov-13	4	WLA 344-4	5	37	35	58	23	11	21	10	11	1919	120	13.1	114	95	15.0	2.6E-08
CL5	7-Nov-13	5	WLA 344-5	4	38	36	58	22	12	21	11	10	1948	122	11.8	116	96	14.2	1.9E-08
CL6	7-Nov-13	6	WLA 344-6	2	29	40	69	29	13	24	12	12	1911	119	13.1	113	95	14.4	2.9E-08
			Average Value:	4	34	37	63	26	13	25	11	14	1920	120	12.8	114	95	14.7	2.2E-08

Appendix A

Certification

Pursuant to 40 CFR761.61(a)(3)(i)(E), all sampling plans, sample collection procedures, sample preparation procedures, extraction procedures, and instrumental/chemical analysis procedures used to assess or characterize the PCB contamination related to the investigation and cleanup activities specified in the Work Plan will be maintained in the following location and accessible for inspection by U.S. EPA:

- Conestoga-Rovers & Associates, Inc.
  Attn: Michael Tomka, P.E.
  14496 Sheldon Road, Suite 200
  Plymouth, Michigan 48170

RACER Trust has retained Conestoga-Rovers & Associates, Inc. (CRA). CRA, as the Engineer, represents RACER Trust and will act as the party implementing the cleanup plan in accordance with 40 CFR 761.61. Effective July 1, 2015, CRA will be officially changing its name to "GHD Services Inc." The personnel and office location identified on this certification will remain the same.



Owner Representative Signature

May 8, 2015
Date

David Favero, Deputy Cleanup Manager - Michigan
Owner Representative Printed Name

500 Woodward Avenue, Suite 1510, Detroit, Michigan 48226
Address of Owner

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
SAGINAW BAY DISTRICT OFFICE

RICK SNYDER
GOVERNOR

KEITH CREAGH
DIRECTOR

March 29, 2016

Mr. Jose Cisneros, Chief
Waste Management Branch
Land and Chemicals Division
U.S. Environmental Protection Agency, Region 5
77 West Jackson Boulevard LU-9J
Chicago, Illinois 60604-3507

Dear Mr. Cisneros:

SUBJECT: Coordinated Approval for Cleanup of Polychlorinated Biphenyls (PCBs) at the RACER Trust Saginaw Malleable Industrial Land – MID0053566696, 77 West Center Street, Saginaw, Saginaw County, Michigan

The Michigan Department of Environmental Quality (MDEQ), Office of Waste Management and Radiological Protection (OWMRP), and Remediation and Redevelopment Division (RRD) is requesting concurrence from the U.S. Environmental Protection Agency, Region 5 (EPA Region 5), for a coordinated approval for the **Risk Based Disposal Work Plan for PCB Impacted Material** (Work Plan), dated May 8, 2015, for PCB cleanup and disposal at the **Wayne Disposal Inc. Site #2 Landfill, 49350 N. I-94 Service Drive, Belleville, Michigan 48111, EPA ID# MID 00072483** under the Toxic Substances Control Act (TSCA), Title 40 of the Code of Federal Regulations (CFR), Part 761, February 17, 1978, as amended. The MDEQ is making this request under the amended final rules for Disposal of Polychlorinated Biphenyls (PCBs) effective August 28, 1998, 40 CFR Parts 750 and 761. This letter was prepared in consultation with Dr. Deb MacKenzie-Taylor, the MDEQ's TSCA liaison. Dr. MacKenzie-Taylor can be reached by telephone at 517-614-7333 or via e-mail at mackenzie-taylord@michigan.gov.

The Revitalizing Auto Communities Environmental Response (RACER) Trust has formally requested approval of the Work Plan from the MDEQ. In a letter dated May 8, 2015, to Mr. Peter Ramanaukas, RACER Trust formally requested Coordinated Approval for the Work Plan from the EPA Region 5 pursuant to 40 CFR Section 761.77(c).

The Saginaw Malleable Industrial Land, formerly General Motors Saginaw Malleable Iron facility, is subject to the Resource Conservation and Recovery Act of 1976 (RCRA) Subtitle C Corrective Action (CA) requirements, at Title 42 of the United States Code (U.S.C.), Section 6901 et seq. and has committed to timely implementation of CA requirements, including meeting the federal Government Performance Results Act (GPRA) implementation schedule and completion of final remedies. The MDEQ is the lead agency in facilitation, oversight, and approval authority for CA obligations at the Saginaw Malleable Iron Facility under its authority as a state authorized to implement RCRA, 42 U.S.C., Section 6926, and in furtherance of its statutory and regulatory responsibilities pursuant to Part 111, Hazardous Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA), Michigan Compiled Laws (MCL) 324.11101 et seq. and including the environmental protection or cleanup standards and associated requirements pursuant to Part 201, Environmental Remediation, of the NREPA, MCL 324.20101 et seq.

The MDEQ supports approval of the proposed Work Plan and verifies that work completed to address PCBs and the work proposed for completion in the Work Plan satisfies the requirements of Part 111 and Part 201 for PCB remediation. With this determination, the MDEQ submits this notice of intent to approve pursuant to Part 111 and recommendation that the EPA Region 5 concur with a coordinated approval pursuant to 40 CFR Section 761.77(c)(1)(ii).

These PCB related activities are part of other response activities at the Saginaw Malleable Industrial Land. The other response activities are briefly described below for consideration of how the PCB related activities within this Work Plan are part of the overall remediation of this site.

1. Several phases of Remedial Investigation, a Feasibility Study, a Human Health Risk Assessment, an Ecological Risk Assessment, and a Remedial Action Plan were completed under Part 201 and have been approved for the Saginaw Malleable facility. These plans included many interim response activities, such as Non-Aqueous Phase Liquid (NAPL) recovery, soil excavation, groundwater treatment, vegetative cover, and sewer work, which addressed the environmental conditions at the site. The contaminants at the site have included PCBs in NAPL and soil, total metals in soil, and low level volatile organic compounds and PCBs in groundwater. Land use restrictions, engineering controls, and long term monitoring and maintenance have also been proposed.

2. The Risk Based Disposal Work Plan for PCB Impacted Material addresses PCBs in soil and concrete that will be removed from some areas of the site and properly disposed. In other areas of the site, PCBs, with controls, will be left on-site and covered with a soil cap. For a more detailed description of proposed work to address the remaining PCBs onsite, please see the Work Plan.

3. Regarding the Saginaw Malleable facility, Consent Judgment No. 98-22686-CE-2 was entered on March 16, 1998 between the Department of Attorney General, MDEQ, and General Motors. This Consent Judgment, with specific modifications, was approved as the Legally Enforceable Agreement with the approval of the Remedial Action Plan on February 27, 2009. It is understood by the MDEQ and RACER Trust that the Saginaw Malleable Iron Legally Enforceable Agreement will serve as the technical and legal basis of the TSCA PCB Coordinated Approval and all requirements, conditions, and limitation of the Legally Enforceable Agreement will be conditions of the TSCA PCB Coordinated Approval, as well as RCRA corrective action.

The MDEQ determined that the PCB concentrations found at the Saginaw Malleable Industrial Land in excess of the Part 201 cleanup criteria for PCBs present an unreasonable risk to human health and the environment and required further response activities. The MDEQ recognizes that the EPA Regional Administrator has no authority under TSCA over PCB waste disposed prior to April 18, 1978, which does not currently exceed 50 parts per million (ppm); however, for ease of implementation, concentrations of PCBs in environmental media at the Saginaw Malleable Industrial Land that exceed the Part 201 generic cleanup criteria are assumed to constitute an unreasonable risk of injury to human health or the environment and are, therefore, subject to regulation under Part 111, which includes the cleanup standards under Part 201, regardless of when the contamination occurred.

The MDEQ evaluated the Work Plan for compliance with Part 201 cleanup criteria and risk-based processes to assess risk from exposure to PCB contamination at the Saginaw Malleable Industrial Land and considered response actions, land use, engineering, and/or exposure controls as allowed under Part 111 and Part 201, as appropriate, (and TSCA §761.61(a)) and consistent with the goals of RCRA corrective action.

Consistent with these goals, the MDEQ is specifically requesting the following with regard to PCB remediation activities at the Saginaw Malleable Industrial Land:

1. That the EPA Regional Administrator make a determination under §761.77(c)(1)(ii) that Part 111 requires management of PCB contamination that is no less stringent than the applicable TSCA PCB requirements found at §761.61(c) or §761.62(c). For background information on the Part 111 corrective action requirements including Part 201 cleanup criteria, see the attachment;

2. That the EPA Regional Administrator make a determination that the MDEQ-approved Work Plan, constitutes a "PCB decision or enforcement document" that conforms to the requirements of the TSCA PCB requirements found at §761.77(c); and

3. That the EPA Regional Administrator grant a TSCA PCB Coordinated Approval.

The MDEQ is asking that the EPA Region 5 provide formal, documented concurrence for approval under TSCA PCB coordinated approval at 40 CFR, Section 761.77(c) after expeditious review of the Work Plan for response activity under Part 111 to address the PCB contaminated property. The MDEQ agrees to the following to expedite formal approval by the MDEQ and EPA Region 5 of the Work Plan to address PCB contaminated soils at the Saginaw Malleable Industrial Land to achieve protection of human health, safety, welfare, and the environment; and facilitate the timely implementation of GPRA requirements.

1. As soon as the EPA Region 5 issues a letter of intent to grant approval, the MDEQ will expeditiously (within 14 days) issue a formal approval that is an enforceable document, including any conditions the EPA Region 5 indicates are necessary to prevent unreasonable injury to human health or the environment.

2. The MDEQ will monitor compliance with the approved PCB remediation measures and will notify the EPA Region 5 of changes relating to PCB remediation requirements and/or changes in facility ownership.

This process in no way supersedes or eliminates the PCB remediation and disposal options available to the RACER Trust for the Saginaw Malleable Industrial Land at any time under 40 CFR, Section 761.61.

Thank you for consideration for coordinated approval of this Work Plan for PCB remediation activities at the Saginaw Malleable Industrial Land. The MDEQ is confident that Michigan's Part 111 Program, which adopts the Part 201 cleanup standards, meets the requirements at 40 CFR, Section 761.77(c)(1)(ii) for a TSCA PCB coordinated approval (see Attachment) and with reference the Corrective Action Memorandum of Understanding entered into by the EPA and the MDEQ on November 3, 2000, and the addendum letter dated April 15, 2002; see http://www.michigan.gov/deq/0,1607,7-135-3312_4118_4240-56396--,)).html.

The MDEQ is looking forward to receiving a letter of concurrence from the EPA Region 5.

We appreciate your willingness to work with the MDEQ on this TSCA PCB Coordinated Approval process. Enclosed is our approval letter. Should you require further information, please contact me, Sue Kaelber-Matlock, at 989-894-6249, matlocks@michigan.gov, or by mail at 401 Ketchum Street, Bay City, Michigan 48708. You may also contact Dr. Deb MacKenzie-Taylor at 517-614-7333; or mackenzie-taylord@michigan.gov.

Sincerely,

Sue Kaelber-Matlock, Senior Geologist
Saginaw Bay District Office
Remediation and Redevelopment Division
989-894-6249
matlocks@michigan.gov

Enclosures
cc/enc: Mr. Peter Ramanauskas, EPA, Region 5
Mr. Dave Favero, RACER Trust
Ms. Virginia Himich, MDEQ
Dr. Deb MacKenzie-Taylor, MDEQ
Ms. Rhonda Klann, MDEQ

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
SAGINAW BAY DISTRICT OFFICE

RICK SNYDER
GOVERNOR

KEITH CREAGH
DIRECTOR

March 29, 2016

Mr. Dave Favero
Deputy Clean-Up Manager
RACER Trust
500 Woodward Avenue, Suite 1510
Detroit, Michigan 48226

Dear Mr. Favero:

SUBJECT: Approval of Risk Based Disposal Work Plan for PCB Impacted Material, RACER Trust Saginaw Malleable Industrial Land- MID0053566696 (Former General Motors Saginaw Malleable Iron Facility), 77 West Center Street, Saginaw, Saginaw County, Michigan

RACER Trust has formally requested approval for the Saginaw Malleable Industrial Land from the Michigan Department of Environmental Quality (MDEQ) for response activities, outlined in the Risk Based Disposal Work Plan for PCB Impacted Material, (Work Plan), dated May 8, 2015. The MDEQ has completed its technical review of the Work Plan pursuant to Part 111, Hazardous Waste Management, of the Michigan Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA), Michigan Compiled Laws (MCL) §§324.11101 et seq. (Part 111) including the environmental protection or cleanup standards and associated requirements pursuant to Part 201, Environmental Remediation, of the NREPA, MCL §§324.20101 et seq. (Part 201) and the resource federal Conservation and Recovery Act of 1976 (RCRA), Subtitle C, corrective action requirements of Title 42 of the United States Code §6901 et seq.

On May 15, 2015, the MDEQ formally requested Toxic Substances Control Act of 1976 (TSCA) Coordinated Approval for the Work Plan from the U.S. Environmental Protection Agency (EPA), Region 5, under the amended final rules for Disposal of PCBs effective August 28, 1998, Title 40 of the Code of Federal Regulations (CFR), Parts 750 and 761, specifically 761.77(3)(c). That letter (copy enclosed) described the basis for the request and provided additional details regarding the regulatory framework and background for the corrective action conducted at the facility to date. RACER Trust formally requested Coordinated Approval from the EPA for the Work Plan for the Saginaw Malleable Industrial Land on May 8, 2015.

Upon consultation with the EPA, the MDEQ has determined that the Work Plan will comply with the corrective action objectives of Part 111/RCRA, including the environmental protection standards and associated requirements pursuant to Part 31 and Part 201.

This approval is based in part on other interim response work that has been completed to address the environmental conditions at the site, including, but not limited to, contaminated soil excavation, Non-Aqueous Phase Liquid (NAPL) recovery, and sewer work and the imposition of land use restrictions, engineering controls, and long-term monitoring and maintenance across the site. The MDEQ expects that RACER Trust for Saginaw Malleable Industrial Land will apply

land use restrictions and engineering controls that are approvable and satisfy the requirements of TSCA for PCBs that exceed the applicable cleanup criteria and are left in place. It is the MDEQ's expectation that a restrictive covenant intended to maintain nonresidential use and any engineering controls that are necessary would list the contaminants that are remaining on the property at levels above residential criteria. If total PCBs are left in place above the applicable residential or high occupancy criteria, PCBs will be included as contaminants of concern as part of the restrictive covenant.

This approval of the Work Plan is based upon the representations and information contained in the submittal; therefore, the MDEQ expresses no opinion as to whether other conditions that may exist will be adequately addressed by the response activities that are proposed. Notwithstanding this approval, if environmental contamination is found to exist that is not addressed by this Work Plan, additional corrective action may be necessary.

Should you require further information please contact me at the number below.

Sincerely,

Sue Kaelber-Matlock, Senior Geologist
Saginaw Bay District Office
Remediation and Redevelopment Division
989-894-6249
matlocks@michigan.gov

Enclosure

cc: Mr. Joe Cisneros, EPA
Mr. Peter Ramanauskas, EPA
Ms. Jean Greensley, EPA
Dr. Deb MacKenzie-Taylor, MDEQ
Ms. Rhonda Klann, MDEQ

Attachment
Background Information on the Part 111 Corrective Action, including the Part 201 Environmental Protection Standards in Support of Toxic Substances Control Act (TSCA) Polychlorinated Biphenyls (PCBs) Coordinated Approvals in Michigan

Background: Part 111 Corrective Action and the Use of Part 201 Environmental Protection Standards

The Michigan Department of Environmental Quality (MDEQ) has facilitation, oversight and approval authority for corrective action obligations as a state authorized to implement the Resource Conservation and Recovery Act of 1976 (RCRA), as amended, Subtitle C Hazardous Waste Management Program, at Title 42 of the United States Code (U.S.C.), §6901 *et seq.* Michigan implements its State Hazardous Waste Program, including corrective action obligations, under Part 111, Hazardous Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA), §324.1101 *et seq.* In accordance with the Michigan Administrative Code (MAC) R 299.9629(3)(a)(ii), (iii), (b)(ii), and (iii), corrective action requirements include the groundwater protection standards and environmental protection standards for other media established pursuant to Part 201, Environmental Remediation, of the NREPA. The United States Environmental Protection Agency (EPA) Region 5 has concurred with the use of the Part 201 cleanup criteria for corrective action in Michigan with a Corrective Action Memorandum of Understanding entered into by the EPA and the MDEQ on November 3, 2000, and the addendum letter dated April 15, 2002; see http://www.michigan.gov/deq/0,1607,7-135-3312_4118_4240-56396--,)).html.

Background: Part 201 Cleanup Program

Michigan has a comprehensive environmental cleanup program that is governed by Part 201. Part 201 provides for the identification, risk assessment, evaluation, and cleanup of sites of environmental contamination in Michigan. Part 201 is administered by the MDEQ, Redevelopment and Remediation Division (RRD), which also oversees Michigan's participation in the federal Superfund Program.

Under Part 201, the MDEQ is authorized to establish environmental protection standards (generic cleanup criteria) in land-use based categories. The generic categories for cleanup criteria are residential and nonresidential. Generic exposure assumptions based on land use are used to calculate generic cleanup criteria for each category. To date, generic cleanup criteria have been developed for residential and nonresidential land use. Due to the wide spectrum of possible activities and land uses, recreational sites are currently considered on a case-by-case basis. The categorical cleanup standards require that land use and/or resource use restrictions be imposed at sites that do not comply with residential criteria. These use restrictions assure that land and resource use at a site match the assumptions applied in calculating the cleanup criteria. For example, if a site complies with industrial criteria but exceeds residential criteria, use of the property must be restricted to industrial purposes unless further evaluation and/or remediation are done. A restrictive covenant is recorded on the property deed for generic nonresidential land use category properties to ensure that future use will be consistent with the closure assumptions. No notice is required under the generic residential category because sites closed under this category are appropriate for unrestricted use.

Part 201 also provides for "limited" categories for each land use. Site closures under the limited categories are used when an exposure barrier/control, land use, and/or resource use restriction will prevent contact with environmental media impacted at concentrations above the generic cleanup criteria. For example, if soil concentrations exceed generic criteria for the intended land use, pavement and/or clean cover may be used to prevent future exposures to soil with land use restrictions requiring routine inspection and maintenance of the cover, dig restrictions, and institutional controls for handling

any future excavation in the restricted area. Land use restrictions may also be used to prevent the use of impacted groundwater as a source of drinking water.

In addition, site-specific risk assessments and cleanups are possible under Part 201. Site-specific cleanups are used when the anticipated conditions, activities, and exposures (e.g., soil characteristics, exposure duration, or frequency) for a site differ from those assumed for the generic categories. Limited and many site-specific cleanups require that land use restrictions and/or exposure barriers be described in a restrictive covenant, a legally enforceable document, to be recorded on the deed to the property. Additionally, permanent markers may be required at the site.

Both a notice of MDEQ-approved environmental remediation and a restrictive covenant run with the land and are binding on the owner's successors, assigns, and lessees.

Part 201 Screening Level Risk Assessment for PCBs

The methodology for calculation of Part 201 generic criteria is consistent with that presented in the U.S. Environmental Protection Agency's (EPA) *Soil Screening Guidance: Technical Background Document* (May 1996) and the *Risk Assessment Guidance for Superfund* (1989). The Part 201 cleanup criteria and methodologies were promulgated into the Part 201 administrative rules in December 2002 (R 299.5101 *et seq.*). Part 201 criteria are back-calculated from a target cancer risk for carcinogens or a hazard quotient for noncarcinogens. The statutory target cancer risk under Part 201 is 1 additional cancer above the background cancer rate for 100,000 individuals. A hazard quotient of 1 is used to derive criteria for noncarcinogenic compounds. Criteria are developed based on generic assumptions that characterize patterns of human exposure associated with a specific land use category. Consistent with the EPA guidance, a mix of upper bound and average values are chosen to represent a reasonable maximum exposure for a human receptor identified to represent the pattern of activity for each land use. Therefore, if site concentrations do not exceed criteria, it may be assumed that exposure to contaminants will not result in an unacceptable risk. Conversely, concentrations that exceed criteria indicate that exposure to site contaminants may result in an unacceptable risk of adverse health effects.

Criteria for groundwater and soil have been calculated for several human exposure pathways including drinking water ingestion, soil leaching to groundwater, dermal contact with groundwater in an excavation, incidental ingestion and dermal contact with soil, volatile and particulate releases to ambient air, and groundwater and soil volatilization to indoor air. Additional criteria for the protection of aquatic species, terrestrial wildlife, and human secondary exposures are applicable to groundwater that vents to surface water bodies. At sites of environmental contamination where multiple pathways are relevant, the most restrictive criterion for each media is chosen as the applicable cleanup goal.

While the Part 201 Program relies heavily on the generic cleanup criteria to evaluate sites of environmental contamination, professional judgment is also used to identify those situations that require more restrictive cleanup. For example, if site conditions result in overland runoff of soil contaminants to surface waters, response action may be required even where soil concentrations do not exceed the applicable generic criteria.

For PCBs in soil, the Part 201 direct contact pathway results in the most restrictive generic cleanup criteria. The Part 201 generic direct contact criteria (DCC) consider both incidental ingestion of soil and direct dermal contact with soil. The following table presents the DCC for PCBs for each land use category. Compliance with the DCC is required throughout the soil profile, including soils at depth, since it is assumed that subsurface soils may be brought to the surface in the future.

Land Use Category	Part 201 DCC in parts per million (ppm) or milligrams per kilogram (mg/kg)
Residential	4.0 (1.0 to be no less stringent than TSCA when applicable)
Nonresidential	16

Part 201 requires that a State Drinking Water Standard, if available, be used as the cleanup criterion for groundwater used as a source of drinking water. The Michigan standard is identical to the federal maximum contaminant level (MCL) for PCBs of 0.5 parts per billion (ppb) or micrograms per liter (µg/L). If groundwater is currently venting to surface water or may vent to surface water in the future, the water quality standard for protection of surface water is 0.2 ppb (µg/L) for PCBs.

Title 40 Code of the Federal Regulations (CFR), §761.50 Applicability - Pre-1978 Disposals

40 CFR, §761.50(b)(3)(i) gives the EPA Regional Administrator the authority to direct "any person responsible for PCB waste at concentrations ≥50 ppm placed in a land disposal facility, spilled, or otherwise released into the environment prior to April 18, 1978" to characterize and/or cleanup PCB remediation wastes. Cleanup may be directed if the EPA Regional Administrator makes a finding that an unreasonable risk of injury to health or the environment from exposure to PCBs exists at the site. The screening level risk assessment presented above is used to generate the cleanup criteria based on a set of exposure assumptions for each land use category provided for in Part 201. As such, if PCB concentrations at a site exceed the risk-based criteria, it may be assumed that an unreasonable risk of injury to health or the environment may exist for this site. The MDEQ is requesting that the EPA Regional Administrator make a finding that concentrations that exceed the Michigan generic Part 201 cleanup criteria for PCBs constitute an unreasonable risk of injury to health and/or the environment.

40 CFR, §761.77 Coordinated Approval

40 CFR, §761.77 gives the EPA Regional Administrator the authority to issue a TSCA PCB Coordinated Approval and details the requirements for such an approval. Approval may be granted under 40 CFR, §761.77(c)(1)(ii) if the EPA Regional Administrator determines (1) that the activity will not pose an unreasonable **risk of injury** to health and the environment and (2) if a person requesting the approval has a **permit or other decision or enforcement document** issued by a State Director pursuant to a State program that has been approved by EPA, which exercises control over the management of PCB wastes and the person is in compliance with all terms and conditions of that document. The state program may be **no less stringent** in protection of health or the environment than the applicable TSCA requirements.

"Risk of Injury" – A screening level risk assessment is used to generate the generic cleanup criteria based on a set of exposure assumptions for each land use category provided for in Part 201. As such, if PCB concentrations at a site **do not** exceed the generic risk-based criteria developed for each cleanup category, it may be assumed that an unreasonable risk of injury to health or the environment **does not** exist for this site providing that future site activities remain consistent with the closure assumptions.

"PCB Waste Management Permit or Other Decision or Enforcement Document" – Part 111, §324.11115a(2) requires corrective action to be conducted under a license, permit, or order. "Enforceable document" is defined under MAC R 299.9103(e) and includes a postclosure plan, corrective action order, or other document issued by the MDEQ in lieu of an operating license. Any

work plans approved under a license, postclosure plan, corrective action order, or consent judgment pursuant to Part 111, become an enforceable document once approved by the MDEQ.

Part 201, §324.20118 provides the MDEQ with the authority to undertake response activity, or to approve response activity proposed by a person, consistent with Part 201 and the rules promulgated thereunder. Response activity undertaken under Part 201 must (1) assure protection of the public health, safety, and welfare, and the environment; (2) attain a degree of cleanup and control of hazardous substances that complies with all applicable or relevant and appropriate requirements, rules, criteria, limitations, and standards of state and federal law; and (3) be consistent with any cleanup criteria incorporated in the Part 201 Rules but not less stringent than TSCA. An interim response activity plan must be submitted and approved if (1) the person proposing the plan wishes to document MDEQ approval of the plan. An interim response activity plan approved by MDEQ via this process constitutes both a decision and, in some cases, an enforceable document issued by a State Director pursuant to a State PCB Waste Management Program. Therefore, the MDEQ is requesting that the EPA Regional Administrator make a determination that a MDEQ approved interim response activity plan that complies with Part 201 constitutes a "PCB decision or enforcement document" that conforms to the requirements of the TSCA PCB requirements found at 40 CFR, §761.77(b).

"No Less Stringent" – 40 CFR, §761.61(c) and §761.62(c) provide for risk-based disposal approval for PCB remediation waste and bulk product waste, respectively. The Part 201 screening level risk assessment used to generate the generic cleanup criteria is consistent with the risk assessment methods presented in the EPA's Risk Assessment Guidance for Superfund (1989) and Soil Screening Guidance: Technical Background Document (1994). Environmental PCB concentrations below Part 201 risk-based criteria may be assumed to not pose an unreasonable risk of injury to human health or the environment. Site closures under Part 201 limited categories are also consistent with the risk assessment methods presented in the EPA's Risk Assessment Guidance for Superfund (1989). Land use restrictions and/or exposure barriers approved under limited category cleanups render human exposure pathways incomplete. Since exposure to impacted media is prevented, a site-specific risk assessment will indicate no unacceptable risk to human receptors. Environmental impacts of PCB contamination must also be considered within limited and some site-specific cleanups, and additional cleanup activities may be required as necessary to protect the environment. As such, Part 201 provides for management of PCB waste within generic, limited, and site-specific cleanups that is no less stringent in protection of human health or the environment than the applicable TSCA requirements in 40 CFR, §761.61(c) and §761.62(c).

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

JUL 15 2016

REPLY TO THE ATTENTION OF:

Mr. Dave Favero
Deputy Clean-Up Manager
RACER Trust
500 Woodward Avenue, Suite 1510
Detroit, Michigan 48226

RE: U.S. EPA Coordinated Approval
RACER Trust Saginaw Malleable Industrial Land - MID0053566696
Former General Motors Saginaw Malleable Iron Facility
77 West Center Street, Saginaw, Saginaw County, Michigan

Dear Mr. Favero:

This letter is a Toxic Substances Control Act (TSCA) Polychlorinated Biphenyl (PCB) Coordinated Approval of your May 8, 2015 request for remediation and disposal of PCB impacted concrete and soil at the former General Motors Saginaw Malleable Iron facility in Saginaw, Michigan. This approval is granted in accordance with TSCA Section 6(e) and the Federal PCB regulations at 40 Code of Federal Regulations (CFR) §761.77.

The Saginaw Malleable Iron facility is subject to the Resource Conservation and Recovery Act of 1976 (RCRA) Subtitle C Corrective Action (CA) requirements. The Michigan Department of Environmental Quality (MDEQ) is the lead agency in oversight of RCRA CA obligations at the Saginaw Malleable Iron Facility under its authority as a state authorized to implement RCRA, 42 U.S.C., Section 6926, and in furtherance of its statutory and regulatory responsibilities pursuant to Part 111, Hazardous Waste Management, and Part 201, Environmental Remediation, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA), Michigan Compiled Laws (MCL) 324.1101 *et seq*. and MCL 324.20101 *et seq*.

RACER Trust requested approval from the MDEQ of response activities outlined in the May 2015 Remediation Plan which includes the excavation and off-site disposal of PCBs in soil and concrete and the on-site management of residual PCB impacted soil under a soil covered concrete cap. MDEQ approved the plan on March 31, 2016. Per EPA request, RACER amended the cover for the residual PCB impacted soil. The residual PCB impacted soil will be covered by a geo-fabric demarcation layer and up to 54 inches of fill overlain by two feet of clay and a two inch layer of topsoil.

Recycled/Recyclable • Printed with Vegetable Oil Based Inks on 100% Recycled Paper (100% Post-Consumer)

The MDEQ-approved Work Plan for the Saginaw Malleable Iron facility constitutes a "decision and enforcement document issued by an authorized State Director for a State Program that has been approved by the EPA" that serves as the technical and legal basis of the TSCA PCB Coordinated Approval pursuant to 40 CFR §761.77(c)(1)(i). Under this TSCA Coordinated Approval, EPA finds that PCB remediation activities conducted in accordance with the PCB Remediation Plan, the amended cover design for the residual PCB impacted soil and the sidewall verification sampling and restrictive covenant conditions required by this Coordinated Approval, will not present unreasonable risk of injury to health or the environment.

RACER Trust must abide by the conditions identified in the MDEQ approval letter for remediation and disposal of PCB Remediation Waste generated under the PCB Remediation Plan. In addition, RACER Trust must use the amended cover design over the residual PCB impacted soil and conduct verification sidewall sampling where the excavation depth of the PCB contaminated soil exceeds one foot. You must conduct the sampling in accordance with Subpart O of the PCB regulations. The restrictive covenant you establish for this site must include a statement stipulating that the cover over the residual PCB impacted soil at the site must be maintained in perpetuity.

In accordance with 40 CFR §761.77(a)(3), you must notify EPA in writing within 5 calendar days of any changes relating to PCB waste management requirements in the approved PCB Remediation Plan.

This letter does not relieve the site owner from compliance with any other federal, state or local regulation and does not preclude EPA from initiating any enforcement action, including an action seeking civil penalties for any violation of federal regulations.

If you have any further questions regarding this matter, please feel free to contact me or Jean Greensley of my staff at (312) 353-1171 or greensley.jean@epa.gov.

Sincerely,

for M.G.
Michael D. Harris

Margaret M. Guerriero
Director
Land and Chemicals Division

cc: Rhonda Klann, MDEQ (email)
Amanda Armbruster, MDEQ (email)
Deb MacKenzie-Taylor, MDEQ (email)
Michael Tomka, GHD (email)
John-Eric Pardys, GHD (email)

Appendix B
Analytical Reports

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: 240-63893-1
Client Project/Site: 7878-T01, RACER SMI

For:
GHD Services Inc.
14496 Sheldon Road, Suite 200
Plymouth, Michigan 48170

Attn: Rawa Fleisher

Denise D Heckler

Authorized for release by:
5/2/2016 2:57:44 PM

Denise Heckler, Project Manager II
(330)966-9477
denise.heckler@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: 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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Job ID: 240-63893-1

Laboratory: TestAmerica Canton

Narrative

Job Narrative
240-63893-1

Comments
No additional comments.

Receipt
The samples were received on 4/23/2016 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.3º C.

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

GC Semi VOA
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: C-7878-042116-SSH-16001 (240-63893-1). 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.

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

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

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

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

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC 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.
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.

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
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)

Sample Summary

Client: GHD Services Inc.
Project/Site: 7878-T01, RACER SMI

TestAmerica Job ID: 240-63893-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-63893-1	C-7878-042116-SSH-16001	Solid	04/21/16 10:00	04/23/16 09:30
240-63893-2	C-7878-042116-SSH-16002	Solid	04/21/16 10:45	04/23/16 09:30

Detection Summary

Client: GHD Services Inc.
Project/Site: 7878-T01, RACER SMI

TestAmerica Job ID: 240-63893-1

Client Sample ID: C-7878-042116-SSH-16001 — Lab Sample ID: 240-63893-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	220		200	49	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: C-7878-042116-SSH-16002 — Lab Sample ID: 240-63893-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	280		210	87	ug/Kg	1	☼	8082	Total/NA
Barium	0.24	J	10	0.0010	mg/L	1		6010B	TCLP
Chromium	0.0022	J B	0.50	0.00055	mg/L	1		6010B	TCLP
Arsenic	0.0067	J	0.50	0.0029	mg/L	1		6010B	TCLP
Lead	0.0024	J	0.50	0.0019	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

Method Summary

Client: GHD Services Inc.
Project/Site: 7878-T01, RACER SMI

TestAmerica Job ID: 240-63893-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
6010B	Metals (ICP)	SW846	TAL CAN
7470A	Mercury (CVAA)	SW846	TAL CAN
Moisture	Percent Moisture	EPA	TAL CAN

Protocol References:

EPA = US Environmental Protection Agency

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

Client: GHD Services Inc.
Project/Site: 7878-T01, RACER SMI

TestAmerica Job ID: 240-63893-1

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

Client Sample ID: C-7878-042116-SSH-16002
Date Collected: 04/21/16 10:45
Date Received: 04/23/16 09:30

Lab Sample ID: 240-63893-2
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.025	U	0.025	0.0095	mg/L			04/28/16 18:20	1
1,2-Dichloroethane	0.025	U	0.025	0.011	mg/L			04/28/16 18:20	1
2-Butanone (MEK)	0.25	U	0.25	0.029	mg/L			04/28/16 18:20	1
Benzene	0.025	U	0.025	0.0065	mg/L			04/28/16 18:20	1
Carbon tetrachloride	0.025	U	0.025	0.0065	mg/L			04/28/16 18:20	1
Chlorobenzene	0.025	U	0.025	0.0075	mg/L			04/28/16 18:20	1
Chloroform	0.025	U	0.025	0.0080	mg/L			04/28/16 18:20	1
Tetrachloroethene	0.025	U	0.025	0.015	mg/L			04/28/16 18:20	1
Trichloroethene	0.025	U	0.025	0.0085	mg/L			04/28/16 18:20	1
Vinyl chloride	0.025	U	0.025	0.011	mg/L			04/28/16 18:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 121*		*04/28/16 18:20*	*1*
4-Bromofluorobenzene (Surr)	*85*		*70 - 124*		*04/28/16 18:20*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*04/28/16 18:20*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 128*		*04/28/16 18:20*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-042116-SSH-16001
Date Collected: 04/21/16 10:00
Date Received: 04/23/16 09:30

Lab Sample ID: 240-63893-1
Matrix: Solid
Percent Solids: 96.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	200	U	200	73	ug/Kg	☼	04/26/16 12:17	04/28/16 11:25	1
Aroclor-1221	200	U	200	98	ug/Kg	☼	04/26/16 12:17	04/28/16 11:25	1
Aroclor-1232	200	U	200	120	ug/Kg	☼	04/26/16 12:17	04/28/16 11:25	1
Aroclor-1242	200	U	200	67	ug/Kg	☼	04/26/16 12:17	04/28/16 11:25	1
Aroclor-1248	**220**		200	49	ug/Kg	☼	04/26/16 12:17	04/28/16 11:25	1
Aroclor-1254	200	U	200	86	ug/Kg	☼	04/26/16 12:17	04/28/16 11:25	1
Aroclor-1260	200	U	200	55	ug/Kg	☼	04/26/16 12:17	04/28/16 11:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*76*		*14 - 128*	*04/26/16 12:17*	*04/28/16 11:25*	*1*
DCB Decachlorobiphenyl	*91*		*10 - 132*	*04/26/16 12:17*	*04/28/16 11:25*	*1*

Client: GHD Services Inc.
Project/Site: 7878-T01, RACER SMI

TestAmerica Job ID: 240-63893-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-042116-SSH-16002
Date Collected: 04/21/16 10:45
Date Received: 04/23/16 09:30

Lab Sample ID: 240-63893-2
Matrix: Solid
Percent Solids: 94.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	210	U	210	75	ug/Kg	☼	04/26/16 12:17	04/28/16 11:06	1
Aroclor-1221	210	U	210	100	ug/Kg	☼	04/26/16 12:17	04/28/16 11:06	1
Aroclor-1232	210	U	210	120	ug/Kg	☼	04/26/16 12:17	04/28/16 11:06	1
Aroclor-1242	210	U	210	69	ug/Kg	☼	04/26/16 12:17	04/28/16 11:06	1
Aroclor-1248	210	U	210	50	ug/Kg	☼	04/26/16 12:17	04/28/16 11:06	1
Aroclor-1254	**280**		210	87	ug/Kg	☼	04/26/16 12:17	04/28/16 11:06	1
Aroclor-1260	210	U	210	56	ug/Kg	☼	04/26/16 12:17	04/28/16 11:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*109*		*14 - 128*	*04/26/16 12:17*	*04/28/16 11:06*	*1*
DCB Decachlorobiphenyl	*124*		*10 - 132*	*04/26/16 12:17*	*04/28/16 11:06*	*1*

Client: GHD Services Inc.
Project/Site: 7878-T01, RACER SMI

TestAmerica Job ID: 240-63893-1

Method: 6010B - Metals (ICP) - TCLP

Client Sample ID: C-7878-042116-SSH-16002
Date Collected: 04/21/16 10:45
Date Received: 04/23/16 09:30

Lab Sample ID: 240-63893-2
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.24**	**J**	10	0.0010	mg/L		04/26/16 12:47	04/27/16 15:46	1
Cadmium	0.10	U	0.10	0.00014	mg/L		04/26/16 12:47	04/27/16 15:46	1
Chromium	**0.0022**	**J B**	0.50	0.00055	mg/L		04/26/16 12:47	04/27/16 15:46	1
Silver	0.50	U	0.50	0.00092	mg/L		04/26/16 12:47	04/27/16 15:46	1
Arsenic	**0.0067**	**J**	0.50	0.0029	mg/L		04/26/16 12:47	04/27/16 15:46	1
Lead	**0.0024**	**J**	0.50	0.0019	mg/L		04/26/16 12:47	04/27/16 15:46	1
Selenium	0.25	U	0.25	0.0040	mg/L		04/26/16 12:47	04/27/16 15:46	1

Client: GHD Services Inc.
Project/Site: 7878-T01, RACER SMI

TestAmerica Job ID: 240-63893-1

Method: 7470A - Mercury (CVAA) - TCLP

Client Sample ID: C-7878-042116-SSH-16002
Date Collected: 04/21/16 10:45
Date Received: 04/23/16 09:30

Lab Sample ID: 240-63893-2
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0020	U	0.0020	0.000090	mg/L		04/26/16 12:00	04/27/16 11:35	1

Client: GHD Services Inc.
Project/Site: 7878-T01, RACER SMI

TestAmerica Job ID: 240-63893-1

General Chemistry

Client Sample ID: C-7878-042116-SSH-16001
Date Collected: 04/21/16 10:00
Date Received: 04/23/16 09:30

Lab Sample ID: 240-63893-1
Matrix: Solid
Percent Solids: 96.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96.5		0.1	0.1	%			04/26/16 12:42	1
Percent Moisture	3.5		0.1	0.1	%			04/26/16 12:42	1

Client: GHD Services Inc.
Project/Site: 7878-T01, RACER SMI

TestAmerica Job ID: 240-63893-1

General Chemistry

Client Sample ID: C-7878-042116-SSH-16002
Date Collected: 04/21/16 10:45
Date Received: 04/23/16 09:30

Lab Sample ID: 240-63893-2
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	94.9		0.1	0.1	%			04/26/16 12:42	1
Percent Moisture	5.1		0.1	0.1	%			04/26/16 12:42	1

QC Association Summary

Client: GHD Services Inc.
Project/Site: 7878-T01, RACER SMI

TestAmerica Job ID: 240-63893-1

GC/MS VOA

Leach Batch: 227470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-63893-2	C-7878-042116-SSH-16002	TCLP	Solid	Part Size Red	

Leach Batch: 227728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-63893-2	C-7878-042116-SSH-16002	TCLP	Solid	1311	227470
LB 240-227728/1-A MB	Method Blank	TCLP	Solid	1311	

Analysis Batch: 228025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-63893-2	C-7878-042116-SSH-16002	TCLP	Solid	8260B	227728
LB 240-227728/1-A MB	Method Blank	TCLP	Solid	8260B	227728
LCS 240-228025/9	Lab Control Sample	Total/NA	Solid	8260B	

GC Semi VOA

Processed Batch: 227469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-63893-1	C-7878-042116-SSH-16001	Total/NA	Solid	Part Size Red	
240-63893-2	C-7878-042116-SSH-16002	Total/NA	Solid	Part Size Red	

Prep Batch: 227538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-63893-1	C-7878-042116-SSH-16001	Total/NA	Solid	3540C	227469
240-63893-2	C-7878-042116-SSH-16002	Total/NA	Solid	3540C	227469
LCS 240-227538/6-A	Lab Control Sample	Total/NA	Solid	3540C	
MB 240-227538/5-A	Method Blank	Total/NA	Solid	3540C	

Analysis Batch: 227870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-63893-1	C-7878-042116-SSH-16001	Total/NA	Solid	8082	227538
240-63893-2	C-7878-042116-SSH-16002	Total/NA	Solid	8082	227538
LCS 240-227538/6-A	Lab Control Sample	Total/NA	Solid	8082	227538
MB 240-227538/5-A	Method Blank	Total/NA	Solid	8082	227538

Metals

Leach Batch: 227470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-63893-2	C-7878-042116-SSH-16002	TCLP	Solid	Part Size Red	

Leach Batch: 227472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-63893-2	C-7878-042116-SSH-16002	TCLP	Solid	1311	227470
LB 240-227472/1-C	Method Blank	TCLP	Solid	1311	
LB 240-227472/1-D	Method Blank	TCLP	Solid	1311	

Prep Batch: 227590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-63893-2	C-7878-042116-SSH-16002	TCLP	Solid	7470A	227472
LB 240-227472/1-C	Method Blank	TCLP	Solid	7470A	227472

Metals (Continued)

Prep Batch: 227590 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 240-227590/3-A	Lab Control Sample	Total/NA	Solid	7470A	
MB 240-227590/2-A	Method Blank	Total/NA	Solid	7470A	

Prep Batch: 227604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-63893-2	C-7878-042116-SSH-16002	TCLP	Solid	3010A	227472
LB 240-227472/1-D	Method Blank	TCLP	Solid	3010A	227472
LCS 240-227604/3-A	Lab Control Sample	Total/NA	Solid	3010A	
MB 240-227604/2-A	Method Blank	Total/NA	Solid	3010A	

Analysis Batch: 227820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-63893-2	C-7878-042116-SSH-16002	TCLP	Solid	7470A	227590
LB 240-227472/1-C	Method Blank	TCLP	Solid	7470A	227590
LCS 240-227590/3-A	Lab Control Sample	Total/NA	Solid	7470A	227590
MB 240-227590/2-A	Method Blank	Total/NA	Solid	7470A	227590

Analysis Batch: 227908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-63893-2	C-7878-042116-SSH-16002	TCLP	Solid	6010B	227604
LB 240-227472/1-D	Method Blank	TCLP	Solid	6010B	227604
LCS 240-227604/3-A	Lab Control Sample	Total/NA	Solid	6010B	227604
MB 240-227604/2-A	Method Blank	Total/NA	Solid	6010B	227604

General Chemistry

Processed Batch: 227469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-63893-1	C-7878-042116-SSH-16001	Total/NA	Solid	Part Size Red	
240-63893-2	C-7878-042116-SSH-16002	Total/NA	Solid	Part Size Red	

Analysis Batch: 227600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-63893-1	C-7878-042116-SSH-16001	Total/NA	Solid	Moisture	227469
240-63893-2	C-7878-042116-SSH-16002	Total/NA	Solid	Moisture	227469

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

Lab Sample ID: LCS 240-228025/9
Matrix: Solid
Analysis Batch: 228025

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	1.00	1.21		mg/L		121	71 - 133
1,2-Dichloroethane	1.00	1.07		mg/L		107	80 - 120
2-Butanone (MEK)	2.00	1.62		mg/L		81	49 - 120
Benzene	1.00	1.05		mg/L		105	80 - 120
Carbon tetrachloride	1.00	1.14		mg/L		114	54 - 122
Chlorobenzene	1.00	1.02		mg/L		102	80 - 120
Chloroform	1.00	1.09		mg/L		109	80 - 123
Tetrachloroethene	1.00	1.00		mg/L		100	79 - 134
Trichloroethene	1.00	1.08		mg/L		108	78 - 130
Vinyl chloride	1.00	1.17		mg/L		117	56 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*111*		*80 - 121*
4-Bromofluorobenzene (Surr)	*91*		*70 - 124*
Toluene-d8 (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*107*		*80 - 128*

Lab Sample ID: LB 240-227728/1-A MB
Matrix: Solid
Analysis Batch: 228025

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.025	U	0.025	0.0095	mg/L			04/28/16 17:34	1
1,2-Dichloroethane	0.025	U	0.025	0.011	mg/L			04/28/16 17:34	1
2-Butanone (MEK)	0.25	U	0.25	0.029	mg/L			04/28/16 17:34	1
Benzene	0.025	U	0.025	0.0065	mg/L			04/28/16 17:34	1
Carbon tetrachloride	0.025	U	0.025	0.0065	mg/L			04/28/16 17:34	1
Chlorobenzene	0.025	U	0.025	0.0075	mg/L			04/28/16 17:34	1
Chloroform	0.025	U	0.025	0.0080	mg/L			04/28/16 17:34	1
Tetrachloroethene	0.025	U	0.025	0.015	mg/L			04/28/16 17:34	1
Trichloroethene	0.025	U	0.025	0.0085	mg/L			04/28/16 17:34	1
Vinyl chloride	0.025	U	0.025	0.011	mg/L			04/28/16 17:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 121*		*04/28/16 17:34*	*1*
4-Bromofluorobenzene (Surr)	*78*		*70 - 124*		*04/28/16 17:34*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*04/28/16 17:34*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 128*		*04/28/16 17:34*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-227538/5-A
Matrix: Solid
Analysis Batch: 227870

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 227538

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	200	U	200	72	ug/Kg		04/26/16 08:44	04/28/16 12:03	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 240-227538/5-A
Matrix: Solid
Analysis Batch: 227870

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 227538

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1221	200	U	200	96	ug/Kg		04/26/16 08:44	04/28/16 12:03	1
Aroclor-1232	200	U	200	120	ug/Kg		04/26/16 08:44	04/28/16 12:03	1
Aroclor-1242	200	U	200	66	ug/Kg		04/26/16 08:44	04/28/16 12:03	1
Aroclor-1248	200	U	200	48	ug/Kg		04/26/16 08:44	04/28/16 12:03	1
Aroclor-1254	200	U	200	84	ug/Kg		04/26/16 08:44	04/28/16 12:03	1
Aroclor-1260	200	U	200	54	ug/Kg		04/26/16 08:44	04/28/16 12:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*69*		*14 - 128*	*04/26/16 08:44*	*04/28/16 12:03*	*1*
DCB Decachlorobiphenyl	*89*		*10 - 132*	*04/26/16 08:44*	*04/28/16 12:03*	*1*

Lab Sample ID: LCS 240-227538/6-A
Matrix: Solid
Analysis Batch: 227870

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 227538

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	2000	1510		ug/Kg		76	47 - 120
Aroclor-1260	2000	1530		ug/Kg		77	46 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*70*		*14 - 128*
DCB Decachlorobiphenyl	*72*		*10 - 132*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-227604/2-A
Matrix: Solid
Analysis Batch: 227908

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 227604

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	10	U	10	0.0010	mg/L		04/26/16 12:47	04/27/16 15:01	1
Cadmium	0.10	U	0.10	0.00014	mg/L		04/26/16 12:47	04/27/16 15:01	1
Chromium	0.50	U	0.50	0.00055	mg/L		04/26/16 12:47	04/27/16 15:01	1
Silver	0.50	U	0.50	0.00092	mg/L		04/26/16 12:47	04/27/16 15:01	1
Arsenic	0.50	U	0.50	0.0029	mg/L		04/26/16 12:47	04/27/16 15:01	1
Lead	0.50	U	0.50	0.0019	mg/L		04/26/16 12:47	04/27/16 15:01	1
Selenium	0.25	U	0.25	0.0040	mg/L		04/26/16 12:47	04/27/16 15:01	1

Lab Sample ID: LCS 240-227604/3-A
Matrix: Solid
Analysis Batch: 227908

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 227604

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	2.00	2.02	J	mg/L		101	50 - 150
Cadmium	0.0500	0.0527	J	mg/L		105	50 - 150
Chromium	0.200	0.205	J	mg/L		103	50 - 150
Silver	0.0500	0.0509	J	mg/L		102	50 - 150
Arsenic	2.00	2.13		mg/L		107	50 - 150

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 240-227604/3-A
Matrix: Solid
Analysis Batch: 227908

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 227604

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.500	0.499	J	mg/L		100	50 - 150
Selenium	2.00	2.22		mg/L		111	50 - 150

Lab Sample ID: LB 240-227472/1-D
Matrix: Solid
Analysis Batch: 227908

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 227604

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	10	U	10	0.0010	mg/L		04/26/16 12:47	04/27/16 14:57	1
Cadmium	0.10	U	0.10	0.00014	mg/L		04/26/16 12:47	04/27/16 14:57	1
Chromium	0.000913	J	0.50	0.00055	mg/L		04/26/16 12:47	04/27/16 14:57	1
Silver	0.50	U	0.50	0.00092	mg/L		04/26/16 12:47	04/27/16 14:57	1
Arsenic	0.50	U	0.50	0.0029	mg/L		04/26/16 12:47	04/27/16 14:57	1
Lead	0.50	U	0.50	0.0019	mg/L		04/26/16 12:47	04/27/16 14:57	1
Selenium	0.00503	J	0.25	0.0040	mg/L		04/26/16 12:47	04/27/16 14:57	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 240-227590/2-A
Matrix: Solid
Analysis Batch: 227820

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 227590

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0020	U	0.0020	0.000090	mg/L		04/26/16 12:00	04/27/16 11:11	1

Lab Sample ID: LCS 240-227590/3-A
Matrix: Solid
Analysis Batch: 227820

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 227590

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00500	0.00480		mg/L		96	80 - 120

Lab Sample ID: LB 240-227472/1-C
Matrix: Solid
Analysis Batch: 227820

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 227590

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0020	U	0.0020	0.000090	mg/L		04/26/16 12:00	04/27/16 11:13	1

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 7878-T01, RACER SMI

TestAmerica Job ID: 240-63893-1

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(80-121)	(70-124)	(80-120)	(80-128)
LCS 240-228025/9	Lab Control Sample	111	91	101	107

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

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

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(80-121)	(70-124)	(80-120)	(80-128)
240-63893-2	C-7878-042116-SSH-16002	103	85	97	102
LB 240-227728/1-A MB	Method Blank	96	78	91	96

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX2	DCB2
Lab Sample ID	Client Sample ID	(14-128)	(10-132)
240-63893-1	C-7878-042116-SSH-16001	76	91
240-63893-2	C-7878-042116-SSH-16002	109	124
LCS 240-227538/6-A	Lab Control Sample	70	72
MB 240-227538/5-A	Method Blank	69	89

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 7878-T01, RACER SMI

TestAmerica Job ID: 240-63893-1

Client Sample ID: C-7878-042116-SSH-16001
Lab Sample ID: 240-63893-1
Date Collected: 04/21/16 10:00
Matrix: Solid
Date Received: 04/23/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			227469	04/25/16 07:00	RB1	TAL CAN
Total/NA	Analysis	Moisture		1	227600	04/26/16 12:42	DTN	TAL CAN

Client Sample ID: C-7878-042116-SSH-16001
Lab Sample ID: 240-63893-1
Date Collected: 04/21/16 10:00
Matrix: Solid
Date Received: 04/23/16 09:30
Percent Solids: 96.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			227469	04/25/16 07:00	RB1	TAL CAN
Total/NA	Prep	3540C			227538	04/26/16 12:17	YDN	TAL CAN
Total/NA	Analysis	8082		1	227870	04/28/16 11:25	LSH	TAL CAN

Client Sample ID: C-7878-042116-SSH-16002
Lab Sample ID: 240-63893-2
Date Collected: 04/21/16 10:45
Matrix: Solid
Date Received: 04/23/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	Part Size Red			227470	04/25/16 07:00	RB1	TAL CAN
TCLP	Leach	1311			227728	04/26/16 20:45	DRJ	TAL CAN
TCLP	Analysis	8260B		1	228025	04/28/16 18:20	TJL1	TAL CAN
TCLP	Leach	Part Size Red			227470	04/25/16 07:00	RB1	TAL CAN
TCLP	Leach	1311			227472	04/25/16 16:50	DRJ	TAL CAN
TCLP	Prep	3010A			227604	04/26/16 12:47	WKD	TAL CAN
TCLP	Analysis	6010B		1	227908	04/27/16 15:46	RKT	TAL CAN
TCLP	Leach	Part Size Red			227470	04/25/16 07:00	RB1	TAL CAN
TCLP	Leach	1311			227472	04/25/16 16:50	DRJ	TAL CAN
TCLP	Prep	7470A			227590	04/26/16 12:00	WKD	TAL CAN
TCLP	Analysis	7470A		1	227820	04/27/16 11:35	DSH	TAL CAN
Total/NA	Processed	Part Size Red			227469	04/25/16 07:00	RB1	TAL CAN
Total/NA	Analysis	Moisture		1	227600	04/26/16 12:42	DTN	TAL CAN

Client Sample ID: C-7878-042116-SSH-16002
Lab Sample ID: 240-63893-2
Date Collected: 04/21/16 10:45
Matrix: Solid
Date Received: 04/23/16 09:30
Percent Solids: 94.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			227469	04/25/16 07:00	RB1	TAL CAN
Total/NA	Prep	3540C			227538	04/26/16 12:17	YDN	TAL CAN
Total/NA	Analysis	8082		1	227870	04/28/16 11:06	LSH	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 7878-T01, RACER SMI

TestAmerica Job ID: 240-63893-1

Laboratory References:

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

Certification Summary

Client: GHD Services Inc.
Project/Site: 7878-T01, RACER SMI

TestAmerica Job ID: 240-63893-1

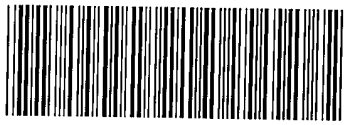
Laboratory: TestAmerica Canton

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	06-30-16 *
Illinois	NELAP	5	200004	07-31-16 *
Kansas	NELAP	7	E-10336	01-31-16 *
Kentucky (UST)	State Program	4	58	02-23-17
Kentucky (WW)	State Program	4	98016	12-31-16
L-A-B	DoD ELAP		L2315	07-18-16
Minnesota	NELAP	5	039-999-348	12-31-16
Nevada	State Program	9	OH-000482008A	07-31-16 *
New Jersey	NELAP	2	OH001	06-30-16 *
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	08-31-16
Texas	NELAP	6	T104704517-15-5	08-31-16
USDA	Federal		P330-13-00319	11-26-16
Virginia	NELAP	3	460175	09-14-16
Washington	State Program	10	C971	01-12-17
West Virginia DEP	State Program	3	210	12-31-16
Wisconsin	State Program	5	999518190	08-31-16

* Certification renewal pending - certification considered valid.

CHAIN OF CUSTODY
AND
RECEIVING DOCUMENTS



240-63893 Chain of Custody

4101 Shuffel Street, N.W. North Canton, OH 44720 tel 330.497.9396 fax 330.497.0772 www.testamericainc.com

TestAmerica Michigan
10448 Citation Drive
Suite 200
Brighton, MI 48116
Phone: 810.229.2763 Fax:

0.8/C0.3

Chain of Custody Record

062832

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: M. Tomka	Site Contact: JE Pardys	Date: 4/21/16	COC No: 062832
Company Name: GHD Services	Tel/Fax: 519 884 0510	Lab Contact: D. Heckler	Carrier: FedEx	1 of 1 COCs
Address: 14496 N. Sheldon Rd Ste 200	Analysis Turnaround Time			Sampler: S. Hoesemeyer
City/State/Zip: Plymouth MI 48170	☐ CALENDAR DAYS ☒ WORKING DAYS			For Lab Use Only:
Phone: 734 453 5123	TAT if different from Below			Walk-in Client:
Fax:	☐ 2 weeks ☒ 1 week ☐ 2 days ☐ 1 day			Lab Sampling:
Project Name: RacoTrust SMI				Job / SDG No.:
Site: SSOW 7878-T01-012				
P O #				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs	TCLP metals	TCLP VOCs	Sample Specific Notes:
C-7878-042116-SSH-16001	4/21/16	1000	G	C	1	NN		X			
C-7878-042116-SSH-16002		1045	G	C	1	NN		X	X	X	
C-7878-0421-SSH-16003		1100	G	C	1	NN		X			Hold
" " -16004		1115	G	C	1	NN		X			Hold
-16005		1130	G	C	1	NN		X			Hold
C-7878-042116-SSH-16006		1145	G	C	1	NN		X			Hold

SSH

Page 25 of 26

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1

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.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: hold samples pending results per GHD

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.: 792540	Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Stan Hoesemeyer	GHD	4/21/16 1600			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
			[illegible]	TAMC	4-23-16 930

5/2/2016

TestAmerica Canton Sample Receipt Form/Narrative Login # : 103893
Canton Facility

Client GHL Site Name _____ Cooler unpacked by: 4. Fenel

Cooler Received on 4-23-16 Opened on 4-23-16

FedEx: 1st Grd (Exp) UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # _____ Foam Box (Client Cooler) Box Other _____

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other _____

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form
   IR GUN# 48 (CF **-1.9** °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
   IR GUN# 36 (CF **-1.5** °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
   IR GUN# I8 (CF **-0.5** °C) Observed Cooler Temp. 0.8 °C Corrected Cooler Temp. 0.3 °C
2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1 (Yes) No
   -Were custody seals on the outside of the cooler(s) signed & dated? (Yes) No NA
   -Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes (No)
3. Shippers' packing slip attached to the cooler(s)? (Yes) No
4. Did custody papers accompany the sample(s)? (Yes) No
5. Were the custody papers relinquished & signed in the appropriate place? (Yes) No
6. Was/were the person(s) who collected the samples clearly identified on the COC? (Yes) No
7. Did all bottles arrive in good condition (Unbroken)? (Yes) No
8. Could all bottle labels be reconciled with the COC? (Yes) No
9. Were correct bottle(s) used for the test(s) indicated? (Yes) No
10. Sufficient quantity received to perform indicated analyses? (Yes) No
11. Are these work share samples? Yes (No)
    If yes, Questions 12-16 have been checked at the originating laboratory.
12. Were sample(s) at the correct pH upon receipt? Yes No (NA) pH Strip Lot# **HC559158**
13. Were VOAs on the COC? Yes (No)
14. Were air bubbles >6 mm in any VOA vials? Yes No (NA)
15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #_____ Yes (No)
16. Was a LL Hg or Me Hg trip blank present? _____ Yes (No)

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by:

18. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

19. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

Ref: SOP NC-SC-0005, Sample Receiving
L:\QAQC\QA Department\QA TARDIS\Document Control\Work Instructions\WI-NC-099X-011816 Cooler Receipt Form.doc djl

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-67660-1
Client Project/Site: 7878, RACER SMI

For:
GHD Services Inc.
14496 Sheldon Road, Suite 200
Plymouth, Michigan 48170

Attn: Rawa Fleisher

Denise D Heckler

Authorized for release by:
8/1/2016 1:11:45 PM

Denise Heckler, Project Manager II
(330)966-9477
denise.heckler@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: 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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Job ID: 240-67660-1

Laboratory: TestAmerica Canton

Narrative

Job Narrative
240-67660-1

Comments
No additional comments.

Receipt
The samples were received on 7/27/2016 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.8º C.

GC Semi VOA
Method(s) 8082: Surrogate DCB Decachlorobiphenyl recovery for the following sample was outside control limits: C-7878-072516-SSH-6023 (240-67660-25). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8082: The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: C-7878-072516-SSH-6044 (240-67660-21), C-7878-072516-SSH-6022 (240-67660-24), C-7878-072516-SSH-6023 (240-67660-25), C-7878-072516-SSH-6015 (240-67660-27), C-7878-072516-SSH-6016 (240-67660-28), (240-67660-B-28-C MS) and (240-67660-B-28-D MSD). 2622263, 2103100, 2283703.

Method(s) 8082: Two surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: C-7878-072516-SSH-6020 (240-67660-32). These results have been reported and qualified.

Method(s) 8082: The following samples appear 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: C-7878-072516-SSH-6018 (240-67660-30), C-7878-072516-SSH-6019 (240-67660-31), C-7878-072516-SSH-6026 (240-67660-35) and C-7878-072516-SSH-6027 (240-67660-36). Due to the poor match with the Aroclor standard, there is increased qualitative and quantitative uncertainty associated with this result.

Method(s) 8082: The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: C-7878-072516-SSH-6026 (240-67660-35), C-7878-072516-SSH-6027 (240-67660-36), C-7878-072516-SSH-6055 (240-67660-41), C-7878-072516-SSH-6056 (240-67660-42), C-7878-072516-SSH-6040 (240-67660-44), C-7878-072516-SSH-6031 (240-67660-46), C-7878-072516-SSH-6036 (240-67660-47), C-7878-072516-SSH-6037 (240-67660-49), C-7878-072516-SSH-6030 (240-67660-53), C-7878-072516-SSH-6038 (240-67660-54) and C-7878-072516-SSH-6051 (240-67660-56). 2622263, 2103100, 2283703.

Method(s) 8082: The following samples appear 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: C-7878-072516-SSH-6055 (240-67660-41), C-7878-072516-SSH-6056 (240-67660-42), C-7878-072516-SSH-6031 (240-67660-46), C-7878-072516-SSH-6053 (240-67660-48) and C-7878-072516-SSH-6038 (240-67660-54). Due to the poor match with the Aroclor standard, there is increased qualitative and quantitative uncertainty associated with this result.

Method(s) 8082: The following samples 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: C-7878-072516-SSH-6037 (240-67660-49) and C-7878-072516-SSH-6030 (240-67660-53). Due to the poor match with the Aroclor standards, there is increased qualitative and quantitative uncertainty associated with this result.

Method(s) 8082: The following samples 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: C-7878-072516-SSH-6000 (240-67660-1), C-7878-072516-SSH-6002 (240-67660-3), C-7878-072516-SSH-6003 (240-67660-4), C-7878-072516-SSH-6004 (240-67660-5), C-7878-072516-SSH-6005 (240-67660-6), C-7878-072516-SSH-6006 (240-67660-7), C-7878-072516-SSH-6007 (240-67660-8), C-7878-072516-SSH-6008 (240-67660-9), C-7878-072516-SSH-6009 (240-67660-10), C-7878-072516-SSH-6010 (240-67660-11), C-7878-072516-SSH-6011 (240-67660-12), C-7878-072516-SSH-6012 (240-67660-13), C-7878-072516-SSH-6013 (240-67660-14), C-7878-072516-SSH-6028 (240-67660-15), C-7878-072516-SSH-6047

Job ID: 240-67660-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

(240-67660-16), C-7878-072516-SSH-6048 (240-67660-17), C-7878-072516-SSH-6049 (240-67660-18), C-7878-072516-SSH-6046 (240-67660-19), C-7878-072516-SSH-6043 (240-67660-20), (240-67660-B-20-C MS) and (240-67660-B-20-D MSD). Due to the poor match with the Aroclor standard, there is increased qualitative and quantitative uncertainty associated with this result.

Method(s) 8082: The following samples 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: C-7878-072516-SSH-6002 (240-67660-3) and C-7878-072516-SSH-6009 (240-67660-10). Due to the poor match with the Aroclor standard(s), there is increased qualitative and quantitative uncertainty associated with this result.

Method(s) 8082: The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: C-7878-072516-SSH-6001 (240-67660-2), C-7878-072516-SSH-6004 (240-67660-5), C-7878-072516-SSH-6005 (240-67660-6), C-7878-072516-SSH-6006 (240-67660-7), C-7878-072516-SSH-6012 (240-67660-13), C-7878-072516-SSH-6013 (240-67660-14), C-7878-072516-SSH-6028 (240-67660-15), C-7878-072516-SSH-6047 (240-67660-16), C-7878-072516-SSH-6048 (240-67660-17), C-7878-072516-SSH-6049 (240-67660-18), C-7878-072516-SSH-6046 (240-67660-19), C-7878-072516-SSH-6043 (240-67660-20), (240-67660-B-20-C MS) and (240-67660-B-20-D MSD). 2622266, 2103098, 2283705.

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

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

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

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
X	Surrogate is outside control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
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
F3	Duplicate RPD exceeds the control limit

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
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)

Sample Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-67660-1	C-7878-072516-SSH-6000	Solid	07/25/16 09:45	07/27/16 09:30
240-67660-2	C-7878-072516-SSH-6001	Solid	07/25/16 09:50	07/27/16 09:30
240-67660-3	C-7878-072516-SSH-6002	Solid	07/25/16 10:55	07/27/16 09:30
240-67660-4	C-7878-072516-SSH-6003	Solid	07/25/16 10:00	07/27/16 09:30
240-67660-5	C-7878-072516-SSH-6004	Solid	07/25/16 10:05	07/27/16 09:30
240-67660-6	C-7878-072516-SSH-6005	Solid	07/25/16 10:10	07/27/16 09:30
240-67660-7	C-7878-072516-SSH-6006	Solid	07/25/16 10:15	07/27/16 09:30
240-67660-8	C-7878-072516-SSH-6007	Solid	07/25/16 10:20	07/27/16 09:30
240-67660-9	C-7878-072516-SSH-6008	Solid	07/25/16 10:25	07/27/16 09:30
240-67660-10	C-7878-072516-SSH-6009	Solid	07/25/16 10:35	07/27/16 09:30
240-67660-11	C-7878-072516-SSH-6010	Solid	07/25/16 10:45	07/27/16 09:30
240-67660-12	C-7878-072516-SSH-6011	Solid	07/25/16 11:00	07/27/16 09:30
240-67660-13	C-7878-072516-SSH-6012	Solid	07/25/16 11:05	07/27/16 09:30
240-67660-14	C-7878-072516-SSH-6013	Solid	07/25/16 11:10	07/27/16 09:30
240-67660-15	C-7878-072516-SSH-6028	Solid	07/25/16 11:15	07/27/16 09:30
240-67660-16	C-7878-072516-SSH-6047	Solid	07/25/16 11:20	07/27/16 09:30
240-67660-17	C-7878-072516-SSH-6048	Solid	07/25/16 11:25	07/27/16 09:30
240-67660-18	C-7878-072516-SSH-6049	Solid	07/25/16 11:30	07/27/16 09:30
240-67660-19	C-7878-072516-SSH-6046	Solid	07/25/16 11:35	07/27/16 09:30
240-67660-20	C-7878-072516-SSH-6043	Solid	07/25/16 11:40	07/27/16 09:30
240-67660-21	C-7878-072516-SSH-6044	Solid	07/25/16 11:45	07/27/16 09:30
240-67660-22	C-7878-072516-SSH-6045	Solid	07/25/16 11:50	07/27/16 09:30
240-67660-23	C-7878-072516-SSH-6021	Solid	07/25/16 11:55	07/27/16 09:30
240-67660-24	C-7878-072516-SSH-6022	Solid	07/25/16 12:00	07/27/16 09:30
240-67660-25	C-7878-072516-SSH-6023	Solid	07/25/16 12:05	07/27/16 09:30
240-67660-26	C-7878-072516-SSH-6014	Solid	07/25/16 12:15	07/27/16 09:30
240-67660-27	C-7878-072516-SSH-6015	Solid	07/25/16 12:20	07/27/16 09:30
240-67660-28	C-7878-072516-SSH-6016	Solid	07/25/16 12:25	07/27/16 09:30
240-67660-29	C-7878-072516-SSH-6017	Solid	07/25/16 12:30	07/27/16 09:30
240-67660-30	C-7878-072516-SSH-6018	Solid	07/25/16 12:35	07/27/16 09:30
240-67660-31	C-7878-072516-SSH-6019	Solid	07/25/16 12:40	07/27/16 09:30
240-67660-32	C-7878-072516-SSH-6020	Solid	07/25/16 12:45	07/27/16 09:30
240-67660-33	C-7878-072516-SSH-6024	Solid	07/25/16 12:50	07/27/16 09:30
240-67660-34	C-7878-072516-SSH-6025	Solid	07/25/16 12:55	07/27/16 09:30
240-67660-35	C-7878-072516-SSH-6026	Solid	07/25/16 13:00	07/27/16 09:30
240-67660-36	C-7878-072516-SSH-6027	Solid	07/25/16 13:05	07/27/16 09:30
240-67660-41	C-7878-072516-SSH-6055	Solid	07/25/16 13:35	07/27/16 09:30
240-67660-42	C-7878-072516-SSH-6056	Solid	07/25/16 13:40	07/27/16 09:30
240-67660-43	C-7878-072516-SSH-6039	Solid	07/25/16 13:45	07/27/16 09:30
240-67660-44	C-7878-072516-SSH-6040	Solid	07/25/16 13:50	07/27/16 09:30
240-67660-46	C-7878-072516-SSH-6031	Solid	07/25/16 14:00	07/27/16 09:30
240-67660-47	C-7878-072516-SSH-6036	Solid	07/25/16 14:05	07/27/16 09:30
240-67660-48	C-7878-072516-SSH-6053	Solid	07/25/16 14:10	07/27/16 09:30
240-67660-49	C-7878-072516-SSH-6037	Solid	07/25/16 14:15	07/27/16 09:30
240-67660-50	C-7878-072516-SSH-6050	Solid	07/25/16 14:20	07/27/16 09:30
240-67660-53	C-7878-072516-SSH-6030	Solid	07/25/16 14:35	07/27/16 09:30
240-67660-54	C-7878-072516-SSH-6038	Solid	07/25/16 14:40	07/27/16 09:30
240-67660-56	C-7878-072516-SSH-6051	Solid	07/25/16 14:50	07/27/16 09:30

Detection Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

Client Sample ID: C-7878-072516-SSH-6000 — Lab Sample ID: 240-67660-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	2200		200	86	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: C-7878-072516-SSH-6001 — Lab Sample ID: 240-67660-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	7300		2000	870	ug/Kg	10	☼	8082	Total/NA

Client Sample ID: C-7878-072516-SSH-6002 — Lab Sample ID: 240-67660-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	610		200	84	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: C-7878-072516-SSH-6003 — Lab Sample ID: 240-67660-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	540		220	91	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: C-7878-072516-SSH-6004 — Lab Sample ID: 240-67660-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	13000		2000	860	ug/Kg	10	☼	8082	Total/NA

Client Sample ID: C-7878-072516-SSH-6005 — Lab Sample ID: 240-67660-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	25000		10000	4400	ug/Kg	50	☼	8082	Total/NA

Client Sample ID: C-7878-072516-SSH-6006 — Lab Sample ID: 240-67660-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	5500		1000	430	ug/Kg	5	☼	8082	Total/NA

Client Sample ID: C-7878-072516-SSH-6007 — Lab Sample ID: 240-67660-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	2600		980	420	ug/Kg	5	☼	8082	Total/NA

Client Sample ID: C-7878-072516-SSH-6008 — Lab Sample ID: 240-67660-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	2800		990	420	ug/Kg	5	☼	8082	Total/NA

Client Sample ID: C-7878-072516-SSH-6009 — Lab Sample ID: 240-67660-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	1300		200	86	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: C-7878-072516-SSH-6010 — Lab Sample ID: 240-67660-11

This Detection Summary does not include radiochemical test results.

Client Sample ID: C-7878-072516-SSH-6010 (Continued) — Lab Sample ID: 240-67660-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	1800		990	420	ug/Kg	5	☼	8082	Total/NA

Client Sample ID: C-7878-072516-SSH-6011 — Lab Sample ID: 240-67660-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	4600		1000	440	ug/Kg	5	☼	8082	Total/NA

Client Sample ID: C-7878-072516-SSH-6012 — Lab Sample ID: 240-67660-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	13000		2000	830	ug/Kg	10	☼	8082	Total/NA

Client Sample ID: C-7878-072516-SSH-6013 — Lab Sample ID: 240-67660-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	7800		2000	840	ug/Kg	10	☼	8082	Total/NA

Client Sample ID: C-7878-072516-SSH-6028 — Lab Sample ID: 240-67660-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	2300		980	420	ug/Kg	5	☼	8082	Total/NA

Client Sample ID: C-7878-072516-SSH-6047 — Lab Sample ID: 240-67660-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	7500		990	420	ug/Kg	5	☼	8082	Total/NA

Client Sample ID: C-7878-072516-SSH-6048 — Lab Sample ID: 240-67660-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	8300		2000	830	ug/Kg	10	☼	8082	Total/NA

Client Sample ID: C-7878-072516-SSH-6049 — Lab Sample ID: 240-67660-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	6000		1000	430	ug/Kg	5	☼	8082	Total/NA

Client Sample ID: C-7878-072516-SSH-6046 — Lab Sample ID: 240-67660-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	5000		990	420	ug/Kg	5	☼	8082	Total/NA

Client Sample ID: C-7878-072516-SSH-6043 — Lab Sample ID: 240-67660-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	7200		2000	840	ug/Kg	10	☼	8082	Total/NA

Client Sample ID: C-7878-072516-SSH-6044 — Lab Sample ID: 240-67660-21

This Detection Summary does not include radiochemical test results.

Client Sample ID: C-7878-072516-SSH-6044 (Continued) — Lab Sample ID: 240-67660-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	11000		1900	820	ug/Kg	10	☼	8082	Total/NA

Client Sample ID: C-7878-072516-SSH-6045 — Lab Sample ID: 240-67660-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	3400		970	410	ug/Kg	5	☼	8082	Total/NA

Client Sample ID: C-7878-072516-SSH-6021 — Lab Sample ID: 240-67660-23

No Detections.

Client Sample ID: C-7878-072516-SSH-6022 — Lab Sample ID: 240-67660-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	1500		200	83	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: C-7878-072516-SSH-6023 — Lab Sample ID: 240-67660-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	1900		190	83	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: C-7878-072516-SSH-6014 — Lab Sample ID: 240-67660-26

No Detections.

Client Sample ID: C-7878-072516-SSH-6015 — Lab Sample ID: 240-67660-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	4300		970	410	ug/Kg	5	☼	8082	Total/NA

Client Sample ID: C-7878-072516-SSH-6016 — Lab Sample ID: 240-67660-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	8500		2000	850	ug/Kg	10	☼	8082	Total/NA

Client Sample ID: C-7878-072516-SSH-6017 — Lab Sample ID: 240-67660-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	110	J	200	83	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: C-7878-072516-SSH-6018 — Lab Sample ID: 240-67660-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	520		200	84	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: C-7878-072516-SSH-6019 — Lab Sample ID: 240-67660-31

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

Client Sample ID: C-7878-072516-SSH-6020 — Lab Sample ID: 240-67660-32

No Detections.

Client Sample ID: C-7878-072516-SSH-6024 — Lab Sample ID: 240-67660-33

No Detections.

Client Sample ID: C-7878-072516-SSH-6025 — Lab Sample ID: 240-67660-34

No Detections.

Client Sample ID: C-7878-072516-SSH-6026 — Lab Sample ID: 240-67660-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	2400		990	420	ug/Kg	5	☼	8082	Total/NA

Client Sample ID: C-7878-072516-SSH-6027 — Lab Sample ID: 240-67660-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	4800		960	410	ug/Kg	5	☼	8082	Total/NA

Client Sample ID: C-7878-072516-SSH-6055 — Lab Sample ID: 240-67660-41

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	650	J	1000	340	ug/Kg	5	☼	8082	Total/NA
Aroclor-1254	4000		1000	430	ug/Kg	5	☼	8082	Total/NA

Client Sample ID: C-7878-072516-SSH-6056 — Lab Sample ID: 240-67660-42

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	6700		4200	1400	ug/Kg	20	☼	8082	Total/NA
Aroclor-1254	33000		4200	1800	ug/Kg	20	☼	8082	Total/NA

Client Sample ID: C-7878-072516-SSH-6039 — Lab Sample ID: 240-67660-43

No Detections.

Client Sample ID: C-7878-072516-SSH-6040 — Lab Sample ID: 240-67660-44

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	11000		2000	860	ug/Kg	10	☼	8082	Total/NA

Client Sample ID: C-7878-072516-SSH-6031 — Lab Sample ID: 240-67660-46

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	5300		2000	650	ug/Kg	10	☼	8082	Total/NA
Aroclor-1254	14000		2000	830	ug/Kg	10	☼	8082	Total/NA

Client Sample ID: C-7878-072516-SSH-6036 — Lab Sample ID: 240-67660-47

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	47000		9900	2400	ug/Kg	50	☼	8082	Total/NA
Aroclor-1260	9200	J	9900	2700	ug/Kg	50	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

Client Sample ID: C-7878-072516-SSH-6053 — Lab Sample ID: 240-67660-48

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	6400		2100	690	ug/Kg	10	☼	8082	Total/NA
Aroclor-1254	19000		2100	880	ug/Kg	10	☼	8082	Total/NA

Client Sample ID: C-7878-072516-SSH-6037 — Lab Sample ID: 240-67660-49

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	14000		4100	1400	ug/Kg	20	☼	8082	Total/NA
Aroclor-1254	22000		4100	1700	ug/Kg	20	☼	8082	Total/NA

Client Sample ID: C-7878-072516-SSH-6050 — Lab Sample ID: 240-67660-50

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	120	J	210	89	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: C-7878-072516-SSH-6030 — Lab Sample ID: 240-67660-53

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	150000		20000	4900	ug/Kg	100	☼	8082	Total/NA
Aroclor-1260	21000		20000	5500	ug/Kg	100	☼	8082	Total/NA

Client Sample ID: C-7878-072516-SSH-6038 — Lab Sample ID: 240-67660-54

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	110000		21000	5100	ug/Kg	100	☼	8082	Total/NA
Aroclor-1260	6400	J	21000	5700	ug/Kg	100	☼	8082	Total/NA

Client Sample ID: C-7878-072516-SSH-6051 — Lab Sample ID: 240-67660-56

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	300		200	67	ug/Kg	1	☼	8082	Total/NA
Aroclor-1254	660		200	86	ug/Kg	1	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
Moisture	Percent Moisture	EPA	TAL CAN

Protocol References:

EPA = US Environmental Protection Agency

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

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-072516-SSH-6000
Date Collected: 07/25/16 09:45
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-1
Matrix: Solid
Percent Solids: 94.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	200	U	200	73	ug/Kg	☼	07/29/16 11:35	07/31/16 15:34	1
Aroclor-1221	200	U	200	98	ug/Kg	☼	07/29/16 11:35	07/31/16 15:34	1
Aroclor-1232	200	U	200	120	ug/Kg	☼	07/29/16 11:35	07/31/16 15:34	1
Aroclor-1242	200	U	200	67	ug/Kg	☼	07/29/16 11:35	07/31/16 15:34	1
Aroclor-1248	200	U	200	49	ug/Kg	☼	07/29/16 11:35	07/31/16 15:34	1
Aroclor-1254	**2200**		200	86	ug/Kg	☼	07/29/16 11:35	07/31/16 15:34	1
Aroclor-1260	200	U	200	55	ug/Kg	☼	07/29/16 11:35	07/31/16 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*70*		*14 - 128*	*07/29/16 11:35*	*07/31/16 15:34*	*1*
DCB Decachlorobiphenyl	*64*		*10 - 132*	*07/29/16 11:35*	*07/31/16 15:34*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-072516-SSH-6001
Date Collected: 07/25/16 09:50
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-2
Matrix: Solid
Percent Solids: 97.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2000	U	2000	740	ug/Kg	☼	07/29/16 11:35	07/31/16 15:52	10
Aroclor-1221	2000	U	2000	990	ug/Kg	☼	07/29/16 11:35	07/31/16 15:52	10
Aroclor-1232	2000	U	2000	1200	ug/Kg	☼	07/29/16 11:35	07/31/16 15:52	10
Aroclor-1242	2000	U	2000	680	ug/Kg	☼	07/29/16 11:35	07/31/16 15:52	10
Aroclor-1248	2000	U	2000	490	ug/Kg	☼	07/29/16 11:35	07/31/16 15:52	10
Aroclor-1254	**7300**		2000	870	ug/Kg	☼	07/29/16 11:35	07/31/16 15:52	10
Aroclor-1260	2000	U	2000	560	ug/Kg	☼	07/29/16 11:35	07/31/16 15:52	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*89*		*14 - 128*	*07/29/16 11:35*	*07/31/16 15:52*	*10*
DCB Decachlorobiphenyl	*98*		*10 - 132*	*07/29/16 11:35*	*07/31/16 15:52*	*10*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-072516-SSH-6002
Date Collected: 07/25/16 10:55
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-3
Matrix: Solid
Percent Solids: 96.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	200	U	200	72	ug/Kg	☼	07/29/16 11:35	07/31/16 16:11	1
Aroclor-1221	200	U	200	96	ug/Kg	☼	07/29/16 11:35	07/31/16 16:11	1
Aroclor-1232	200	U	200	120	ug/Kg	☼	07/29/16 11:35	07/31/16 16:11	1
Aroclor-1242	200	U	200	66	ug/Kg	☼	07/29/16 11:35	07/31/16 16:11	1
Aroclor-1248	200	U	200	48	ug/Kg	☼	07/29/16 11:35	07/31/16 16:11	1
Aroclor-1254	**610**		200	84	ug/Kg	☼	07/29/16 11:35	07/31/16 16:11	1
Aroclor-1260	200	U	200	54	ug/Kg	☼	07/29/16 11:35	07/31/16 16:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*78*		*14 - 128*	*07/29/16 11:35*	*07/31/16 16:11*	*1*
DCB Decachlorobiphenyl	*81*		*10 - 132*	*07/29/16 11:35*	*07/31/16 16:11*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-072516-SSH-6003
Date Collected: 07/25/16 10:00
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-4
Matrix: Solid
Percent Solids: 88.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	220	U	220	78	ug/Kg	☼	07/29/16 11:35	07/31/16 16:30	1
Aroclor-1221	220	U	220	100	ug/Kg	☼	07/29/16 11:35	07/31/16 16:30	1
Aroclor-1232	220	U	220	130	ug/Kg	☼	07/29/16 11:35	07/31/16 16:30	1
Aroclor-1242	220	U	220	72	ug/Kg	☼	07/29/16 11:35	07/31/16 16:30	1
Aroclor-1248	220	U	220	52	ug/Kg	☼	07/29/16 11:35	07/31/16 16:30	1
Aroclor-1254	**540**		220	91	ug/Kg	☼	07/29/16 11:35	07/31/16 16:30	1
Aroclor-1260	220	U	220	59	ug/Kg	☼	07/29/16 11:35	07/31/16 16:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*73*		*14 - 128*	*07/29/16 11:35*	*07/31/16 16:30*	*1*
DCB Decachlorobiphenyl	*60*		*10 - 132*	*07/29/16 11:35*	*07/31/16 16:30*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-072516-SSH-6004
Date Collected: 07/25/16 10:05
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-5
Matrix: Solid
Percent Solids: 97.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2000	U	2000	740	ug/Kg	☼	07/29/16 11:35	07/31/16 16:49	10
Aroclor-1221	2000	U	2000	980	ug/Kg	☼	07/29/16 11:35	07/31/16 16:49	10
Aroclor-1232	2000	U	2000	1200	ug/Kg	☼	07/29/16 11:35	07/31/16 16:49	10
Aroclor-1242	2000	U	2000	680	ug/Kg	☼	07/29/16 11:35	07/31/16 16:49	10
Aroclor-1248	2000	U	2000	490	ug/Kg	☼	07/29/16 11:35	07/31/16 16:49	10
Aroclor-1254	**13000**		2000	860	ug/Kg	☼	07/29/16 11:35	07/31/16 16:49	10
Aroclor-1260	2000	U	2000	550	ug/Kg	☼	07/29/16 11:35	07/31/16 16:49	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*14 - 128*	*07/29/16 11:35*	*07/31/16 16:49*	*10*
DCB Decachlorobiphenyl	*90*		*10 - 132*	*07/29/16 11:35*	*07/31/16 16:49*	*10*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-072516-SSH-6005
Date Collected: 07/25/16 10:10
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-6
Matrix: Solid
Percent Solids: 93.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	10000	U	10000	3800	ug/Kg	☼	07/29/16 11:35	07/31/16 17:08	50
Aroclor-1221	10000	U	10000	5000	ug/Kg	☼	07/29/16 11:35	07/31/16 17:08	50
Aroclor-1232	10000	U	10000	6300	ug/Kg	☼	07/29/16 11:35	07/31/16 17:08	50
Aroclor-1242	10000	U	10000	3500	ug/Kg	☼	07/29/16 11:35	07/31/16 17:08	50
Aroclor-1248	10000	U	10000	2500	ug/Kg	☼	07/29/16 11:35	07/31/16 17:08	50
Aroclor-1254	**25000**		10000	4400	ug/Kg	☼	07/29/16 11:35	07/31/16 17:08	50
Aroclor-1260	10000	U	10000	2800	ug/Kg	☼	07/29/16 11:35	07/31/16 17:08	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*89*		*14 - 128*	*07/29/16 11:35*	*07/31/16 17:08*	*50*
DCB Decachlorobiphenyl	*240*	*X*	*10 - 132*	*07/29/16 11:35*	*07/31/16 17:08*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-072516-SSH-6006
Date Collected: 07/25/16 10:15
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-7
Matrix: Solid
Percent Solids: 95.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	1000	U	1000	370	ug/Kg	☼	07/29/16 11:35	07/31/16 17:27	5
Aroclor-1221	1000	U	1000	490	ug/Kg	☼	07/29/16 11:35	07/31/16 17:27	5
Aroclor-1232	1000	U	1000	620	ug/Kg	☼	07/29/16 11:35	07/31/16 17:27	5
Aroclor-1242	1000	U	1000	340	ug/Kg	☼	07/29/16 11:35	07/31/16 17:27	5
Aroclor-1248	1000	U	1000	250	ug/Kg	☼	07/29/16 11:35	07/31/16 17:27	5
Aroclor-1254	**5500**		1000	430	ug/Kg	☼	07/29/16 11:35	07/31/16 17:27	5
Aroclor-1260	1000	U	1000	280	ug/Kg	☼	07/29/16 11:35	07/31/16 17:27	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*70*		*14 - 128*	*07/29/16 11:35*	*07/31/16 17:27*	*5*
DCB Decachlorobiphenyl	*97*		*10 - 132*	*07/29/16 11:35*	*07/31/16 17:27*	*5*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-072516-SSH-6007
Date Collected: 07/25/16 10:20
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-8
Matrix: Solid
Percent Solids: 97.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	980	U	980	360	ug/Kg	☼	07/29/16 11:35	07/31/16 17:46	5
Aroclor-1221	980	U	980	480	ug/Kg	☼	07/29/16 11:35	07/31/16 17:46	5
Aroclor-1232	980	U	980	590	ug/Kg	☼	07/29/16 11:35	07/31/16 17:46	5
Aroclor-1242	980	U	980	330	ug/Kg	☼	07/29/16 11:35	07/31/16 17:46	5
Aroclor-1248	980	U	980	240	ug/Kg	☼	07/29/16 11:35	07/31/16 17:46	5
Aroclor-1254	**2600**		980	420	ug/Kg	☼	07/29/16 11:35	07/31/16 17:46	5
Aroclor-1260	980	U	980	270	ug/Kg	☼	07/29/16 11:35	07/31/16 17:46	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*85*		*14 - 128*	*07/29/16 11:35*	*07/31/16 17:46*	*5*
DCB Decachlorobiphenyl	*76*		*10 - 132*	*07/29/16 11:35*	*07/31/16 17:46*	*5*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-072516-SSH-6008
Date Collected: 07/25/16 10:25
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-9
Matrix: Solid
Percent Solids: 97.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	990	U	990	360	ug/Kg	☼	07/29/16 11:35	07/31/16 18:05	5
Aroclor-1221	990	U	990	480	ug/Kg	☼	07/29/16 11:35	07/31/16 18:05	5
Aroclor-1232	990	U	990	600	ug/Kg	☼	07/29/16 11:35	07/31/16 18:05	5
Aroclor-1242	990	U	990	330	ug/Kg	☼	07/29/16 11:35	07/31/16 18:05	5
Aroclor-1248	990	U	990	240	ug/Kg	☼	07/29/16 11:35	07/31/16 18:05	5
Aroclor-1254	**2800**		990	420	ug/Kg	☼	07/29/16 11:35	07/31/16 18:05	5
Aroclor-1260	990	U	990	270	ug/Kg	☼	07/29/16 11:35	07/31/16 18:05	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*78*		*14 - 128*	*07/29/16 11:35*	*07/31/16 18:05*	*5*
DCB Decachlorobiphenyl	*77*		*10 - 132*	*07/29/16 11:35*	*07/31/16 18:05*	*5*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-072516-SSH-6009
Date Collected: 07/25/16 10:35
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-10
Matrix: Solid
Percent Solids: 96.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	200	U	200	73	ug/Kg	☼	07/29/16 11:35	07/31/16 18:24	1
Aroclor-1221	200	U	200	98	ug/Kg	☼	07/29/16 11:35	07/31/16 18:24	1
Aroclor-1232	200	U	200	120	ug/Kg	☼	07/29/16 11:35	07/31/16 18:24	1
Aroclor-1242	200	U	200	67	ug/Kg	☼	07/29/16 11:35	07/31/16 18:24	1
Aroclor-1248	200	U	200	49	ug/Kg	☼	07/29/16 11:35	07/31/16 18:24	1
Aroclor-1254	**1300**		200	86	ug/Kg	☼	07/29/16 11:35	07/31/16 18:24	1
Aroclor-1260	200	U	200	55	ug/Kg	☼	07/29/16 11:35	07/31/16 18:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*84*		*14 - 128*	*07/29/16 11:35*	*07/31/16 18:24*	*1*
DCB Decachlorobiphenyl	*85*		*10 - 132*	*07/29/16 11:35*	*07/31/16 18:24*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-072516-SSH-6010
Date Collected: 07/25/16 10:45
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-11
Matrix: Solid
Percent Solids: 98.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	990	U	990	360	ug/Kg	☼	07/29/16 11:35	07/31/16 18:43	5
Aroclor-1221	990	U	990	480	ug/Kg	☼	07/29/16 11:35	07/31/16 18:43	5
Aroclor-1232	990	U	990	600	ug/Kg	☼	07/29/16 11:35	07/31/16 18:43	5
Aroclor-1242	990	U	990	330	ug/Kg	☼	07/29/16 11:35	07/31/16 18:43	5
Aroclor-1248	990	U	990	240	ug/Kg	☼	07/29/16 11:35	07/31/16 18:43	5
Aroclor-1254	**1800**		990	420	ug/Kg	☼	07/29/16 11:35	07/31/16 18:43	5
Aroclor-1260	990	U	990	270	ug/Kg	☼	07/29/16 11:35	07/31/16 18:43	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*83*		*14 - 128*	*07/29/16 11:35*	*07/31/16 18:43*	*5*
DCB Decachlorobiphenyl	*76*		*10 - 132*	*07/29/16 11:35*	*07/31/16 18:43*	*5*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-072516-SSH-6011
Date Collected: 07/25/16 11:00
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-12
Matrix: Solid
Percent Solids: 92.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	1000	U	1000	380	ug/Kg	☼	07/29/16 11:35	07/31/16 19:02	5
Aroclor-1221	1000	U	1000	500	ug/Kg	☼	07/29/16 11:35	07/31/16 19:02	5
Aroclor-1232	1000	U	1000	630	ug/Kg	☼	07/29/16 11:35	07/31/16 19:02	5
Aroclor-1242	1000	U	1000	350	ug/Kg	☼	07/29/16 11:35	07/31/16 19:02	5
Aroclor-1248	1000	U	1000	250	ug/Kg	☼	07/29/16 11:35	07/31/16 19:02	5
Aroclor-1254	**4600**		1000	440	ug/Kg	☼	07/29/16 11:35	07/31/16 19:02	5
Aroclor-1260	1000	U	1000	280	ug/Kg	☼	07/29/16 11:35	07/31/16 19:02	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*14 - 128*	*07/29/16 11:35*	*07/31/16 19:02*	*5*
DCB Decachlorobiphenyl	*77*		*10 - 132*	*07/29/16 11:35*	*07/31/16 19:02*	*5*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-072516-SSH-6012
Date Collected: 07/25/16 11:05
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-13
Matrix: Solid
Percent Solids: 97.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2000	U	2000	710	ug/Kg	☼	07/29/16 11:35	07/31/16 19:21	10
Aroclor-1221	2000	U	2000	950	ug/Kg	☼	07/29/16 11:35	07/31/16 19:21	10
Aroclor-1232	2000	U	2000	1200	ug/Kg	☼	07/29/16 11:35	07/31/16 19:21	10
Aroclor-1242	2000	U	2000	650	ug/Kg	☼	07/29/16 11:35	07/31/16 19:21	10
Aroclor-1248	2000	U	2000	480	ug/Kg	☼	07/29/16 11:35	07/31/16 19:21	10
Aroclor-1254	**13000**		2000	830	ug/Kg	☼	07/29/16 11:35	07/31/16 19:21	10
Aroclor-1260	2000	U	2000	530	ug/Kg	☼	07/29/16 11:35	07/31/16 19:21	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*78*		*14 - 128*	*07/29/16 11:35*	*07/31/16 19:21*	*10*
DCB Decachlorobiphenyl	*175*	*X*	*10 - 132*	*07/29/16 11:35*	*07/31/16 19:21*	*10*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-072516-SSH-6013
Date Collected: 07/25/16 11:10
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-14
Matrix: Solid
Percent Solids: 97.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2000	U	2000	720	ug/Kg	☼	07/29/16 11:35	07/31/16 19:40	10
Aroclor-1221	2000	U	2000	960	ug/Kg	☼	07/29/16 11:35	07/31/16 19:40	10
Aroclor-1232	2000	U	2000	1200	ug/Kg	☼	07/29/16 11:35	07/31/16 19:40	10
Aroclor-1242	2000	U	2000	660	ug/Kg	☼	07/29/16 11:35	07/31/16 19:40	10
Aroclor-1248	2000	U	2000	480	ug/Kg	☼	07/29/16 11:35	07/31/16 19:40	10
Aroclor-1254	**7800**		2000	840	ug/Kg	☼	07/29/16 11:35	07/31/16 19:40	10
Aroclor-1260	2000	U	2000	540	ug/Kg	☼	07/29/16 11:35	07/31/16 19:40	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*81*		*14 - 128*	*07/29/16 11:35*	*07/31/16 19:40*	*10*
DCB Decachlorobiphenyl	*78*		*10 - 132*	*07/29/16 11:35*	*07/31/16 19:40*	*10*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-072516-SSH-6028
Date Collected: 07/25/16 11:15
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-15
Matrix: Solid
Percent Solids: 98.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	980	U	980	360	ug/Kg	☼	07/29/16 11:35	07/31/16 19:59	5
Aroclor-1221	980	U	980	470	ug/Kg	☼	07/29/16 11:35	07/31/16 19:59	5
Aroclor-1232	980	U	980	590	ug/Kg	☼	07/29/16 11:35	07/31/16 19:59	5
Aroclor-1242	980	U	980	330	ug/Kg	☼	07/29/16 11:35	07/31/16 19:59	5
Aroclor-1248	980	U	980	240	ug/Kg	☼	07/29/16 11:35	07/31/16 19:59	5
Aroclor-1254	**2300**		980	420	ug/Kg	☼	07/29/16 11:35	07/31/16 19:59	5
Aroclor-1260	980	U	980	270	ug/Kg	☼	07/29/16 11:35	07/31/16 19:59	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*81*		*14 - 128*	*07/29/16 11:35*	*07/31/16 19:59*	*5*
DCB Decachlorobiphenyl	*88*		*10 - 132*	*07/29/16 11:35*	*07/31/16 19:59*	*5*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-072516-SSH-6047
Date Collected: 07/25/16 11:20
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-16
Matrix: Solid
Percent Solids: 97.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	990	U	990	360	ug/Kg	☼	07/29/16 11:35	07/31/16 20:18	5
Aroclor-1221	990	U	990	480	ug/Kg	☼	07/29/16 11:35	07/31/16 20:18	5
Aroclor-1232	990	U	990	600	ug/Kg	☼	07/29/16 11:35	07/31/16 20:18	5
Aroclor-1242	990	U	990	330	ug/Kg	☼	07/29/16 11:35	07/31/16 20:18	5
Aroclor-1248	990	U	990	240	ug/Kg	☼	07/29/16 11:35	07/31/16 20:18	5
Aroclor-1254	**7500**		990	420	ug/Kg	☼	07/29/16 11:35	07/31/16 20:18	5
Aroclor-1260	990	U	990	270	ug/Kg	☼	07/29/16 11:35	07/31/16 20:18	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*14 - 128*	*07/29/16 11:35*	*07/31/16 20:18*	*5*
DCB Decachlorobiphenyl	*75*		*10 - 132*	*07/29/16 11:35*	*07/31/16 20:18*	*5*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-072516-SSH-6048
Date Collected: 07/25/16 11:25
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-17
Matrix: Solid
Percent Solids: 98.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2000	U	2000	710	ug/Kg	☼	07/29/16 11:35	07/31/16 21:33	10
Aroclor-1221	2000	U	2000	950	ug/Kg	☼	07/29/16 11:35	07/31/16 21:33	10
Aroclor-1232	2000	U	2000	1200	ug/Kg	☼	07/29/16 11:35	07/31/16 21:33	10
Aroclor-1242	2000	U	2000	650	ug/Kg	☼	07/29/16 11:35	07/31/16 21:33	10
Aroclor-1248	2000	U	2000	470	ug/Kg	☼	07/29/16 11:35	07/31/16 21:33	10
Aroclor-1254	**8300**		2000	830	ug/Kg	☼	07/29/16 11:35	07/31/16 21:33	10
Aroclor-1260	2000	U	2000	530	ug/Kg	☼	07/29/16 11:35	07/31/16 21:33	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*77*		*14 - 128*	*07/29/16 11:35*	*07/31/16 21:33*	*10*
DCB Decachlorobiphenyl	*103*		*10 - 132*	*07/29/16 11:35*	*07/31/16 21:33*	*10*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-072516-SSH-6049
Date Collected: 07/25/16 11:30
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-18
Matrix: Solid
Percent Solids: 96.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	1000	U	1000	360	ug/Kg	☼	07/29/16 11:35	07/31/16 21:52	5
Aroclor-1221	1000	U	1000	490	ug/Kg	☼	07/29/16 11:35	07/31/16 21:52	5
Aroclor-1232	1000	U	1000	610	ug/Kg	☼	07/29/16 11:35	07/31/16 21:52	5
Aroclor-1242	1000	U	1000	330	ug/Kg	☼	07/29/16 11:35	07/31/16 21:52	5
Aroclor-1248	1000	U	1000	240	ug/Kg	☼	07/29/16 11:35	07/31/16 21:52	5
Aroclor-1254	**6000**		1000	430	ug/Kg	☼	07/29/16 11:35	07/31/16 21:52	5
Aroclor-1260	1000	U	1000	270	ug/Kg	☼	07/29/16 11:35	07/31/16 21:52	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*14 - 128*	*07/29/16 11:35*	*07/31/16 21:52*	*5*
DCB Decachlorobiphenyl	*80*		*10 - 132*	*07/29/16 11:35*	*07/31/16 21:52*	*5*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-072516-SSH-6046
Date Collected: 07/25/16 11:35
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-19
Matrix: Solid
Percent Solids: 98.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	990	U	990	360	ug/Kg	☼	07/29/16 11:35	07/31/16 22:11	5
Aroclor-1221	990	U	990	480	ug/Kg	☼	07/29/16 11:35	07/31/16 22:11	5
Aroclor-1232	990	U	990	600	ug/Kg	☼	07/29/16 11:35	07/31/16 22:11	5
Aroclor-1242	990	U	990	330	ug/Kg	☼	07/29/16 11:35	07/31/16 22:11	5
Aroclor-1248	990	U	990	240	ug/Kg	☼	07/29/16 11:35	07/31/16 22:11	5
Aroclor-1254	**5000**		990	420	ug/Kg	☼	07/29/16 11:35	07/31/16 22:11	5
Aroclor-1260	990	U	990	270	ug/Kg	☼	07/29/16 11:35	07/31/16 22:11	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*14 - 128*	*07/29/16 11:35*	*07/31/16 22:11*	*5*
DCB Decachlorobiphenyl	*74*		*10 - 132*	*07/29/16 11:35*	*07/31/16 22:11*	*5*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-072516-SSH-6043
Date Collected: 07/25/16 11:40
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-20
Matrix: Solid
Percent Solids: 98.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2000	U F1 F2	2000	720	ug/Kg	☼	07/29/16 11:35	07/31/16 22:30	10
Aroclor-1221	2000	U	2000	960	ug/Kg	☼	07/29/16 11:35	07/31/16 22:30	10
Aroclor-1232	2000	U	2000	1200	ug/Kg	☼	07/29/16 11:35	07/31/16 22:30	10
Aroclor-1242	2000	U	2000	660	ug/Kg	☼	07/29/16 11:35	07/31/16 22:30	10
Aroclor-1248	2000	U	2000	480	ug/Kg	☼	07/29/16 11:35	07/31/16 22:30	10
Aroclor-1254	**7200**		2000	840	ug/Kg	☼	07/29/16 11:35	07/31/16 22:30	10
Aroclor-1260	2000	U F1	2000	540	ug/Kg	☼	07/29/16 11:35	07/31/16 22:30	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*14 - 128*	*07/29/16 11:35*	*07/31/16 22:30*	*10*
DCB Decachlorobiphenyl	*77*		*10 - 132*	*07/29/16 11:35*	*07/31/16 22:30*	*10*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-072516-SSH-6044
Date Collected: 07/25/16 11:45
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-21
Matrix: Solid
Percent Solids: 98.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	1900	U	1900	700	ug/Kg	☼	07/29/16 12:05	08/01/16 02:30	10
Aroclor-1221	1900	U	1900	940	ug/Kg	☼	07/29/16 12:05	08/01/16 02:30	10
Aroclor-1232	1900	U	1900	1200	ug/Kg	☼	07/29/16 12:05	08/01/16 02:30	10
Aroclor-1242	1900	U	1900	640	ug/Kg	☼	07/29/16 12:05	08/01/16 02:30	10
Aroclor-1248	1900	U	1900	470	ug/Kg	☼	07/29/16 12:05	08/01/16 02:30	10
Aroclor-1254	**11000**		1900	820	ug/Kg	☼	07/29/16 12:05	08/01/16 02:30	10
Aroclor-1260	1900	U	1900	530	ug/Kg	☼	07/29/16 12:05	08/01/16 02:30	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*14 - 128*	*07/29/16 12:05*	*08/01/16 02:30*	*10*
DCB Decachlorobiphenyl	*104*		*10 - 132*	*07/29/16 12:05*	*08/01/16 02:30*	*10*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-072516-SSH-6045
Date Collected: 07/25/16 11:50
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-22
Matrix: Solid
Percent Solids: 99.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	970	U	970	350	ug/Kg	☼	07/29/16 12:05	08/01/16 02:49	5
Aroclor-1221	970	U	970	470	ug/Kg	☼	07/29/16 12:05	08/01/16 02:49	5
Aroclor-1232	970	U	970	590	ug/Kg	☼	07/29/16 12:05	08/01/16 02:49	5
Aroclor-1242	970	U	970	320	ug/Kg	☼	07/29/16 12:05	08/01/16 02:49	5
Aroclor-1248	970	U	970	240	ug/Kg	☼	07/29/16 12:05	08/01/16 02:49	5
Aroclor-1254	**3400**		970	410	ug/Kg	☼	07/29/16 12:05	08/01/16 02:49	5
Aroclor-1260	970	U	970	270	ug/Kg	☼	07/29/16 12:05	08/01/16 02:49	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*87*		*14 - 128*	*07/29/16 12:05*	*08/01/16 02:49*	*5*
DCB Decachlorobiphenyl	*115*		*10 - 132*	*07/29/16 12:05*	*08/01/16 02:49*	*5*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-072516-SSH-6021
Date Collected: 07/25/16 11:55
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-23
Matrix: Solid
Percent Solids: 98.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	200	U	200	72	ug/Kg	☼	07/29/16 12:05	08/01/16 03:07	1
Aroclor-1221	200	U	200	96	ug/Kg	☼	07/29/16 12:05	08/01/16 03:07	1
Aroclor-1232	200	U	200	120	ug/Kg	☼	07/29/16 12:05	08/01/16 03:07	1
Aroclor-1242	200	U	200	66	ug/Kg	☼	07/29/16 12:05	08/01/16 03:07	1
Aroclor-1248	200	U	200	48	ug/Kg	☼	07/29/16 12:05	08/01/16 03:07	1
Aroclor-1254	200	U	200	84	ug/Kg	☼	07/29/16 12:05	08/01/16 03:07	1
Aroclor-1260	200	U	200	54	ug/Kg	☼	07/29/16 12:05	08/01/16 03:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*78*		*14 - 128*	*07/29/16 12:05*	*08/01/16 03:07*	*1*
DCB Decachlorobiphenyl	*93*		*10 - 132*	*07/29/16 12:05*	*08/01/16 03:07*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-072516-SSH-6022
Date Collected: 07/25/16 12:00
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-24
Matrix: Solid
Percent Solids: 98.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	200	U	200	72	ug/Kg	☼	07/29/16 12:05	08/01/16 03:25	1
Aroclor-1221	200	U	200	95	ug/Kg	☼	07/29/16 12:05	08/01/16 03:25	1
Aroclor-1232	200	U	200	120	ug/Kg	☼	07/29/16 12:05	08/01/16 03:25	1
Aroclor-1242	200	U	200	66	ug/Kg	☼	07/29/16 12:05	08/01/16 03:25	1
Aroclor-1248	200	U	200	48	ug/Kg	☼	07/29/16 12:05	08/01/16 03:25	1
Aroclor-1254	**1500**		200	83	ug/Kg	☼	07/29/16 12:05	08/01/16 03:25	1
Aroclor-1260	200	U	200	54	ug/Kg	☼	07/29/16 12:05	08/01/16 03:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*14 - 128*	*07/29/16 12:05*	*08/01/16 03:25*	*1*
DCB Decachlorobiphenyl	*114*	*p*	*10 - 132*	*07/29/16 12:05*	*08/01/16 03:25*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-072516-SSH-6023
Date Collected: 07/25/16 12:05
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-25
Matrix: Solid
Percent Solids: 98.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	190	U	190	71	ug/Kg	☼	07/29/16 12:05	08/01/16 03:44	1
Aroclor-1221	190	U	190	94	ug/Kg	☼	07/29/16 12:05	08/01/16 03:44	1
Aroclor-1232	190	U	190	120	ug/Kg	☼	07/29/16 12:05	08/01/16 03:44	1
Aroclor-1242	190	U	190	65	ug/Kg	☼	07/29/16 12:05	08/01/16 03:44	1
Aroclor-1248	190	U	190	47	ug/Kg	☼	07/29/16 12:05	08/01/16 03:44	1
Aroclor-1254	**1900**		190	83	ug/Kg	☼	07/29/16 12:05	08/01/16 03:44	1
Aroclor-1260	190	U	190	53	ug/Kg	☼	07/29/16 12:05	08/01/16 03:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*14 - 128*	*07/29/16 12:05*	*08/01/16 03:44*	*1*
DCB Decachlorobiphenyl	*1653*	*X*	*10 - 132*	*07/29/16 12:05*	*08/01/16 03:44*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-072516-SSH-6014
Date Collected: 07/25/16 12:15
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-26
Matrix: Solid
Percent Solids: 93.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	210	U	210	75	ug/Kg	☼	07/29/16 12:05	08/01/16 04:02	1
Aroclor-1221	210	U	210	100	ug/Kg	☼	07/29/16 12:05	08/01/16 04:02	1
Aroclor-1232	210	U	210	120	ug/Kg	☼	07/29/16 12:05	08/01/16 04:02	1
Aroclor-1242	210	U	210	68	ug/Kg	☼	07/29/16 12:05	08/01/16 04:02	1
Aroclor-1248	210	U	210	50	ug/Kg	☼	07/29/16 12:05	08/01/16 04:02	1
Aroclor-1254	210	U	210	87	ug/Kg	☼	07/29/16 12:05	08/01/16 04:02	1
Aroclor-1260	210	U	210	56	ug/Kg	☼	07/29/16 12:05	08/01/16 04:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*73*		*14 - 128*	*07/29/16 12:05*	*08/01/16 04:02*	*1*
DCB Decachlorobiphenyl	*117*	*p*	*10 - 132*	*07/29/16 12:05*	*08/01/16 04:02*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-072516-SSH-6015
Date Collected: 07/25/16 12:20
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-27
Matrix: Solid
Percent Solids: 98.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	970	U	970	350	ug/Kg	☼	07/29/16 12:05	08/01/16 04:20	5
Aroclor-1221	970	U	970	470	ug/Kg	☼	07/29/16 12:05	08/01/16 04:20	5
Aroclor-1232	970	U	970	590	ug/Kg	☼	07/29/16 12:05	08/01/16 04:20	5
Aroclor-1242	970	U	970	320	ug/Kg	☼	07/29/16 12:05	08/01/16 04:20	5
Aroclor-1248	970	U	970	240	ug/Kg	☼	07/29/16 12:05	08/01/16 04:20	5
Aroclor-1254	**4300**		970	410	ug/Kg	☼	07/29/16 12:05	08/01/16 04:20	5
Aroclor-1260	970	U	970	260	ug/Kg	☼	07/29/16 12:05	08/01/16 04:20	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*76*		*14 - 128*	*07/29/16 12:05*	*08/01/16 04:20*	*5*
DCB Decachlorobiphenyl	*102*	*p*	*10 - 132*	*07/29/16 12:05*	*08/01/16 04:20*	*5*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-072516-SSH-6016
Date Collected: 07/25/16 12:25
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-28
Matrix: Solid
Percent Solids: 97.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2000	U F1	2000	730	ug/Kg	☼	07/29/16 12:05	08/01/16 04:39	10
Aroclor-1221	2000	U	2000	980	ug/Kg	☼	07/29/16 12:05	08/01/16 04:39	10
Aroclor-1232	2000	U	2000	1200	ug/Kg	☼	07/29/16 12:05	08/01/16 04:39	10
Aroclor-1242	2000	U	2000	670	ug/Kg	☼	07/29/16 12:05	08/01/16 04:39	10
Aroclor-1248	2000	U	2000	490	ug/Kg	☼	07/29/16 12:05	08/01/16 04:39	10
Aroclor-1254	**8500**		2000	850	ug/Kg	☼	07/29/16 12:05	08/01/16 04:39	10
Aroclor-1260	2000	U F1	2000	550	ug/Kg	☼	07/29/16 12:05	08/01/16 04:39	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*98*		*14 - 128*	*07/29/16 12:05*	*08/01/16 04:39*	*10*
DCB Decachlorobiphenyl	*170*	*X*	*10 - 132*	*07/29/16 12:05*	*08/01/16 04:39*	*10*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-072516-SSH-6017
Date Collected: 07/25/16 12:30
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-29
Matrix: Solid
Percent Solids: 97.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	200	U	200	71	ug/Kg	☼	07/29/16 11:19	07/31/16 22:31	1
Aroclor-1221	200	U	200	95	ug/Kg	☼	07/29/16 11:19	07/31/16 22:31	1
Aroclor-1232	200	U	200	120	ug/Kg	☼	07/29/16 11:19	07/31/16 22:31	1
Aroclor-1242	200	U	200	65	ug/Kg	☼	07/29/16 11:19	07/31/16 22:31	1
Aroclor-1248	200	U	200	48	ug/Kg	☼	07/29/16 11:19	07/31/16 22:31	1
Aroclor-1254	**110**	**J**	200	83	ug/Kg	☼	07/29/16 11:19	07/31/16 22:31	1
Aroclor-1260	200	U	200	53	ug/Kg	☼	07/29/16 11:19	07/31/16 22:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*82*		*14 - 128*	*07/29/16 11:19*	*07/31/16 22:31*	*1*
DCB Decachlorobiphenyl	*91*		*10 - 132*	*07/29/16 11:19*	*07/31/16 22:31*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-072516-SSH-6018
Date Collected: 07/25/16 12:35
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-30
Matrix: Solid
Percent Solids: 97.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	200	U	200	72	ug/Kg	☼	07/29/16 11:19	07/31/16 15:46	1
Aroclor-1221	200	U	200	96	ug/Kg	☼	07/29/16 11:19	07/31/16 15:46	1
Aroclor-1232	200	U	200	120	ug/Kg	☼	07/29/16 11:19	07/31/16 15:46	1
Aroclor-1242	200	U	200	66	ug/Kg	☼	07/29/16 11:19	07/31/16 15:46	1
Aroclor-1248	200	U	200	48	ug/Kg	☼	07/29/16 11:19	07/31/16 15:46	1
Aroclor-1254	**520**		200	84	ug/Kg	☼	07/29/16 11:19	07/31/16 15:46	1
Aroclor-1260	200	U	200	54	ug/Kg	☼	07/29/16 11:19	07/31/16 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*14 - 128*	*07/29/16 11:19*	*07/31/16 15:46*	*1*
DCB Decachlorobiphenyl	*100*		*10 - 132*	*07/29/16 11:19*	*07/31/16 15:46*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-072516-SSH-6019
Date Collected: 07/25/16 12:40
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-31
Matrix: Solid
Percent Solids: 97.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	200	U	200	74	ug/Kg	☼	07/29/16 11:19	07/31/16 16:05	1
Aroclor-1221	200	U	200	99	ug/Kg	☼	07/29/16 11:19	07/31/16 16:05	1
Aroclor-1232	200	U	200	120	ug/Kg	☼	07/29/16 11:19	07/31/16 16:05	1
Aroclor-1242	200	U	200	68	ug/Kg	☼	07/29/16 11:19	07/31/16 16:05	1
Aroclor-1248	200	U	200	49	ug/Kg	☼	07/29/16 11:19	07/31/16 16:05	1
Aroclor-1254	200	U	200	86	ug/Kg	☼	07/29/16 11:19	07/31/16 16:05	1
Aroclor-1260	200	U	200	56	ug/Kg	☼	07/29/16 11:19	07/31/16 16:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*63*		*14 - 128*	*07/29/16 11:19*	*07/31/16 16:05*	*1*
DCB Decachlorobiphenyl	*80*		*10 - 132*	*07/29/16 11:19*	*07/31/16 16:05*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-072516-SSH-6020
Date Collected: 07/25/16 12:45
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-32
Matrix: Solid
Percent Solids: 97.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	200	U	200	74	ug/Kg	☼	07/29/16 11:19	07/31/16 16:23	1
Aroclor-1221	200	U	200	98	ug/Kg	☼	07/29/16 11:19	07/31/16 16:23	1
Aroclor-1232	200	U	200	120	ug/Kg	☼	07/29/16 11:19	07/31/16 16:23	1
Aroclor-1242	200	U	200	68	ug/Kg	☼	07/29/16 11:19	07/31/16 16:23	1
Aroclor-1248	200	U	200	49	ug/Kg	☼	07/29/16 11:19	07/31/16 16:23	1
Aroclor-1254	200	U	200	86	ug/Kg	☼	07/29/16 11:19	07/31/16 16:23	1
Aroclor-1260	200	U	200	55	ug/Kg	☼	07/29/16 11:19	07/31/16 16:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*106*		*14 - 128*	*07/29/16 11:19*	*07/31/16 16:23*	*1*
DCB Decachlorobiphenyl	*156*	*X*	*10 - 132*	*07/29/16 11:19*	*07/31/16 16:23*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-072516-SSH-6024
Date Collected: 07/25/16 12:50
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-33
Matrix: Solid
Percent Solids: 89.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	210	U	210	77	ug/Kg	☼	07/29/16 11:19	07/31/16 16:41	1
Aroclor-1221	210	U	210	100	ug/Kg	☼	07/29/16 11:19	07/31/16 16:41	1
Aroclor-1232	210	U	210	130	ug/Kg	☼	07/29/16 11:19	07/31/16 16:41	1
Aroclor-1242	210	U	210	71	ug/Kg	☼	07/29/16 11:19	07/31/16 16:41	1
Aroclor-1248	210	U	210	52	ug/Kg	☼	07/29/16 11:19	07/31/16 16:41	1
Aroclor-1254	210	U	210	90	ug/Kg	☼	07/29/16 11:19	07/31/16 16:41	1
Aroclor-1260	210	U	210	58	ug/Kg	☼	07/29/16 11:19	07/31/16 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*84*		*14 - 128*	*07/29/16 11:19*	*07/31/16 16:41*	*1*
DCB Decachlorobiphenyl	*97*		*10 - 132*	*07/29/16 11:19*	*07/31/16 16:41*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-072516-SSH-6025
Date Collected: 07/25/16 12:55
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-34
Matrix: Solid
Percent Solids: 97.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	200	U	200	74	ug/Kg	☼	07/29/16 11:19	07/31/16 17:00	1
Aroclor-1221	200	U	200	98	ug/Kg	☼	07/29/16 11:19	07/31/16 17:00	1
Aroclor-1232	200	U	200	120	ug/Kg	☼	07/29/16 11:19	07/31/16 17:00	1
Aroclor-1242	200	U	200	68	ug/Kg	☼	07/29/16 11:19	07/31/16 17:00	1
Aroclor-1248	200	U	200	49	ug/Kg	☼	07/29/16 11:19	07/31/16 17:00	1
Aroclor-1254	200	U	200	86	ug/Kg	☼	07/29/16 11:19	07/31/16 17:00	1
Aroclor-1260	200	U	200	55	ug/Kg	☼	07/29/16 11:19	07/31/16 17:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*77*		*14 - 128*	*07/29/16 11:19*	*07/31/16 17:00*	*1*
DCB Decachlorobiphenyl	*93*		*10 - 132*	*07/29/16 11:19*	*07/31/16 17:00*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-072516-SSH-6026
Date Collected: 07/25/16 13:00
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-35
Matrix: Solid
Percent Solids: 97.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	990	U	990	360	ug/Kg	☼	07/29/16 11:19	07/31/16 17:18	5
Aroclor-1221	990	U	990	480	ug/Kg	☼	07/29/16 11:19	07/31/16 17:18	5
Aroclor-1232	990	U	990	600	ug/Kg	☼	07/29/16 11:19	07/31/16 17:18	5
Aroclor-1242	990	U	990	330	ug/Kg	☼	07/29/16 11:19	07/31/16 17:18	5
Aroclor-1248	990	U	990	240	ug/Kg	☼	07/29/16 11:19	07/31/16 17:18	5
Aroclor-1254	**2400**		990	420	ug/Kg	☼	07/29/16 11:19	07/31/16 17:18	5
Aroclor-1260	990	U	990	270	ug/Kg	☼	07/29/16 11:19	07/31/16 17:18	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*86*		*14 - 128*	*07/29/16 11:19*	*07/31/16 17:18*	*5*
DCB Decachlorobiphenyl	*103*		*10 - 132*	*07/29/16 11:19*	*07/31/16 17:18*	*5*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-072516-SSH-6027
Date Collected: 07/25/16 13:05
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-36
Matrix: Solid
Percent Solids: 98.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	960	U	960	350	ug/Kg	☼	07/29/16 11:19	07/31/16 17:37	5
Aroclor-1221	960	U	960	470	ug/Kg	☼	07/29/16 11:19	07/31/16 17:37	5
Aroclor-1232	960	U	960	580	ug/Kg	☼	07/29/16 11:19	07/31/16 17:37	5
Aroclor-1242	960	U	960	320	ug/Kg	☼	07/29/16 11:19	07/31/16 17:37	5
Aroclor-1248	960	U	960	230	ug/Kg	☼	07/29/16 11:19	07/31/16 17:37	5
Aroclor-1254	**4800**		960	410	ug/Kg	☼	07/29/16 11:19	07/31/16 17:37	5
Aroclor-1260	960	U	960	260	ug/Kg	☼	07/29/16 11:19	07/31/16 17:37	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*84*		*14 - 128*	*07/29/16 11:19*	*07/31/16 17:37*	*5*
DCB Decachlorobiphenyl	*122*		*10 - 132*	*07/29/16 11:19*	*07/31/16 17:37*	*5*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-072516-SSH-6055
Date Collected: 07/25/16 13:35
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-41
Matrix: Solid
Percent Solids: 96.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	1000	U	1000	370	ug/Kg	☼	07/29/16 11:19	07/31/16 17:55	5
Aroclor-1221	1000	U	1000	490	ug/Kg	☼	07/29/16 11:19	07/31/16 17:55	5
Aroclor-1232	1000	U	1000	610	ug/Kg	☼	07/29/16 11:19	07/31/16 17:55	5
Aroclor-1242	**650**	**J**	1000	340	ug/Kg	☼	07/29/16 11:19	07/31/16 17:55	5
Aroclor-1248	1000	U	1000	240	ug/Kg	☼	07/29/16 11:19	07/31/16 17:55	5
Aroclor-1254	**4000**		1000	430	ug/Kg	☼	07/29/16 11:19	07/31/16 17:55	5
Aroclor-1260	1000	U	1000	280	ug/Kg	☼	07/29/16 11:19	07/31/16 17:55	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*88*		*14 - 128*	*07/29/16 11:19*	*07/31/16 17:55*	*5*
DCB Decachlorobiphenyl	*95*		*10 - 132*	*07/29/16 11:19*	*07/31/16 17:55*	*5*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-072516-SSH-6056
Date Collected: 07/25/16 13:40
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-42
Matrix: Solid
Percent Solids: 96.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	4200	U	4200	1500	ug/Kg	☼	07/29/16 11:19	07/31/16 18:13	20
Aroclor-1221	4200	U	4200	2000	ug/Kg	☼	07/29/16 11:19	07/31/16 18:13	20
Aroclor-1232	4200	U	4200	2500	ug/Kg	☼	07/29/16 11:19	07/31/16 18:13	20
Aroclor-1242	**6700**		4200	1400	ug/Kg	☼	07/29/16 11:19	07/31/16 18:13	20
Aroclor-1248	4200	U	4200	1000	ug/Kg	☼	07/29/16 11:19	07/31/16 18:13	20
Aroclor-1254	**33000**		4200	1800	ug/Kg	☼	07/29/16 11:19	07/31/16 18:13	20
Aroclor-1260	4200	U	4200	1100	ug/Kg	☼	07/29/16 11:19	07/31/16 18:13	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*78*		*14 - 128*	*07/29/16 11:19*	*07/31/16 18:13*	*20*
DCB Decachlorobiphenyl	*112*		*10 - 132*	*07/29/16 11:19*	*07/31/16 18:13*	*20*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-072516-SSH-6039
Date Collected: 07/25/16 13:45
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-43
Matrix: Solid
Percent Solids: 94.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	210	U	210	76	ug/Kg	☼	07/29/16 11:19	07/31/16 18:32	1
Aroclor-1221	210	U	210	100	ug/Kg	☼	07/29/16 11:19	07/31/16 18:32	1
Aroclor-1232	210	U	210	130	ug/Kg	☼	07/29/16 11:19	07/31/16 18:32	1
Aroclor-1242	210	U	210	70	ug/Kg	☼	07/29/16 11:19	07/31/16 18:32	1
Aroclor-1248	210	U	210	51	ug/Kg	☼	07/29/16 11:19	07/31/16 18:32	1
Aroclor-1254	210	U	210	89	ug/Kg	☼	07/29/16 11:19	07/31/16 18:32	1
Aroclor-1260	210	U	210	57	ug/Kg	☼	07/29/16 11:19	07/31/16 18:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*88*		*14 - 128*	*07/29/16 11:19*	*07/31/16 18:32*	*1*
DCB Decachlorobiphenyl	*117*		*10 - 132*	*07/29/16 11:19*	*07/31/16 18:32*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-072516-SSH-6040
Date Collected: 07/25/16 13:50
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-44
Matrix: Solid
Percent Solids: 99.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2000	U	2000	740	ug/Kg	☼	07/29/16 11:19	07/31/16 18:50	10
Aroclor-1221	2000	U	2000	980	ug/Kg	☼	07/29/16 11:19	07/31/16 18:50	10
Aroclor-1232	2000	U	2000	1200	ug/Kg	☼	07/29/16 11:19	07/31/16 18:50	10
Aroclor-1242	2000	U	2000	680	ug/Kg	☼	07/29/16 11:19	07/31/16 18:50	10
Aroclor-1248	2000	U	2000	490	ug/Kg	☼	07/29/16 11:19	07/31/16 18:50	10
Aroclor-1254	**11000**		2000	860	ug/Kg	☼	07/29/16 11:19	07/31/16 18:50	10
Aroclor-1260	2000	U	2000	550	ug/Kg	☼	07/29/16 11:19	07/31/16 18:50	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*78*		*14 - 128*	*07/29/16 11:19*	*07/31/16 18:50*	*10*
DCB Decachlorobiphenyl	*139*	*X*	*10 - 132*	*07/29/16 11:19*	*07/31/16 18:50*	*10*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-072516-SSH-6031
Date Collected: 07/25/16 14:00
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-46
Matrix: Solid
Percent Solids: 98.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2000	U	2000	710	ug/Kg	☼	07/29/16 11:19	07/31/16 19:08	10
Aroclor-1221	2000	U	2000	950	ug/Kg	☼	07/29/16 11:19	07/31/16 19:08	10
Aroclor-1232	2000	U	2000	1200	ug/Kg	☼	07/29/16 11:19	07/31/16 19:08	10
Aroclor-1242	**5300**		2000	650	ug/Kg	☼	07/29/16 11:19	07/31/16 19:08	10
Aroclor-1248	2000	U	2000	480	ug/Kg	☼	07/29/16 11:19	07/31/16 19:08	10
Aroclor-1254	**14000**		2000	830	ug/Kg	☼	07/29/16 11:19	07/31/16 19:08	10
Aroclor-1260	2000	U	2000	530	ug/Kg	☼	07/29/16 11:19	07/31/16 19:08	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*89*		*14 - 128*	*07/29/16 11:19*	*07/31/16 19:08*	*10*
DCB Decachlorobiphenyl	*100*		*10 - 132*	*07/29/16 11:19*	*07/31/16 19:08*	*10*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-072516-SSH-6036
Date Collected: 07/25/16 14:05
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-47
Matrix: Solid
Percent Solids: 98.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	9900	U	9900	3600	ug/Kg	☼	07/29/16 11:19	07/31/16 19:27	50
Aroclor-1221	9900	U	9900	4800	ug/Kg	☼	07/29/16 11:19	07/31/16 19:27	50
Aroclor-1232	9900	U	9900	6000	ug/Kg	☼	07/29/16 11:19	07/31/16 19:27	50
Aroclor-1242	9900	U	9900	3300	ug/Kg	☼	07/29/16 11:19	07/31/16 19:27	50
Aroclor-1248	**47000**		9900	2400	ug/Kg	☼	07/29/16 11:19	07/31/16 19:27	50
Aroclor-1254	9900	U	9900	4200	ug/Kg	☼	07/29/16 11:19	07/31/16 19:27	50
Aroclor-1260	**9200**	**J**	9900	2700	ug/Kg	☼	07/29/16 11:19	07/31/16 19:27	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*14 - 128*	*07/29/16 11:19*	*07/31/16 19:27*	*50*
DCB Decachlorobiphenyl	*130*		*10 - 132*	*07/29/16 11:19*	*07/31/16 19:27*	*50*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-072516-SSH-6053
Date Collected: 07/25/16 14:10
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-48
Matrix: Solid
Percent Solids: 97.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2100	U	2100	760	ug/Kg	☼	07/29/16 11:19	07/31/16 19:45	10
Aroclor-1221	2100	U	2100	1000	ug/Kg	☼	07/29/16 11:19	07/31/16 19:45	10
Aroclor-1232	2100	U	2100	1300	ug/Kg	☼	07/29/16 11:19	07/31/16 19:45	10
Aroclor-1242	**6400**		2100	690	ug/Kg	☼	07/29/16 11:19	07/31/16 19:45	10
Aroclor-1248	2100	U	2100	510	ug/Kg	☼	07/29/16 11:19	07/31/16 19:45	10
Aroclor-1254	**19000**		2100	880	ug/Kg	☼	07/29/16 11:19	07/31/16 19:45	10
Aroclor-1260	2100	U	2100	570	ug/Kg	☼	07/29/16 11:19	07/31/16 19:45	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*100*		*14 - 128*	*07/29/16 11:19*	*07/31/16 19:45*	*10*
DCB Decachlorobiphenyl	*107*		*10 - 132*	*07/29/16 11:19*	*07/31/16 19:45*	*10*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-072516-SSH-6037
Date Collected: 07/25/16 14:15
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-49
Matrix: Solid
Percent Solids: 98.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	4100	U	4100	1500	ug/Kg	☼	07/29/16 11:19	07/31/16 20:04	20
Aroclor-1221	4100	U	4100	2000	ug/Kg	☼	07/29/16 11:19	07/31/16 20:04	20
Aroclor-1232	4100	U	4100	2500	ug/Kg	☼	07/29/16 11:19	07/31/16 20:04	20
Aroclor-1242	**14000**		4100	1400	ug/Kg	☼	07/29/16 11:19	07/31/16 20:04	20
Aroclor-1248	4100	U	4100	990	ug/Kg	☼	07/29/16 11:19	07/31/16 20:04	20
Aroclor-1254	**22000**		4100	1700	ug/Kg	☼	07/29/16 11:19	07/31/16 20:04	20
Aroclor-1260	4100	U	4100	1100	ug/Kg	☼	07/29/16 11:19	07/31/16 20:04	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*81*		*14 - 128*	*07/29/16 11:19*	*07/31/16 20:04*	*20*
DCB Decachlorobiphenyl	*101*		*10 - 132*	*07/29/16 11:19*	*07/31/16 20:04*	*20*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-072516-SSH-6050
Date Collected: 07/25/16 14:20
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-50
Matrix: Solid
Percent Solids: 96.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	210	U	210	76	ug/Kg	☼	07/29/16 11:19	07/31/16 20:22	1
Aroclor-1221	210	U	210	100	ug/Kg	☼	07/29/16 11:19	07/31/16 20:22	1
Aroclor-1232	210	U	210	130	ug/Kg	☼	07/29/16 11:19	07/31/16 20:22	1
Aroclor-1242	210	U p	210	70	ug/Kg	☼	07/29/16 11:19	07/31/16 20:22	1
Aroclor-1248	210	U	210	51	ug/Kg	☼	07/29/16 11:19	07/31/16 20:22	1
Aroclor-1254	**120**	**J**	210	89	ug/Kg	☼	07/29/16 11:19	07/31/16 20:22	1
Aroclor-1260	210	U	210	57	ug/Kg	☼	07/29/16 11:19	07/31/16 20:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*106*		*14 - 128*	*07/29/16 11:19*	*07/31/16 20:22*	*1*
DCB Decachlorobiphenyl	*127*		*10 - 132*	*07/29/16 11:19*	*07/31/16 20:22*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-072516-SSH-6030
Date Collected: 07/25/16 14:35
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-53
Matrix: Solid
Percent Solids: 98.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	20000	U	20000	7300	ug/Kg	☼	07/29/16 11:19	07/31/16 21:36	100
Aroclor-1221	20000	U	20000	9700	ug/Kg	☼	07/29/16 11:19	07/31/16 21:36	100
Aroclor-1232	20000	U	20000	12000	ug/Kg	☼	07/29/16 11:19	07/31/16 21:36	100
Aroclor-1242	20000	U	20000	6700	ug/Kg	☼	07/29/16 11:19	07/31/16 21:36	100
Aroclor-1248	**150000**		20000	4900	ug/Kg	☼	07/29/16 11:19	07/31/16 21:36	100
Aroclor-1254	20000	U	20000	8500	ug/Kg	☼	07/29/16 11:19	07/31/16 21:36	100
Aroclor-1260	**21000**		20000	5500	ug/Kg	☼	07/29/16 11:19	07/31/16 21:36	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*	*p*	*14 - 128*	*07/29/16 11:19*	*07/31/16 21:36*	*100*
DCB Decachlorobiphenyl	*557*	*X*	*10 - 132*	*07/29/16 11:19*	*07/31/16 21:36*	*100*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-072516-SSH-6038
Date Collected: 07/25/16 14:40
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-54
Matrix: Solid
Percent Solids: 97.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	21000	U	21000	7600	ug/Kg	☼	07/29/16 11:19	07/31/16 21:54	100
Aroclor-1221	21000	U	21000	10000	ug/Kg	☼	07/29/16 11:19	07/31/16 21:54	100
Aroclor-1232	21000	U	21000	13000	ug/Kg	☼	07/29/16 11:19	07/31/16 21:54	100
Aroclor-1242	21000	U	21000	7000	ug/Kg	☼	07/29/16 11:19	07/31/16 21:54	100
Aroclor-1248	**110000**		21000	5100	ug/Kg	☼	07/29/16 11:19	07/31/16 21:54	100
Aroclor-1254	21000	U	21000	8900	ug/Kg	☼	07/29/16 11:19	07/31/16 21:54	100
Aroclor-1260	**6400**	**J**	21000	5700	ug/Kg	☼	07/29/16 11:19	07/31/16 21:54	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*93*	*p*	*14 - 128*	*07/29/16 11:19*	*07/31/16 21:54*	*100*
DCB Decachlorobiphenyl	*147*	*X*	*10 - 132*	*07/29/16 11:19*	*07/31/16 21:54*	*100*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-072516-SSH-6051
Date Collected: 07/25/16 14:50
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-56
Matrix: Solid
Percent Solids: 96.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	200	U	200	73	ug/Kg	☼	07/29/16 11:19	07/31/16 22:13	1
Aroclor-1221	200	U	200	98	ug/Kg	☼	07/29/16 11:19	07/31/16 22:13	1
Aroclor-1232	200	U	200	120	ug/Kg	☼	07/29/16 11:19	07/31/16 22:13	1
Aroclor-1242	**300**		200	67	ug/Kg	☼	07/29/16 11:19	07/31/16 22:13	1
Aroclor-1248	200	U	200	49	ug/Kg	☼	07/29/16 11:19	07/31/16 22:13	1
Aroclor-1254	**660**		200	86	ug/Kg	☼	07/29/16 11:19	07/31/16 22:13	1
Aroclor-1260	200	U	200	55	ug/Kg	☼	07/29/16 11:19	07/31/16 22:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*86*		*14 - 128*	*07/29/16 11:19*	*07/31/16 22:13*	*1*
DCB Decachlorobiphenyl	*105*		*10 - 132*	*07/29/16 11:19*	*07/31/16 22:13*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

General Chemistry

Client Sample ID: C-7878-072516-SSH-6000
Date Collected: 07/25/16 09:45
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-1
Matrix: Solid
Percent Solids: 94.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	94.4		0.1	0.1	%			07/28/16 15:32	1
Percent Moisture	5.6		0.1	0.1	%			07/28/16 15:32	1

General Chemistry

Client Sample ID: C-7878-072516-SSH-6001
Date Collected: 07/25/16 09:50
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-2
Matrix: Solid
Percent Solids: 97.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97.0		0.1	0.1	%			07/28/16 15:32	1
Percent Moisture	3.0		0.1	0.1	%			07/28/16 15:32	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

General Chemistry

Client Sample ID: C-7878-072516-SSH-6002
Date Collected: 07/25/16 10:55
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-3
Matrix: Solid
Percent Solids: 96.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96.7		0.1	0.1	%			07/28/16 15:32	1
Percent Moisture	3.3		0.1	0.1	%			07/28/16 15:32	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

General Chemistry

Client Sample ID: C-7878-072516-SSH-6003
Date Collected: 07/25/16 10:00
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-4
Matrix: Solid
Percent Solids: 88.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	88.2		0.1	0.1	%			07/28/16 15:32	1
Percent Moisture	11.8		0.1	0.1	%			07/28/16 15:32	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

General Chemistry

Client Sample ID: C-7878-072516-SSH-6004
Date Collected: 07/25/16 10:05
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-5
Matrix: Solid
Percent Solids: 97.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**97.5**		0.1	0.1	%			07/28/16 15:32	1
Percent Moisture	**2.5**		0.1	0.1	%			07/28/16 15:32	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

General Chemistry

Client Sample ID: C-7878-072516-SSH-6005
Date Collected: 07/25/16 10:10
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-6
Matrix: Solid
Percent Solids: 93.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	93.1		0.1	0.1	%			07/28/16 15:32	1
Percent Moisture	6.9		0.1	0.1	%			07/28/16 15:32	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

General Chemistry

Client Sample ID: C-7878-072516-SSH-6006
Date Collected: 07/25/16 10:15
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-7
Matrix: Solid
Percent Solids: 95.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	95.0		0.1	0.1	%			07/28/16 15:32	1
Percent Moisture	5.0		0.1	0.1	%			07/28/16 15:32	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

General Chemistry

Client Sample ID: C-7878-072516-SSH-6007
Date Collected: 07/25/16 10:20
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-8
Matrix: Solid
Percent Solids: 97.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97.7		0.1	0.1	%			07/28/16 15:32	1
Percent Moisture	2.3		0.1	0.1	%			07/28/16 15:32	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

General Chemistry

Client Sample ID: C-7878-072516-SSH-6008
Date Collected: 07/25/16 10:25
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-9
Matrix: Solid
Percent Solids: 97.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97.9		0.1	0.1	%			07/28/16 15:47	1
Percent Moisture	2.1		0.1	0.1	%			07/28/16 15:47	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

General Chemistry

Client Sample ID: C-7878-072516-SSH-6009
Date Collected: 07/25/16 10:35
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-10
Matrix: Solid
Percent Solids: 96.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96.5		0.1	0.1	%			07/28/16 15:47	1
Percent Moisture	3.5		0.1	0.1	%			07/28/16 15:47	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

General Chemistry

Client Sample ID: C-7878-072516-SSH-6010
Date Collected: 07/25/16 10:45
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-11
Matrix: Solid
Percent Solids: 98.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	98.4		0.1	0.1	%			07/29/16 12:15	1
Percent Moisture	1.6		0.1	0.1	%			07/29/16 12:15	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

General Chemistry

Client Sample ID: C-7878-072516-SSH-6011
Date Collected: 07/25/16 11:00
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-12
Matrix: Solid
Percent Solids: 92.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	92.4		0.1	0.1	%			07/29/16 12:15	1
Percent Moisture	7.6		0.1	0.1	%			07/29/16 12:15	1

General Chemistry

Client Sample ID: C-7878-072516-SSH-6012
Date Collected: 07/25/16 11:05
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-13
Matrix: Solid
Percent Solids: 97.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97.8		0.1	0.1	%			07/29/16 12:15	1
Percent Moisture	2.2		0.1	0.1	%			07/29/16 12:15	1

General Chemistry

Client Sample ID: C-7878-072516-SSH-6013
Date Collected: 07/25/16 11:10
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-14
Matrix: Solid
Percent Solids: 97.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97.8		0.1	0.1	%			07/29/16 12:15	1
Percent Moisture	2.2		0.1	0.1	%			07/29/16 12:15	1

General Chemistry

Client Sample ID: C-7878-072516-SSH-6028
Date Collected: 07/25/16 11:15
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-15
Matrix: Solid
Percent Solids: 98.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	98.4		0.1	0.1	%			07/29/16 12:15	1
Percent Moisture	1.6		0.1	0.1	%			07/29/16 12:15	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

General Chemistry

Client Sample ID: C-7878-072516-SSH-6047
Date Collected: 07/25/16 11:20
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-16
Matrix: Solid
Percent Solids: 97.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97.7		0.1	0.1	%			07/29/16 12:15	1
Percent Moisture	2.3		0.1	0.1	%			07/29/16 12:15	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

General Chemistry

Client Sample ID: C-7878-072516-SSH-6048
Date Collected: 07/25/16 11:25
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-17
Matrix: Solid
Percent Solids: 98.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	98.6		0.1	0.1	%			07/29/16 12:15	1
Percent Moisture	1.4		0.1	0.1	%			07/29/16 12:15	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

General Chemistry

Client Sample ID: C-7878-072516-SSH-6049
Date Collected: 07/25/16 11:30
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-18
Matrix: Solid
Percent Solids: 96.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96.3		0.1	0.1	%			07/29/16 12:15	1
Percent Moisture	3.7		0.1	0.1	%			07/29/16 12:15	1

General Chemistry

Client Sample ID: C-7878-072516-SSH-6046
Date Collected: 07/25/16 11:35
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-19
Matrix: Solid
Percent Solids: 98.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	98.7		0.1	0.1	%			07/29/16 12:15	1
Percent Moisture	1.3		0.1	0.1	%			07/29/16 12:15	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

General Chemistry

Client Sample ID: C-7878-072516-SSH-6043
Date Collected: 07/25/16 11:40
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-20
Matrix: Solid
Percent Solids: 98.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	98.6		0.1	0.1	%			07/29/16 12:15	1
Percent Moisture	1.4		0.1	0.1	%			07/29/16 12:15	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

General Chemistry

Client Sample ID: C-7878-072516-SSH-6044
Date Collected: 07/25/16 11:45
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-21
Matrix: Solid
Percent Solids: 98.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	98.5		0.1	0.1	%			07/29/16 12:15	1
Percent Moisture	1.5		0.1	0.1	%			07/29/16 12:15	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

General Chemistry

Client Sample ID: C-7878-072516-SSH-6045
Date Collected: 07/25/16 11:50
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-22
Matrix: Solid
Percent Solids: 99.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	99.0		0.1	0.1	%			07/29/16 12:15	1
Percent Moisture	1		0.1	0.1	%			07/29/16 12:15	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

General Chemistry

Client Sample ID: C-7878-072516-SSH-6021
Date Collected: 07/25/16 11:55
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-23
Matrix: Solid
Percent Solids: 98.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**98.0**		0.1	0.1	%			07/29/16 12:15	1
Percent Moisture	**2.0**		0.1	0.1	%			07/29/16 12:15	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

General Chemistry

Client Sample ID: C-7878-072516-SSH-6022
Date Collected: 07/25/16 12:00
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-24
Matrix: Solid
Percent Solids: 98.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	98.1		0.1	0.1	%			07/29/16 12:15	1
Percent Moisture	1.9		0.1	0.1	%			07/29/16 12:15	1

General Chemistry

Client Sample ID: C-7878-072516-SSH-6023
Date Collected: 07/25/16 12:05
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-25
Matrix: Solid
Percent Solids: 98.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	98.6		0.1	0.1	%			07/29/16 12:15	1
Percent Moisture	1.4		0.1	0.1	%			07/29/16 12:15	1

General Chemistry

Client Sample ID: C-7878-072516-SSH-6014
Date Collected: 07/25/16 12:15
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-26
Matrix: Solid
Percent Solids: 93.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**93.1**		0.1	0.1	%			07/29/16 12:15	1
Percent Moisture	**6.9**		0.1	0.1	%			07/29/16 12:15	1

General Chemistry

Client Sample ID: C-7878-072516-SSH-6015
Date Collected: 07/25/16 12:20
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-27
Matrix: Solid
Percent Solids: 98.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**98.6**		0.1	0.1	%			07/29/16 12:15	1
Percent Moisture	**1.4**		0.1	0.1	%			07/29/16 12:15	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

General Chemistry

Client Sample ID: C-7878-072516-SSH-6016
Date Collected: 07/25/16 12:25
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-28
Matrix: Solid
Percent Solids: 97.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97.6		0.1	0.1	%			07/29/16 12:15	1
Percent Moisture	2.4		0.1	0.1	%			07/29/16 12:15	1

General Chemistry

Client Sample ID: C-7878-072516-SSH-6017
Date Collected: 07/25/16 12:30
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-29
Matrix: Solid
Percent Solids: 97.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97.9		0.1	0.1	%			07/29/16 12:20	1
Percent Moisture	2.1		0.1	0.1	%			07/29/16 12:20	1

General Chemistry

Client Sample ID: C-7878-072516-SSH-6018
Date Collected: 07/25/16 12:35
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-30
Matrix: Solid
Percent Solids: 97.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**97.3**		0.1	0.1	%			07/29/16 12:20	1
Percent Moisture	**2.7**		0.1	0.1	%			07/29/16 12:20	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

General Chemistry

Client Sample ID: C-7878-072516-SSH-6019
Date Collected: 07/25/16 12:40
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-31
Matrix: Solid
Percent Solids: 97.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**97.3**		0.1	0.1	%			07/29/16 12:09	1
Percent Moisture	**2.7**		0.1	0.1	%			07/29/16 12:09	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

General Chemistry

Client Sample ID: C-7878-072516-SSH-6020
Date Collected: 07/25/16 12:45
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-32
Matrix: Solid
Percent Solids: 97.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97.4		0.1	0.1	%			07/29/16 12:09	1
Percent Moisture	2.6		0.1	0.1	%			07/29/16 12:09	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

General Chemistry

Client Sample ID: C-7878-072516-SSH-6024
Date Collected: 07/25/16 12:50
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-33
Matrix: Solid
Percent Solids: 89.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	89.4		0.1	0.1	%			07/29/16 12:09	1
Percent Moisture	10.6		0.1	0.1	%			07/29/16 12:09	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

General Chemistry

Client Sample ID: C-7878-072516-SSH-6025
Date Collected: 07/25/16 12:55
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-34
Matrix: Solid
Percent Solids: 97.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97.9		0.1	0.1	%			07/29/16 12:09	1
Percent Moisture	2.1		0.1	0.1	%			07/29/16 12:09	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

General Chemistry

Client Sample ID: C-7878-072516-SSH-6026
Date Collected: 07/25/16 13:00
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-35
Matrix: Solid
Percent Solids: 97.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97.7		0.1	0.1	%			07/29/16 12:09	1
Percent Moisture	2.3		0.1	0.1	%			07/29/16 12:09	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

General Chemistry

Client Sample ID: C-7878-072516-SSH-6027
Date Collected: 07/25/16 13:05
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-36
Matrix: Solid
Percent Solids: 98.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	98.7		0.1	0.1	%			07/29/16 12:09	1
Percent Moisture	1.3		0.1	0.1	%			07/29/16 12:09	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

General Chemistry

Client Sample ID: C-7878-072516-SSH-6055
Date Collected: 07/25/16 13:35
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-41
Matrix: Solid
Percent Solids: 96.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96.6		0.1	0.1	%			07/29/16 12:09	1
Percent Moisture	3.4		0.1	0.1	%			07/29/16 12:09	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

General Chemistry

Client Sample ID: C-7878-072516-SSH-6056
Date Collected: 07/25/16 13:40
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-42
Matrix: Solid
Percent Solids: 96.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96.9		0.1	0.1	%			07/29/16 12:09	1
Percent Moisture	3.1		0.1	0.1	%			07/29/16 12:09	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

General Chemistry

Client Sample ID: C-7878-072516-SSH-6039
Date Collected: 07/25/16 13:45
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-43
Matrix: Solid
Percent Solids: 94.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	94.0		0.1	0.1	%			07/29/16 12:09	1
Percent Moisture	6.0		0.1	0.1	%			07/29/16 12:09	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

General Chemistry

Client Sample ID: C-7878-072516-SSH-6040
Date Collected: 07/25/16 13:50
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-44
Matrix: Solid
Percent Solids: 99.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	99.1		0.1	0.1	%			07/29/16 12:09	1
Percent Moisture	0.9		0.1	0.1	%			07/29/16 12:09	1

General Chemistry

Client Sample ID: C-7878-072516-SSH-6031
Date Collected: 07/25/16 14:00
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-46
Matrix: Solid
Percent Solids: 98.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	98.6		0.1	0.1	%			07/29/16 12:09	1
Percent Moisture	1.4		0.1	0.1	%			07/29/16 12:09	1

General Chemistry

Client Sample ID: C-7878-072516-SSH-6036
Date Collected: 07/25/16 14:05
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-47
Matrix: Solid
Percent Solids: 98.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	98.7		0.1	0.1	%			07/29/16 12:09	1
Percent Moisture	1.3		0.1	0.1	%			07/29/16 12:09	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

General Chemistry

Client Sample ID: C-7878-072516-SSH-6053
Date Collected: 07/25/16 14:10
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-48
Matrix: Solid
Percent Solids: 97.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97.7		0.1	0.1	%			07/29/16 12:09	1
Percent Moisture	2.3		0.1	0.1	%			07/29/16 12:09	1

General Chemistry

Client Sample ID: C-7878-072516-SSH-6037
Date Collected: 07/25/16 14:15
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-49
Matrix: Solid
Percent Solids: 98.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	98.3		0.1	0.1	%			07/29/16 12:09	1
Percent Moisture	1.7		0.1	0.1	%			07/29/16 12:09	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

General Chemistry

Client Sample ID: C-7878-072516-SSH-6050
Date Collected: 07/25/16 14:20
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-50
Matrix: Solid
Percent Solids: 96.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96.2		0.1	0.1	%			07/29/16 12:09	1
Percent Moisture	3.8		0.1	0.1	%			07/29/16 12:09	1

General Chemistry

Client Sample ID: C-7878-072516-SSH-6030
Date Collected: 07/25/16 14:35
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-53
Matrix: Solid
Percent Solids: 98.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**98.0**		0.1	0.1	%			07/29/16 12:09	1
Percent Moisture	**2.0**		0.1	0.1	%			07/29/16 12:09	1

General Chemistry

Client Sample ID: C-7878-072516-SSH-6038
Date Collected: 07/25/16 14:40
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-54
Matrix: Solid
Percent Solids: 97.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97.8		0.1	0.1	%			07/29/16 12:09	1
Percent Moisture	2.2		0.1	0.1	%			07/29/16 12:09	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

General Chemistry

Client Sample ID: C-7878-072516-SSH-6051
Date Collected: 07/25/16 14:50
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-56
Matrix: Solid
Percent Solids: 96.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96.6		0.1	0.1	%			07/29/16 12:09	1
Percent Moisture	3.4		0.1	0.1	%			07/29/16 12:09	1

GC Semi VOA

Processed Batch: 240290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-67660-1	C-7878-072516-SSH-6000	Total/NA	Solid	Part Size Red	
240-67660-2	C-7878-072516-SSH-6001	Total/NA	Solid	Part Size Red	
240-67660-3	C-7878-072516-SSH-6002	Total/NA	Solid	Part Size Red	
240-67660-4	C-7878-072516-SSH-6003	Total/NA	Solid	Part Size Red	
240-67660-5	C-7878-072516-SSH-6004	Total/NA	Solid	Part Size Red	
240-67660-6	C-7878-072516-SSH-6005	Total/NA	Solid	Part Size Red	
240-67660-7	C-7878-072516-SSH-6006	Total/NA	Solid	Part Size Red	
240-67660-8	C-7878-072516-SSH-6007	Total/NA	Solid	Part Size Red	
240-67660-9	C-7878-072516-SSH-6008	Total/NA	Solid	Part Size Red	
240-67660-10	C-7878-072516-SSH-6009	Total/NA	Solid	Part Size Red	

Processed Batch: 240340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-67660-11	C-7878-072516-SSH-6010	Total/NA	Solid	Part Size Red	
240-67660-12	C-7878-072516-SSH-6011	Total/NA	Solid	Part Size Red	
240-67660-13	C-7878-072516-SSH-6012	Total/NA	Solid	Part Size Red	
240-67660-14	C-7878-072516-SSH-6013	Total/NA	Solid	Part Size Red	
240-67660-15	C-7878-072516-SSH-6028	Total/NA	Solid	Part Size Red	
240-67660-16	C-7878-072516-SSH-6047	Total/NA	Solid	Part Size Red	
240-67660-17	C-7878-072516-SSH-6048	Total/NA	Solid	Part Size Red	
240-67660-18	C-7878-072516-SSH-6049	Total/NA	Solid	Part Size Red	
240-67660-19	C-7878-072516-SSH-6046	Total/NA	Solid	Part Size Red	
240-67660-20	C-7878-072516-SSH-6043	Total/NA	Solid	Part Size Red	
240-67660-21	C-7878-072516-SSH-6044	Total/NA	Solid	Part Size Red	
240-67660-22	C-7878-072516-SSH-6045	Total/NA	Solid	Part Size Red	
240-67660-23	C-7878-072516-SSH-6021	Total/NA	Solid	Part Size Red	
240-67660-24	C-7878-072516-SSH-6022	Total/NA	Solid	Part Size Red	
240-67660-25	C-7878-072516-SSH-6023	Total/NA	Solid	Part Size Red	
240-67660-26	C-7878-072516-SSH-6014	Total/NA	Solid	Part Size Red	
240-67660-27	C-7878-072516-SSH-6015	Total/NA	Solid	Part Size Red	
240-67660-28	C-7878-072516-SSH-6016	Total/NA	Solid	Part Size Red	
240-67660-29	C-7878-072516-SSH-6017	Total/NA	Solid	Part Size Red	
240-67660-30	C-7878-072516-SSH-6018	Total/NA	Solid	Part Size Red	
240-67660-31	C-7878-072516-SSH-6019	Total/NA	Solid	Part Size Red	
240-67660-32	C-7878-072516-SSH-6020	Total/NA	Solid	Part Size Red	
240-67660-33	C-7878-072516-SSH-6024	Total/NA	Solid	Part Size Red	
240-67660-34	C-7878-072516-SSH-6025	Total/NA	Solid	Part Size Red	
240-67660-35	C-7878-072516-SSH-6026	Total/NA	Solid	Part Size Red	
240-67660-36	C-7878-072516-SSH-6027	Total/NA	Solid	Part Size Red	
240-67660-41	C-7878-072516-SSH-6055	Total/NA	Solid	Part Size Red	
240-67660-42	C-7878-072516-SSH-6056	Total/NA	Solid	Part Size Red	
240-67660-43	C-7878-072516-SSH-6039	Total/NA	Solid	Part Size Red	
240-67660-44	C-7878-072516-SSH-6040	Total/NA	Solid	Part Size Red	
240-67660-46	C-7878-072516-SSH-6031	Total/NA	Solid	Part Size Red	
240-67660-47	C-7878-072516-SSH-6036	Total/NA	Solid	Part Size Red	
240-67660-48	C-7878-072516-SSH-6053	Total/NA	Solid	Part Size Red	
240-67660-49	C-7878-072516-SSH-6037	Total/NA	Solid	Part Size Red	
240-67660-50	C-7878-072516-SSH-6050	Total/NA	Solid	Part Size Red	
240-67660-53	C-7878-072516-SSH-6030	Total/NA	Solid	Part Size Red	
240-67660-54	C-7878-072516-SSH-6038	Total/NA	Solid	Part Size Red	
240-67660-56	C-7878-072516-SSH-6051	Total/NA	Solid	Part Size Red	

GC Semi VOA (Continued)

Processed Batch: 240340 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-67660-20 MS	C-7878-072516-SSH-6043	Total/NA	Solid	Part Size Red	
240-67660-20 MSD	C-7878-072516-SSH-6043	Total/NA	Solid	Part Size Red	
240-67660-28 MS	C-7878-072516-SSH-6016	Total/NA	Solid	Part Size Red	
240-67660-28 MSD	C-7878-072516-SSH-6016	Total/NA	Solid	Part Size Red	
240-67660-29 MS	C-7878-072516-SSH-6017	Total/NA	Solid	Part Size Red	
240-67660-29 MSD	C-7878-072516-SSH-6017	Total/NA	Solid	Part Size Red	

Prep Batch: 240435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-67660-29	C-7878-072516-SSH-6017	Total/NA	Solid	3540C	240340
240-67660-30	C-7878-072516-SSH-6018	Total/NA	Solid	3540C	240340
240-67660-31	C-7878-072516-SSH-6019	Total/NA	Solid	3540C	240340
240-67660-32	C-7878-072516-SSH-6020	Total/NA	Solid	3540C	240340
240-67660-33	C-7878-072516-SSH-6024	Total/NA	Solid	3540C	240340
240-67660-34	C-7878-072516-SSH-6025	Total/NA	Solid	3540C	240340
240-67660-35	C-7878-072516-SSH-6026	Total/NA	Solid	3540C	240340
240-67660-36	C-7878-072516-SSH-6027	Total/NA	Solid	3540C	240340
240-67660-41	C-7878-072516-SSH-6055	Total/NA	Solid	3540C	240340
240-67660-42	C-7878-072516-SSH-6056	Total/NA	Solid	3540C	240340
240-67660-43	C-7878-072516-SSH-6039	Total/NA	Solid	3540C	240340
240-67660-44	C-7878-072516-SSH-6040	Total/NA	Solid	3540C	240340
240-67660-46	C-7878-072516-SSH-6031	Total/NA	Solid	3540C	240340
240-67660-47	C-7878-072516-SSH-6036	Total/NA	Solid	3540C	240340
240-67660-48	C-7878-072516-SSH-6053	Total/NA	Solid	3540C	240340
240-67660-49	C-7878-072516-SSH-6037	Total/NA	Solid	3540C	240340
240-67660-50	C-7878-072516-SSH-6050	Total/NA	Solid	3540C	240340
240-67660-53	C-7878-072516-SSH-6030	Total/NA	Solid	3540C	240340
240-67660-54	C-7878-072516-SSH-6038	Total/NA	Solid	3540C	240340
240-67660-56	C-7878-072516-SSH-6051	Total/NA	Solid	3540C	240340
MB 240-240435/23-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-240435/24-A	Lab Control Sample	Total/NA	Solid	3540C	
240-67660-29 MS	C-7878-072516-SSH-6017	Total/NA	Solid	3540C	240340
240-67660-29 MSD	C-7878-072516-SSH-6017	Total/NA	Solid	3540C	240340

Prep Batch: 240447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-67660-1	C-7878-072516-SSH-6000	Total/NA	Solid	3540C	240290
240-67660-2	C-7878-072516-SSH-6001	Total/NA	Solid	3540C	240290
240-67660-3	C-7878-072516-SSH-6002	Total/NA	Solid	3540C	240290
240-67660-4	C-7878-072516-SSH-6003	Total/NA	Solid	3540C	240290
240-67660-5	C-7878-072516-SSH-6004	Total/NA	Solid	3540C	240290
240-67660-6	C-7878-072516-SSH-6005	Total/NA	Solid	3540C	240290
240-67660-7	C-7878-072516-SSH-6006	Total/NA	Solid	3540C	240290
240-67660-8	C-7878-072516-SSH-6007	Total/NA	Solid	3540C	240290
240-67660-9	C-7878-072516-SSH-6008	Total/NA	Solid	3540C	240290
240-67660-10	C-7878-072516-SSH-6009	Total/NA	Solid	3540C	240290
240-67660-11	C-7878-072516-SSH-6010	Total/NA	Solid	3540C	240340
240-67660-12	C-7878-072516-SSH-6011	Total/NA	Solid	3540C	240340
240-67660-13	C-7878-072516-SSH-6012	Total/NA	Solid	3540C	240340
240-67660-14	C-7878-072516-SSH-6013	Total/NA	Solid	3540C	240340
240-67660-15	C-7878-072516-SSH-6028	Total/NA	Solid	3540C	240340

GC Semi VOA (Continued)

Prep Batch: 240447 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-67660-16	C-7878-072516-SSH-6047	Total/NA	Solid	3540C	240340
240-67660-17	C-7878-072516-SSH-6048	Total/NA	Solid	3540C	240340
240-67660-18	C-7878-072516-SSH-6049	Total/NA	Solid	3540C	240340
240-67660-19	C-7878-072516-SSH-6046	Total/NA	Solid	3540C	240340
240-67660-20	C-7878-072516-SSH-6043	Total/NA	Solid	3540C	240340
MB 240-240447/23-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-240447/24-A	Lab Control Sample	Total/NA	Solid	3540C	
240-67660-20 MS	C-7878-072516-SSH-6043	Total/NA	Solid	3540C	240340
240-67660-20 MSD	C-7878-072516-SSH-6043	Total/NA	Solid	3540C	240340

Prep Batch: 240460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-67660-21	C-7878-072516-SSH-6044	Total/NA	Solid	3540C	240340
240-67660-22	C-7878-072516-SSH-6045	Total/NA	Solid	3540C	240340
240-67660-23	C-7878-072516-SSH-6021	Total/NA	Solid	3540C	240340
240-67660-24	C-7878-072516-SSH-6022	Total/NA	Solid	3540C	240340
240-67660-25	C-7878-072516-SSH-6023	Total/NA	Solid	3540C	240340
240-67660-26	C-7878-072516-SSH-6014	Total/NA	Solid	3540C	240340
240-67660-27	C-7878-072516-SSH-6015	Total/NA	Solid	3540C	240340
240-67660-28	C-7878-072516-SSH-6016	Total/NA	Solid	3540C	240340
MB 240-240460/11-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-240460/12-A	Lab Control Sample	Total/NA	Solid	3540C	
240-67660-28 MS	C-7878-072516-SSH-6016	Total/NA	Solid	3540C	240340
240-67660-28 MSD	C-7878-072516-SSH-6016	Total/NA	Solid	3540C	240340

Analysis Batch: 240555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-67660-1	C-7878-072516-SSH-6000	Total/NA	Solid	8082	240447
240-67660-2	C-7878-072516-SSH-6001	Total/NA	Solid	8082	240447
240-67660-3	C-7878-072516-SSH-6002	Total/NA	Solid	8082	240447
240-67660-4	C-7878-072516-SSH-6003	Total/NA	Solid	8082	240447
240-67660-5	C-7878-072516-SSH-6004	Total/NA	Solid	8082	240447
240-67660-6	C-7878-072516-SSH-6005	Total/NA	Solid	8082	240447
240-67660-7	C-7878-072516-SSH-6006	Total/NA	Solid	8082	240447
240-67660-8	C-7878-072516-SSH-6007	Total/NA	Solid	8082	240447
240-67660-9	C-7878-072516-SSH-6008	Total/NA	Solid	8082	240447
240-67660-10	C-7878-072516-SSH-6009	Total/NA	Solid	8082	240447
240-67660-11	C-7878-072516-SSH-6010	Total/NA	Solid	8082	240447
240-67660-12	C-7878-072516-SSH-6011	Total/NA	Solid	8082	240447
240-67660-13	C-7878-072516-SSH-6012	Total/NA	Solid	8082	240447
240-67660-14	C-7878-072516-SSH-6013	Total/NA	Solid	8082	240447
240-67660-15	C-7878-072516-SSH-6028	Total/NA	Solid	8082	240447
240-67660-16	C-7878-072516-SSH-6047	Total/NA	Solid	8082	240447
240-67660-17	C-7878-072516-SSH-6048	Total/NA	Solid	8082	240447
240-67660-18	C-7878-072516-SSH-6049	Total/NA	Solid	8082	240447
240-67660-19	C-7878-072516-SSH-6046	Total/NA	Solid	8082	240447
240-67660-20	C-7878-072516-SSH-6043	Total/NA	Solid	8082	240447
MB 240-240447/23-A	Method Blank	Total/NA	Solid	8082	240447
LCS 240-240447/24-A	Lab Control Sample	Total/NA	Solid	8082	240447
240-67660-20 MS	C-7878-072516-SSH-6043	Total/NA	Solid	8082	240447
240-67660-20 MSD	C-7878-072516-SSH-6043	Total/NA	Solid	8082	240447

QC Association Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

Analysis Batch: 240561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-67660-29	C-7878-072516-SSH-6017	Total/NA	Solid	8082	240435
240-67660-30	C-7878-072516-SSH-6018	Total/NA	Solid	8082	240435
240-67660-31	C-7878-072516-SSH-6019	Total/NA	Solid	8082	240435
240-67660-32	C-7878-072516-SSH-6020	Total/NA	Solid	8082	240435
240-67660-33	C-7878-072516-SSH-6024	Total/NA	Solid	8082	240435
240-67660-34	C-7878-072516-SSH-6025	Total/NA	Solid	8082	240435
240-67660-35	C-7878-072516-SSH-6026	Total/NA	Solid	8082	240435
240-67660-36	C-7878-072516-SSH-6027	Total/NA	Solid	8082	240435
240-67660-41	C-7878-072516-SSH-6055	Total/NA	Solid	8082	240435
240-67660-42	C-7878-072516-SSH-6056	Total/NA	Solid	8082	240435
240-67660-43	C-7878-072516-SSH-6039	Total/NA	Solid	8082	240435
240-67660-44	C-7878-072516-SSH-6040	Total/NA	Solid	8082	240435
240-67660-46	C-7878-072516-SSH-6031	Total/NA	Solid	8082	240435
240-67660-47	C-7878-072516-SSH-6036	Total/NA	Solid	8082	240435
240-67660-48	C-7878-072516-SSH-6053	Total/NA	Solid	8082	240435
240-67660-49	C-7878-072516-SSH-6037	Total/NA	Solid	8082	240435
240-67660-50	C-7878-072516-SSH-6050	Total/NA	Solid	8082	240435
240-67660-53	C-7878-072516-SSH-6030	Total/NA	Solid	8082	240435
240-67660-54	C-7878-072516-SSH-6038	Total/NA	Solid	8082	240435
240-67660-56	C-7878-072516-SSH-6051	Total/NA	Solid	8082	240435
MB 240-240435/23-A	Method Blank	Total/NA	Solid	8082	240435
LCS 240-240435/24-A	Lab Control Sample	Total/NA	Solid	8082	240435
240-67660-29 MS	C-7878-072516-SSH-6017	Total/NA	Solid	8082	240435
240-67660-29 MSD	C-7878-072516-SSH-6017	Total/NA	Solid	8082	240435

Analysis Batch: 240564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-67660-21	C-7878-072516-SSH-6044	Total/NA	Solid	8082	240460
240-67660-22	C-7878-072516-SSH-6045	Total/NA	Solid	8082	240460
240-67660-23	C-7878-072516-SSH-6021	Total/NA	Solid	8082	240460
240-67660-24	C-7878-072516-SSH-6022	Total/NA	Solid	8082	240460
240-67660-25	C-7878-072516-SSH-6023	Total/NA	Solid	8082	240460
240-67660-26	C-7878-072516-SSH-6014	Total/NA	Solid	8082	240460
240-67660-27	C-7878-072516-SSH-6015	Total/NA	Solid	8082	240460
240-67660-28	C-7878-072516-SSH-6016	Total/NA	Solid	8082	240460
MB 240-240460/11-A	Method Blank	Total/NA	Solid	8082	240460
LCS 240-240460/12-A	Lab Control Sample	Total/NA	Solid	8082	240460
240-67660-28 MS	C-7878-072516-SSH-6016	Total/NA	Solid	8082	240460
240-67660-28 MSD	C-7878-072516-SSH-6016	Total/NA	Solid	8082	240460

General Chemistry

Processed Batch: 240290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-67660-1	C-7878-072516-SSH-6000	Total/NA	Solid	Part Size Red	
240-67660-2	C-7878-072516-SSH-6001	Total/NA	Solid	Part Size Red	
240-67660-3	C-7878-072516-SSH-6002	Total/NA	Solid	Part Size Red	
240-67660-4	C-7878-072516-SSH-6003	Total/NA	Solid	Part Size Red	
240-67660-5	C-7878-072516-SSH-6004	Total/NA	Solid	Part Size Red	
240-67660-6	C-7878-072516-SSH-6005	Total/NA	Solid	Part Size Red	
240-67660-7	C-7878-072516-SSH-6006	Total/NA	Solid	Part Size Red	
240-67660-8	C-7878-072516-SSH-6007	Total/NA	Solid	Part Size Red	
240-67660-9	C-7878-072516-SSH-6008	Total/NA	Solid	Part Size Red	

General Chemistry (Continued)

Processed Batch: 240290 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-67660-10	C-7878-072516-SSH-6009	Total/NA	Solid	Part Size Red	
240-67660-1 DU	C-7878-072516-SSH-6000	Total/NA	Solid	Part Size Red	
240-67660-10 DU	C-7878-072516-SSH-6009	Total/NA	Solid	Part Size Red	

Analysis Batch: 240300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-67660-1	C-7878-072516-SSH-6000	Total/NA	Solid	Moisture	240290
240-67660-2	C-7878-072516-SSH-6001	Total/NA	Solid	Moisture	240290
240-67660-3	C-7878-072516-SSH-6002	Total/NA	Solid	Moisture	240290
240-67660-4	C-7878-072516-SSH-6003	Total/NA	Solid	Moisture	240290
240-67660-5	C-7878-072516-SSH-6004	Total/NA	Solid	Moisture	240290
240-67660-6	C-7878-072516-SSH-6005	Total/NA	Solid	Moisture	240290
240-67660-7	C-7878-072516-SSH-6006	Total/NA	Solid	Moisture	240290
240-67660-8	C-7878-072516-SSH-6007	Total/NA	Solid	Moisture	240290
240-67660-9	C-7878-072516-SSH-6008	Total/NA	Solid	Moisture	240290
240-67660-10	C-7878-072516-SSH-6009	Total/NA	Solid	Moisture	240290
240-67660-1 DU	C-7878-072516-SSH-6000	Total/NA	Solid	Moisture	240290
240-67660-10 DU	C-7878-072516-SSH-6009	Total/NA	Solid	Moisture	240290

Analysis Batch: 240331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-67660-11	C-7878-072516-SSH-6010	Total/NA	Solid	Moisture	240340
240-67660-12	C-7878-072516-SSH-6011	Total/NA	Solid	Moisture	240340
240-67660-13	C-7878-072516-SSH-6012	Total/NA	Solid	Moisture	240340
240-67660-14	C-7878-072516-SSH-6013	Total/NA	Solid	Moisture	240340
240-67660-15	C-7878-072516-SSH-6028	Total/NA	Solid	Moisture	240340
240-67660-16	C-7878-072516-SSH-6047	Total/NA	Solid	Moisture	240340
240-67660-17	C-7878-072516-SSH-6048	Total/NA	Solid	Moisture	240340
240-67660-18	C-7878-072516-SSH-6049	Total/NA	Solid	Moisture	240340
240-67660-19	C-7878-072516-SSH-6046	Total/NA	Solid	Moisture	240340
240-67660-20	C-7878-072516-SSH-6043	Total/NA	Solid	Moisture	240340
240-67660-21	C-7878-072516-SSH-6044	Total/NA	Solid	Moisture	240340
240-67660-22	C-7878-072516-SSH-6045	Total/NA	Solid	Moisture	240340
240-67660-23	C-7878-072516-SSH-6021	Total/NA	Solid	Moisture	240340
240-67660-24	C-7878-072516-SSH-6022	Total/NA	Solid	Moisture	240340
240-67660-25	C-7878-072516-SSH-6023	Total/NA	Solid	Moisture	240340
240-67660-26	C-7878-072516-SSH-6014	Total/NA	Solid	Moisture	240340
240-67660-27	C-7878-072516-SSH-6015	Total/NA	Solid	Moisture	240340
240-67660-28	C-7878-072516-SSH-6016	Total/NA	Solid	Moisture	240340
240-67660-29	C-7878-072516-SSH-6017	Total/NA	Solid	Moisture	240340
240-67660-30	C-7878-072516-SSH-6018	Total/NA	Solid	Moisture	240340
240-67660-31	C-7878-072516-SSH-6019	Total/NA	Solid	Moisture	240340
240-67660-32	C-7878-072516-SSH-6020	Total/NA	Solid	Moisture	240340
240-67660-33	C-7878-072516-SSH-6024	Total/NA	Solid	Moisture	240340
240-67660-34	C-7878-072516-SSH-6025	Total/NA	Solid	Moisture	240340
240-67660-35	C-7878-072516-SSH-6026	Total/NA	Solid	Moisture	240340
240-67660-36	C-7878-072516-SSH-6027	Total/NA	Solid	Moisture	240340
240-67660-41	C-7878-072516-SSH-6055	Total/NA	Solid	Moisture	240340
240-67660-42	C-7878-072516-SSH-6056	Total/NA	Solid	Moisture	240340
240-67660-43	C-7878-072516-SSH-6039	Total/NA	Solid	Moisture	240340
240-67660-44	C-7878-072516-SSH-6040	Total/NA	Solid	Moisture	240340

General Chemistry (Continued)

Analysis Batch: 240331 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-67660-46	C-7878-072516-SSH-6031	Total/NA	Solid	Moisture	240340
240-67660-47	C-7878-072516-SSH-6036	Total/NA	Solid	Moisture	240340
240-67660-48	C-7878-072516-SSH-6053	Total/NA	Solid	Moisture	240340
240-67660-49	C-7878-072516-SSH-6037	Total/NA	Solid	Moisture	240340
240-67660-50	C-7878-072516-SSH-6050	Total/NA	Solid	Moisture	240340
240-67660-53	C-7878-072516-SSH-6030	Total/NA	Solid	Moisture	240340
240-67660-54	C-7878-072516-SSH-6038	Total/NA	Solid	Moisture	240340
240-67660-56	C-7878-072516-SSH-6051	Total/NA	Solid	Moisture	240340
240-67660-11 DU	C-7878-072516-SSH-6010	Total/NA	Solid	Moisture	240340
240-67660-20 DU	C-7878-072516-SSH-6043	Total/NA	Solid	Moisture	240340
240-67660-29 DU	C-7878-072516-SSH-6017	Total/NA	Solid	Moisture	240340
240-67660-31 DU	C-7878-072516-SSH-6019	Total/NA	Solid	Moisture	240340
240-67660-44 DU	C-7878-072516-SSH-6040	Total/NA	Solid	Moisture	240340

Processed Batch: 240340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-67660-11	C-7878-072516-SSH-6010	Total/NA	Solid	Part Size Red	
240-67660-12	C-7878-072516-SSH-6011	Total/NA	Solid	Part Size Red	
240-67660-13	C-7878-072516-SSH-6012	Total/NA	Solid	Part Size Red	
240-67660-14	C-7878-072516-SSH-6013	Total/NA	Solid	Part Size Red	
240-67660-15	C-7878-072516-SSH-6028	Total/NA	Solid	Part Size Red	
240-67660-16	C-7878-072516-SSH-6047	Total/NA	Solid	Part Size Red	
240-67660-17	C-7878-072516-SSH-6048	Total/NA	Solid	Part Size Red	
240-67660-18	C-7878-072516-SSH-6049	Total/NA	Solid	Part Size Red	
240-67660-19	C-7878-072516-SSH-6046	Total/NA	Solid	Part Size Red	
240-67660-20	C-7878-072516-SSH-6043	Total/NA	Solid	Part Size Red	
240-67660-21	C-7878-072516-SSH-6044	Total/NA	Solid	Part Size Red	
240-67660-22	C-7878-072516-SSH-6045	Total/NA	Solid	Part Size Red	
240-67660-23	C-7878-072516-SSH-6021	Total/NA	Solid	Part Size Red	
240-67660-24	C-7878-072516-SSH-6022	Total/NA	Solid	Part Size Red	
240-67660-25	C-7878-072516-SSH-6023	Total/NA	Solid	Part Size Red	
240-67660-26	C-7878-072516-SSH-6014	Total/NA	Solid	Part Size Red	
240-67660-27	C-7878-072516-SSH-6015	Total/NA	Solid	Part Size Red	
240-67660-28	C-7878-072516-SSH-6016	Total/NA	Solid	Part Size Red	
240-67660-29	C-7878-072516-SSH-6017	Total/NA	Solid	Part Size Red	
240-67660-30	C-7878-072516-SSH-6018	Total/NA	Solid	Part Size Red	
240-67660-31	C-7878-072516-SSH-6019	Total/NA	Solid	Part Size Red	
240-67660-32	C-7878-072516-SSH-6020	Total/NA	Solid	Part Size Red	
240-67660-33	C-7878-072516-SSH-6024	Total/NA	Solid	Part Size Red	
240-67660-34	C-7878-072516-SSH-6025	Total/NA	Solid	Part Size Red	
240-67660-35	C-7878-072516-SSH-6026	Total/NA	Solid	Part Size Red	
240-67660-36	C-7878-072516-SSH-6027	Total/NA	Solid	Part Size Red	
240-67660-41	C-7878-072516-SSH-6055	Total/NA	Solid	Part Size Red	
240-67660-42	C-7878-072516-SSH-6056	Total/NA	Solid	Part Size Red	
240-67660-43	C-7878-072516-SSH-6039	Total/NA	Solid	Part Size Red	
240-67660-44	C-7878-072516-SSH-6040	Total/NA	Solid	Part Size Red	
240-67660-46	C-7878-072516-SSH-6031	Total/NA	Solid	Part Size Red	
240-67660-47	C-7878-072516-SSH-6036	Total/NA	Solid	Part Size Red	
240-67660-48	C-7878-072516-SSH-6053	Total/NA	Solid	Part Size Red	
240-67660-49	C-7878-072516-SSH-6037	Total/NA	Solid	Part Size Red	
240-67660-50	C-7878-072516-SSH-6050	Total/NA	Solid	Part Size Red	

General Chemistry (Continued)

Processed Batch: 240340 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-67660-53	C-7878-072516-SSH-6030	Total/NA	Solid	Part Size Red	
240-67660-54	C-7878-072516-SSH-6038	Total/NA	Solid	Part Size Red	
240-67660-56	C-7878-072516-SSH-6051	Total/NA	Solid	Part Size Red	
240-67660-11 DU	C-7878-072516-SSH-6010	Total/NA	Solid	Part Size Red	
240-67660-20 DU	C-7878-072516-SSH-6043	Total/NA	Solid	Part Size Red	
240-67660-29 DU	C-7878-072516-SSH-6017	Total/NA	Solid	Part Size Red	
240-67660-31 DU	C-7878-072516-SSH-6019	Total/NA	Solid	Part Size Red	
240-67660-44 DU	C-7878-072516-SSH-6040	Total/NA	Solid	Part Size Red	

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-240435/23-A
Matrix: Solid
Analysis Batch: 240561

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 240435

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	200	U	200	72	ug/Kg		07/29/16 11:19	07/31/16 20:41	1
Aroclor-1221	200	U	200	96	ug/Kg		07/29/16 11:19	07/31/16 20:41	1
Aroclor-1232	200	U	200	120	ug/Kg		07/29/16 11:19	07/31/16 20:41	1
Aroclor-1242	200	U	200	66	ug/Kg		07/29/16 11:19	07/31/16 20:41	1
Aroclor-1248	200	U	200	48	ug/Kg		07/29/16 11:19	07/31/16 20:41	1
Aroclor-1254	200	U	200	84	ug/Kg		07/29/16 11:19	07/31/16 20:41	1
Aroclor-1260	200	U	200	54	ug/Kg		07/29/16 11:19	07/31/16 20:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*196*	*X*	*14 - 128*	*07/29/16 11:19*	*07/31/16 20:41*	*1*
DCB Decachlorobiphenyl	*82*		*10 - 132*	*07/29/16 11:19*	*07/31/16 20:41*	*1*

Lab Sample ID: LCS 240-240435/24-A
Matrix: Solid
Analysis Batch: 240561

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 240435

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	2000	1510		ug/Kg		76	47 - 120
Aroclor-1260	2000	1540		ug/Kg		77	46 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*138*	*X*	*14 - 128*
DCB Decachlorobiphenyl	*89*		*10 - 132*

Lab Sample ID: 240-67660-29 MS
Matrix: Solid
Analysis Batch: 240561

Client Sample ID: C-7878-072516-SSH-6017
Prep Type: Total/NA
Prep Batch: 240435

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	200	U	2000	1270		ug/Kg	☼	63	31 - 120
Aroclor-1260	200	U	2000	1400		ug/Kg	☼	70	21 - 122

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*76*		*14 - 128*
DCB Decachlorobiphenyl	*82*		*10 - 132*

Lab Sample ID: 240-67660-29 MSD
Matrix: Solid
Analysis Batch: 240561

Client Sample ID: C-7878-072516-SSH-6017
Prep Type: Total/NA
Prep Batch: 240435

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor-1016	200	U	2100	1390		ug/Kg	☼	66	31 - 120	9	30
Aroclor-1260	200	U	2100	1570		ug/Kg	☼	75	21 - 122	12	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*73*		*14 - 128*
DCB Decachlorobiphenyl	*94*		*10 - 132*

Lab Sample ID: MB 240-240447/23-A
Matrix: Solid
Analysis Batch: 240555

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 240447

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	200	U	200	72	ug/Kg		07/29/16 11:35	07/31/16 20:37	1
Aroclor-1221	200	U	200	96	ug/Kg		07/29/16 11:35	07/31/16 20:37	1
Aroclor-1232	200	U	200	120	ug/Kg		07/29/16 11:35	07/31/16 20:37	1
Aroclor-1242	200	U	200	66	ug/Kg		07/29/16 11:35	07/31/16 20:37	1
Aroclor-1248	200	U	200	48	ug/Kg		07/29/16 11:35	07/31/16 20:37	1
Aroclor-1254	200	U	200	84	ug/Kg		07/29/16 11:35	07/31/16 20:37	1
Aroclor-1260	200	U	200	54	ug/Kg		07/29/16 11:35	07/31/16 20:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*97*		*14 - 128*	*07/29/16 11:35*	*07/31/16 20:37*	*1*
DCB Decachlorobiphenyl	*71*		*10 - 132*	*07/29/16 11:35*	*07/31/16 20:37*	*1*

Lab Sample ID: LCS 240-240447/24-A
Matrix: Solid
Analysis Batch: 240555

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 240447

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor-1016			2000	1430		ug/Kg		71	47 - 120		
Aroclor-1260			2000	1200		ug/Kg		60	46 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*57*		*14 - 128*
DCB Decachlorobiphenyl	*60*		*10 - 132*

Lab Sample ID: 240-67660-20 MS
Matrix: Solid
Analysis Batch: 240555

Client Sample ID: C-7878-072516-SSH-6043
Prep Type: Total/NA
Prep Batch: 240447

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor-1016	2000	U F2	2010	2520	F1	ug/Kg	☼	125	31 - 120		
Aroclor-1260	2000	U F1	2010	5100	F1	ug/Kg	☼	254	21 - 122		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*85*		*14 - 128*
DCB Decachlorobiphenyl	*72*		*10 - 132*

Lab Sample ID: 240-67660-20 MSD
Matrix: Solid
Analysis Batch: 240555

Client Sample ID: C-7878-072516-SSH-6043
Prep Type: Total/NA
Prep Batch: 240447

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor-1016	2000	U F1 F2	1970	2420	F1 F2	ug/Kg	☼	123	31 - 120	47	30
Aroclor-1260	2000	U F1	1970	6370	F1	ug/Kg	☼	323	21 - 122	22	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*104*		*14 - 128*
DCB Decachlorobiphenyl	*97*		*10 - 132*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 240-240460/11-A
Matrix: Solid
Analysis Batch: 240564

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 240460

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	200	U	200	72	ug/Kg		07/29/16 12:05	08/01/16 05:34	1
Aroclor-1221	200	U	200	96	ug/Kg		07/29/16 12:05	08/01/16 05:34	1
Aroclor-1232	200	U	200	120	ug/Kg		07/29/16 12:05	08/01/16 05:34	1
Aroclor-1242	200	U	200	66	ug/Kg		07/29/16 12:05	08/01/16 05:34	1
Aroclor-1248	200	U	200	48	ug/Kg		07/29/16 12:05	08/01/16 05:34	1
Aroclor-1254	200	U	200	84	ug/Kg		07/29/16 12:05	08/01/16 05:34	1
Aroclor-1260	200	U	200	54	ug/Kg		07/29/16 12:05	08/01/16 05:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*73*		*14 - 128*	*07/29/16 12:05*	*08/01/16 05:34*	*1*
DCB Decachlorobiphenyl	*84*		*10 - 132*	*07/29/16 12:05*	*08/01/16 05:34*	*1*

Lab Sample ID: LCS 240-240460/12-A
Matrix: Solid
Analysis Batch: 240564

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 240460

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor-1016			2000	1280		ug/Kg		64	47 - 120		
Aroclor-1260			2000	1340		ug/Kg		67	46 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*81*		*14 - 128*
DCB Decachlorobiphenyl	*86*		*10 - 132*

Lab Sample ID: 240-67660-28 MS
Matrix: Solid
Analysis Batch: 240564

Client Sample ID: C-7878-072516-SSH-6016
Prep Type: Total/NA
Prep Batch: 240460

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor-1016	2000	U F1	2020	2950	F1	ug/Kg	☼	146	31 - 120		
Aroclor-1260	2000	U F1	2020	4890	F1	ug/Kg	☼	242	21 - 122		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*41*	*p*	*14 - 128*
DCB Decachlorobiphenyl	*95*		*10 - 132*

Lab Sample ID: 240-67660-28 MSD
Matrix: Solid
Analysis Batch: 240564

Client Sample ID: C-7878-072516-SSH-6016
Prep Type: Total/NA
Prep Batch: 240460

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor-1016	2000	U F1	2030	3230	F1	ug/Kg	☼	159	31 - 120	9	30
Aroclor-1260	2000	U F1	2030	4780	F1	ug/Kg	☼	235	21 - 122	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*90*		*14 - 128*
DCB Decachlorobiphenyl	*96*		*10 - 132*

Method: Moisture - Percent Moisture

Lab Sample ID: 240-67660-1 DU
Matrix: Solid
Analysis Batch: 240300

Client Sample ID: C-7878-072516-SSH-6000
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	94.4		94.4		%		0	20
Percent Moisture	5.6		5.6		%		0.4	20

Lab Sample ID: 240-67660-10 DU
Matrix: Solid
Analysis Batch: 240300

Client Sample ID: C-7878-072516-SSH-6009
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	96.5		97.0		%		0.5	20
Percent Moisture	3.5		3.0		%		15	20

Lab Sample ID: 240-67660-11 DU
Matrix: Solid
Analysis Batch: 240331

Client Sample ID: C-7878-072516-SSH-6010
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	98.4		98.2		%		0.2	20
Percent Moisture	1.6		1.8		%		10	20

Lab Sample ID: 240-67660-20 DU
Matrix: Solid
Analysis Batch: 240331

Client Sample ID: C-7878-072516-SSH-6043
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	98.6		98.8		%		0.2	20
Percent Moisture	1.4		1.2		%		16	20

Lab Sample ID: 240-67660-29 DU
Matrix: Solid
Analysis Batch: 240331

Client Sample ID: C-7878-072516-SSH-6017
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	97.9		98.3		%		0.5	20
Percent Moisture	2.1		1.7	F3	%		24	20

Lab Sample ID: 240-67660-31 DU
Matrix: Solid
Analysis Batch: 240331

Client Sample ID: C-7878-072516-SSH-6019
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	97.3		97.3		%		0	20
Percent Moisture	2.7		2.7		%		0.9	20

Lab Sample ID: 240-67660-44 DU
Matrix: Solid
Analysis Batch: 240331

Client Sample ID: C-7878-072516-SSH-6040
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	99.1		99.3		%		0.2	20

Method: Moisture - Percent Moisture (Continued)

Lab Sample ID: 240-67660-44 DU
Matrix: Solid
Analysis Batch: 240331

Client Sample ID: C-7878-072516-SSH-6040
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	0.9			0.7	F3	%				24	20

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		TCX2	DCB2										
Lab Sample ID	Client Sample ID	(14-128)	(10-132)										
240-67660-1	C-7878-072516-SSH-6000	70	64										
240-67660-2	C-7878-072516-SSH-6001	89	98										
240-67660-3	C-7878-072516-SSH-6002	78	81										
240-67660-4	C-7878-072516-SSH-6003	73	60										
240-67660-5	C-7878-072516-SSH-6004	80	90										
240-67660-6	C-7878-072516-SSH-6005	89	240 X										
240-67660-7	C-7878-072516-SSH-6006	70	97										
240-67660-8	C-7878-072516-SSH-6007	85	76										
240-67660-9	C-7878-072516-SSH-6008	78	77										
240-67660-10	C-7878-072516-SSH-6009	84	85										
240-67660-11	C-7878-072516-SSH-6010	83	76										
240-67660-12	C-7878-072516-SSH-6011	75	77										
240-67660-13	C-7878-072516-SSH-6012	78	175 X										
240-67660-14	C-7878-072516-SSH-6013	81	78										
240-67660-15	C-7878-072516-SSH-6028	81	88										
240-67660-16	C-7878-072516-SSH-6047	72	75										
240-67660-17	C-7878-072516-SSH-6048	77	103										
240-67660-18	C-7878-072516-SSH-6049	80	80										
240-67660-19	C-7878-072516-SSH-6046	74	74										
240-67660-20	C-7878-072516-SSH-6043	75	77										
240-67660-20 MS	C-7878-072516-SSH-6043	85	72										
240-67660-20 MSD	C-7878-072516-SSH-6043	104	97										
240-67660-21	C-7878-072516-SSH-6044	80	104										
240-67660-22	C-7878-072516-SSH-6045	87	115										
240-67660-23	C-7878-072516-SSH-6021	78	93										
240-67660-24	C-7878-072516-SSH-6022	74	114 p										
240-67660-25	C-7878-072516-SSH-6023	74	1653 X										
240-67660-26	C-7878-072516-SSH-6014	73	117 p										
240-67660-27	C-7878-072516-SSH-6015	76	102 p										
240-67660-28	C-7878-072516-SSH-6016	98	170 X										
240-67660-28 MS	C-7878-072516-SSH-6016	41 p	95										
240-67660-28 MSD	C-7878-072516-SSH-6016	90	96										
240-67660-29	C-7878-072516-SSH-6017	82	91										
240-67660-29 MS	C-7878-072516-SSH-6017	76	82										
240-67660-29 MSD	C-7878-072516-SSH-6017	73	94										
240-67660-30	C-7878-072516-SSH-6018	75	100										
240-67660-31	C-7878-072516-SSH-6019	63	80										
240-67660-32	C-7878-072516-SSH-6020	106	156 X										
240-67660-33	C-7878-072516-SSH-6024	84	97										
240-67660-34	C-7878-072516-SSH-6025	77	93										
240-67660-35	C-7878-072516-SSH-6026	86	103										
240-67660-36	C-7878-072516-SSH-6027	84	122										
240-67660-41	C-7878-072516-SSH-6055	88	95										
240-67660-42	C-7878-072516-SSH-6056	78	112										
240-67660-43	C-7878-072516-SSH-6039	88	117										
240-67660-44	C-7878-072516-SSH-6040	78	139 X										
240-67660-46	C-7878-072516-SSH-6031	89	100										
240-67660-47	C-7878-072516-SSH-6036	79	130										
240-67660-48	C-7878-072516-SSH-6053	100	107										

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	TCX2 (14-128)	DCB2 (10-132)										
240-67660-49	C-7878-072516-SSH-6037	81	101										
240-67660-50	C-7878-072516-SSH-6050	106	127										
240-67660-53	C-7878-072516-SSH-6030	80 p	557 X										
240-67660-54	C-7878-072516-SSH-6038	93 p	147 X										
240-67660-56	C-7878-072516-SSH-6051	86	105										
LCS 240-240435/24-A	Lab Control Sample	138 X	89										
LCS 240-240447/24-A	Lab Control Sample	57	60										
LCS 240-240460/12-A	Lab Control Sample	81	86										
MB 240-240435/23-A	Method Blank	196 X	82										
MB 240-240447/23-A	Method Blank	97	71										
MB 240-240460/11-A	Method Blank	73	84										

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Client Sample ID: C-7878-072516-SSH-6000
Lab Sample ID: 240-67660-1
Date Collected: 07/25/16 09:45
Matrix: Solid
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240290	07/28/16 14:06	RB1	TAL CAN
Total/NA	Analysis	Moisture		1	240300	07/28/16 15:32	BLW	TAL CAN

Client Sample ID: C-7878-072516-SSH-6000
Lab Sample ID: 240-67660-1
Date Collected: 07/25/16 09:45
Matrix: Solid
Date Received: 07/27/16 09:30
Percent Solids: 94.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240290	07/28/16 14:06	RB1	TAL CAN
Total/NA	Prep	3540C			240447	07/29/16 11:35	SDE	TAL CAN
Total/NA	Analysis	8082		1	240555	07/31/16 15:34	LSH	TAL CAN

Client Sample ID: C-7878-072516-SSH-6001
Lab Sample ID: 240-67660-2
Date Collected: 07/25/16 09:50
Matrix: Solid
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240290	07/28/16 14:06	RB1	TAL CAN
Total/NA	Analysis	Moisture		1	240300	07/28/16 15:32	BLW	TAL CAN

Client Sample ID: C-7878-072516-SSH-6001
Lab Sample ID: 240-67660-2
Date Collected: 07/25/16 09:50
Matrix: Solid
Date Received: 07/27/16 09:30
Percent Solids: 97.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240290	07/28/16 14:06	RB1	TAL CAN
Total/NA	Prep	3540C			240447	07/29/16 11:35	SDE	TAL CAN
Total/NA	Analysis	8082		10	240555	07/31/16 15:52	LSH	TAL CAN

Client Sample ID: C-7878-072516-SSH-6002
Lab Sample ID: 240-67660-3
Date Collected: 07/25/16 10:55
Matrix: Solid
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240290	07/28/16 14:06	RB1	TAL CAN
Total/NA	Analysis	Moisture		1	240300	07/28/16 15:32	BLW	TAL CAN

Client Sample ID: C-7878-072516-SSH-6002
Lab Sample ID: 240-67660-3
Date Collected: 07/25/16 10:55
Matrix: Solid
Date Received: 07/27/16 09:30
Percent Solids: 96.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240290	07/28/16 14:06	RB1	TAL CAN

Client Sample ID: C-7878-072516-SSH-6002 — Lab Sample ID: 240-67660-3

Date Collected: 07/25/16 10:55 — **Matrix: Solid**
Date Received: 07/27/16 09:30 — **Percent Solids: 96.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			240447	07/29/16 11:35	SDE	TAL CAN
Total/NA	Analysis	8082		1	240555	07/31/16 16:11	LSH	TAL CAN

Client Sample ID: C-7878-072516-SSH-6003 — Lab Sample ID: 240-67660-4

Date Collected: 07/25/16 10:00 — **Matrix: Solid**
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240290	07/28/16 14:06	RB1	TAL CAN
Total/NA	Analysis	Moisture		1	240300	07/28/16 15:32	BLW	TAL CAN

Client Sample ID: C-7878-072516-SSH-6003 — Lab Sample ID: 240-67660-4

Date Collected: 07/25/16 10:00 — **Matrix: Solid**
Date Received: 07/27/16 09:30 — **Percent Solids: 88.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240290	07/28/16 14:06	RB1	TAL CAN
Total/NA	Prep	3540C			240447	07/29/16 11:35	SDE	TAL CAN
Total/NA	Analysis	8082		1	240555	07/31/16 16:30	LSH	TAL CAN

Client Sample ID: C-7878-072516-SSH-6004 — Lab Sample ID: 240-67660-5

Date Collected: 07/25/16 10:05 — **Matrix: Solid**
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240290	07/28/16 14:06	RB1	TAL CAN
Total/NA	Analysis	Moisture		1	240300	07/28/16 15:32	BLW	TAL CAN

Client Sample ID: C-7878-072516-SSH-6004 — Lab Sample ID: 240-67660-5

Date Collected: 07/25/16 10:05 — **Matrix: Solid**
Date Received: 07/27/16 09:30 — **Percent Solids: 97.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240290	07/28/16 14:06	RB1	TAL CAN
Total/NA	Prep	3540C			240447	07/29/16 11:35	SDE	TAL CAN
Total/NA	Analysis	8082		10	240555	07/31/16 16:49	LSH	TAL CAN

Client Sample ID: C-7878-072516-SSH-6005 — Lab Sample ID: 240-67660-6

Date Collected: 07/25/16 10:10 — **Matrix: Solid**
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240290	07/28/16 14:06	RB1	TAL CAN

Client Sample ID: C-7878-072516-SSH-6005
Lab Sample ID: 240-67660-6
Date Collected: 07/25/16 10:10
Matrix: Solid
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	240300	07/28/16 15:32	BLW	TAL CAN

Client Sample ID: C-7878-072516-SSH-6005
Lab Sample ID: 240-67660-6
Date Collected: 07/25/16 10:10
Matrix: Solid
Date Received: 07/27/16 09:30
Percent Solids: 93.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240290	07/28/16 14:06	RB1	TAL CAN
Total/NA	Prep	3540C			240447	07/29/16 11:35	SDE	TAL CAN
Total/NA	Analysis	8082		50	240555	07/31/16 17:08	LSH	TAL CAN

Client Sample ID: C-7878-072516-SSH-6006
Lab Sample ID: 240-67660-7
Date Collected: 07/25/16 10:15
Matrix: Solid
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240290	07/28/16 14:06	RB1	TAL CAN
Total/NA	Analysis	Moisture		1	240300	07/28/16 15:32	BLW	TAL CAN

Client Sample ID: C-7878-072516-SSH-6006
Lab Sample ID: 240-67660-7
Date Collected: 07/25/16 10:15
Matrix: Solid
Date Received: 07/27/16 09:30
Percent Solids: 95.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240290	07/28/16 14:06	RB1	TAL CAN
Total/NA	Prep	3540C			240447	07/29/16 11:35	SDE	TAL CAN
Total/NA	Analysis	8082		5	240555	07/31/16 17:27	LSH	TAL CAN

Client Sample ID: C-7878-072516-SSH-6007
Lab Sample ID: 240-67660-8
Date Collected: 07/25/16 10:20
Matrix: Solid
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240290	07/28/16 14:06	RB1	TAL CAN
Total/NA	Analysis	Moisture		1	240300	07/28/16 15:32	BLW	TAL CAN

Client Sample ID: C-7878-072516-SSH-6007
Lab Sample ID: 240-67660-8
Date Collected: 07/25/16 10:20
Matrix: Solid
Date Received: 07/27/16 09:30
Percent Solids: 97.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240290	07/28/16 14:06	RB1	TAL CAN
Total/NA	Prep	3540C			240447	07/29/16 11:35	SDE	TAL CAN

Client Sample ID: C-7878-072516-SSH-6007 — Lab Sample ID: 240-67660-8

Date Collected: 07/25/16 10:20 — **Matrix: Solid**
Date Received: 07/27/16 09:30 — **Percent Solids: 97.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8082		5	240555	07/31/16 17:46	LSH	TAL CAN

Client Sample ID: C-7878-072516-SSH-6008 — Lab Sample ID: 240-67660-9

Date Collected: 07/25/16 10:25 — **Matrix: Solid**
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240290	07/28/16 14:06	RB1	TAL CAN
Total/NA	Analysis	Moisture		1	240300	07/28/16 15:47	BLW	TAL CAN

Client Sample ID: C-7878-072516-SSH-6008 — Lab Sample ID: 240-67660-9

Date Collected: 07/25/16 10:25 — **Matrix: Solid**
Date Received: 07/27/16 09:30 — **Percent Solids: 97.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240290	07/28/16 14:06	RB1	TAL CAN
Total/NA	Prep	3540C			240447	07/29/16 11:35	SDE	TAL CAN
Total/NA	Analysis	8082		5	240555	07/31/16 18:05	LSH	TAL CAN

Client Sample ID: C-7878-072516-SSH-6009 — Lab Sample ID: 240-67660-10

Date Collected: 07/25/16 10:35 — **Matrix: Solid**
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240290	07/28/16 14:06	RB1	TAL CAN
Total/NA	Analysis	Moisture		1	240300	07/28/16 15:47	BLW	TAL CAN

Client Sample ID: C-7878-072516-SSH-6009 — Lab Sample ID: 240-67660-10

Date Collected: 07/25/16 10:35 — **Matrix: Solid**
Date Received: 07/27/16 09:30 — **Percent Solids: 96.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240290	07/28/16 14:06	RB1	TAL CAN
Total/NA	Prep	3540C			240447	07/29/16 11:35	SDE	TAL CAN
Total/NA	Analysis	8082		1	240555	07/31/16 18:24	LSH	TAL CAN

Client Sample ID: C-7878-072516-SSH-6010 — Lab Sample ID: 240-67660-11

Date Collected: 07/25/16 10:45 — **Matrix: Solid**
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Analysis	Moisture		1	240331	07/29/16 12:15	TPH	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

Client Sample ID: C-7878-072516-SSH-6010 — Lab Sample ID: 240-67660-11

Date Collected: 07/25/16 10:45 — **Matrix: Solid**
Date Received: 07/27/16 09:30 — **Percent Solids: 98.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Prep	3540C			240447	07/29/16 11:35	SDE	TAL CAN
Total/NA	Analysis	8082		5	240555	07/31/16 18:43	LSH	TAL CAN

Client Sample ID: C-7878-072516-SSH-6011 — Lab Sample ID: 240-67660-12

Date Collected: 07/25/16 11:00 — **Matrix: Solid**
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Analysis	Moisture		1	240331	07/29/16 12:15	TPH	TAL CAN

Client Sample ID: C-7878-072516-SSH-6011 — Lab Sample ID: 240-67660-12

Date Collected: 07/25/16 11:00 — **Matrix: Solid**
Date Received: 07/27/16 09:30 — **Percent Solids: 92.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Prep	3540C			240447	07/29/16 11:35	SDE	TAL CAN
Total/NA	Analysis	8082		5	240555	07/31/16 19:02	LSH	TAL CAN

Client Sample ID: C-7878-072516-SSH-6012 — Lab Sample ID: 240-67660-13

Date Collected: 07/25/16 11:05 — **Matrix: Solid**
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Analysis	Moisture		1	240331	07/29/16 12:15	TPH	TAL CAN

Client Sample ID: C-7878-072516-SSH-6012 — Lab Sample ID: 240-67660-13

Date Collected: 07/25/16 11:05 — **Matrix: Solid**
Date Received: 07/27/16 09:30 — **Percent Solids: 97.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Prep	3540C			240447	07/29/16 11:35	SDE	TAL CAN
Total/NA	Analysis	8082		10	240555	07/31/16 19:21	LSH	TAL CAN

Client Sample ID: C-7878-072516-SSH-6013 — Lab Sample ID: 240-67660-14

Date Collected: 07/25/16 11:10 — **Matrix: Solid**
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Analysis	Moisture		1	240331	07/29/16 12:15	TPH	TAL CAN

Client Sample ID: C-7878-072516-SSH-6013 — Lab Sample ID: 240-67660-14

Date Collected: 07/25/16 11:10 — **Matrix: Solid**
Date Received: 07/27/16 09:30 — **Percent Solids: 97.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Prep	3540C			240447	07/29/16 11:35	SDE	TAL CAN
Total/NA	Analysis	8082		10	240555	07/31/16 19:40	LSH	TAL CAN

Client Sample ID: C-7878-072516-SSH-6028 — Lab Sample ID: 240-67660-15

Date Collected: 07/25/16 11:15 — **Matrix: Solid**
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Analysis	Moisture		1	240331	07/29/16 12:15	TPH	TAL CAN

Client Sample ID: C-7878-072516-SSH-6028 — Lab Sample ID: 240-67660-15

Date Collected: 07/25/16 11:15 — **Matrix: Solid**
Date Received: 07/27/16 09:30 — **Percent Solids: 98.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Prep	3540C			240447	07/29/16 11:35	SDE	TAL CAN
Total/NA	Analysis	8082		5	240555	07/31/16 19:59	LSH	TAL CAN

Client Sample ID: C-7878-072516-SSH-6047 — Lab Sample ID: 240-67660-16

Date Collected: 07/25/16 11:20 — **Matrix: Solid**
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Analysis	Moisture		1	240331	07/29/16 12:15	TPH	TAL CAN

Client Sample ID: C-7878-072516-SSH-6047 — Lab Sample ID: 240-67660-16

Date Collected: 07/25/16 11:20 — **Matrix: Solid**
Date Received: 07/27/16 09:30 — **Percent Solids: 97.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN

Client Sample ID: C-7878-072516-SSH-6047 — Lab Sample ID: 240-67660-16

Date Collected: 07/25/16 11:20 — **Matrix: Solid**
Date Received: 07/27/16 09:30 — **Percent Solids: 97.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			240447	07/29/16 11:35	SDE	TAL CAN
Total/NA	Analysis	8082		5	240555	07/31/16 20:18	LSH	TAL CAN

Client Sample ID: C-7878-072516-SSH-6048 — Lab Sample ID: 240-67660-17

Date Collected: 07/25/16 11:25 — **Matrix: Solid**
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Analysis	Moisture		1	240331	07/29/16 12:15	TPH	TAL CAN

Client Sample ID: C-7878-072516-SSH-6048 — Lab Sample ID: 240-67660-17

Date Collected: 07/25/16 11:25 — **Matrix: Solid**
Date Received: 07/27/16 09:30 — **Percent Solids: 98.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Prep	3540C			240447	07/29/16 11:35	SDE	TAL CAN
Total/NA	Analysis	8082		10	240555	07/31/16 21:33	LSH	TAL CAN

Client Sample ID: C-7878-072516-SSH-6049 — Lab Sample ID: 240-67660-18

Date Collected: 07/25/16 11:30 — **Matrix: Solid**
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Analysis	Moisture		1	240331	07/29/16 12:15	TPH	TAL CAN

Client Sample ID: C-7878-072516-SSH-6049 — Lab Sample ID: 240-67660-18

Date Collected: 07/25/16 11:30 — **Matrix: Solid**
Date Received: 07/27/16 09:30 — **Percent Solids: 96.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Prep	3540C			240447	07/29/16 11:35	SDE	TAL CAN
Total/NA	Analysis	8082		5	240555	07/31/16 21:52	LSH	TAL CAN

Client Sample ID: C-7878-072516-SSH-6046 — Lab Sample ID: 240-67660-19

Date Collected: 07/25/16 11:35 — **Matrix: Solid**
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN

Client Sample ID: C-7878-072516-SSH-6046 — Lab Sample ID: 240-67660-19

Date Collected: 07/25/16 11:35 — **Matrix: Solid**
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	240331	07/29/16 12:15	TPH	TAL CAN

Client Sample ID: C-7878-072516-SSH-6046 — Lab Sample ID: 240-67660-19

Date Collected: 07/25/16 11:35 — **Matrix: Solid**
Date Received: 07/27/16 09:30 — **Percent Solids: 98.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Prep	3540C			240447	07/29/16 11:35	SDE	TAL CAN
Total/NA	Analysis	8082		5	240555	07/31/16 22:11	LSH	TAL CAN

Client Sample ID: C-7878-072516-SSH-6043 — Lab Sample ID: 240-67660-20

Date Collected: 07/25/16 11:40 — **Matrix: Solid**
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Analysis	Moisture		1	240331	07/29/16 12:15	TPH	TAL CAN

Client Sample ID: C-7878-072516-SSH-6043 — Lab Sample ID: 240-67660-20

Date Collected: 07/25/16 11:40 — **Matrix: Solid**
Date Received: 07/27/16 09:30 — **Percent Solids: 98.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Prep	3540C			240447	07/29/16 11:35	SDE	TAL CAN
Total/NA	Analysis	8082		10	240555	07/31/16 22:30	LSH	TAL CAN

Client Sample ID: C-7878-072516-SSH-6044 — Lab Sample ID: 240-67660-21

Date Collected: 07/25/16 11:45 — **Matrix: Solid**
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Analysis	Moisture		1	240331	07/29/16 12:15	TPH	TAL CAN

Client Sample ID: C-7878-072516-SSH-6044 — Lab Sample ID: 240-67660-21

Date Collected: 07/25/16 11:45 — **Matrix: Solid**
Date Received: 07/27/16 09:30 — **Percent Solids: 98.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Prep	3540C			240460	07/29/16 12:05	SDE	TAL CAN

Client Sample ID: C-7878-072516-SSH-6044
Lab Sample ID: 240-67660-21
Date Collected: 07/25/16 11:45
Matrix: Solid
Date Received: 07/27/16 09:30
Percent Solids: 98.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8082		10	240564	08/01/16 02:30	KMG	TAL CAN

Client Sample ID: C-7878-072516-SSH-6045
Lab Sample ID: 240-67660-22
Date Collected: 07/25/16 11:50
Matrix: Solid
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Analysis	Moisture		1	240331	07/29/16 12:15	TPH	TAL CAN

Client Sample ID: C-7878-072516-SSH-6045
Lab Sample ID: 240-67660-22
Date Collected: 07/25/16 11:50
Matrix: Solid
Date Received: 07/27/16 09:30
Percent Solids: 99.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Prep	3540C			240460	07/29/16 12:05	SDE	TAL CAN
Total/NA	Analysis	8082		5	240564	08/01/16 02:49	KMG	TAL CAN

Client Sample ID: C-7878-072516-SSH-6021
Lab Sample ID: 240-67660-23
Date Collected: 07/25/16 11:55
Matrix: Solid
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Analysis	Moisture		1	240331	07/29/16 12:15	TPH	TAL CAN

Client Sample ID: C-7878-072516-SSH-6021
Lab Sample ID: 240-67660-23
Date Collected: 07/25/16 11:55
Matrix: Solid
Date Received: 07/27/16 09:30
Percent Solids: 98.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Prep	3540C			240460	07/29/16 12:05	SDE	TAL CAN
Total/NA	Analysis	8082		1	240564	08/01/16 03:07	KMG	TAL CAN

Client Sample ID: C-7878-072516-SSH-6022
Lab Sample ID: 240-67660-24
Date Collected: 07/25/16 12:00
Matrix: Solid
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Analysis	Moisture		1	240331	07/29/16 12:15	TPH	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

Client Sample ID: C-7878-072516-SSH-6022
Lab Sample ID: 240-67660-24
Date Collected: 07/25/16 12:00
Matrix: Solid
Date Received: 07/27/16 09:30
Percent Solids: 98.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Prep	3540C			240460	07/29/16 12:05	SDE	TAL CAN
Total/NA	Analysis	8082		1	240564	08/01/16 03:25	KMG	TAL CAN

Client Sample ID: C-7878-072516-SSH-6023
Lab Sample ID: 240-67660-25
Date Collected: 07/25/16 12:05
Matrix: Solid
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Analysis	Moisture		1	240331	07/29/16 12:15	TPH	TAL CAN

Client Sample ID: C-7878-072516-SSH-6023
Lab Sample ID: 240-67660-25
Date Collected: 07/25/16 12:05
Matrix: Solid
Date Received: 07/27/16 09:30
Percent Solids: 98.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Prep	3540C			240460	07/29/16 12:05	SDE	TAL CAN
Total/NA	Analysis	8082		1	240564	08/01/16 03:44	KMG	TAL CAN

Client Sample ID: C-7878-072516-SSH-6014
Lab Sample ID: 240-67660-26
Date Collected: 07/25/16 12:15
Matrix: Solid
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Analysis	Moisture		1	240331	07/29/16 12:15	TPH	TAL CAN

Client Sample ID: C-7878-072516-SSH-6014
Lab Sample ID: 240-67660-26
Date Collected: 07/25/16 12:15
Matrix: Solid
Date Received: 07/27/16 09:30
Percent Solids: 93.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Prep	3540C			240460	07/29/16 12:05	SDE	TAL CAN
Total/NA	Analysis	8082		1	240564	08/01/16 04:02	KMG	TAL CAN

Client Sample ID: C-7878-072516-SSH-6015 — Lab Sample ID: 240-67660-27

Date Collected: 07/25/16 12:20 — **Matrix: Solid**
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Analysis	Moisture		1	240331	07/29/16 12:15	TPH	TAL CAN

Client Sample ID: C-7878-072516-SSH-6015 — Lab Sample ID: 240-67660-27

Date Collected: 07/25/16 12:20 — **Matrix: Solid**
Date Received: 07/27/16 09:30 — **Percent Solids: 98.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Prep	3540C			240460	07/29/16 12:05	SDE	TAL CAN
Total/NA	Analysis	8082		5	240564	08/01/16 04:20	KMG	TAL CAN

Client Sample ID: C-7878-072516-SSH-6016 — Lab Sample ID: 240-67660-28

Date Collected: 07/25/16 12:25 — **Matrix: Solid**
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Analysis	Moisture		1	240331	07/29/16 12:15	TPH	TAL CAN

Client Sample ID: C-7878-072516-SSH-6016 — Lab Sample ID: 240-67660-28

Date Collected: 07/25/16 12:25 — **Matrix: Solid**
Date Received: 07/27/16 09:30 — **Percent Solids: 97.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Prep	3540C			240460	07/29/16 12:05	SDE	TAL CAN
Total/NA	Analysis	8082		10	240564	08/01/16 04:39	KMG	TAL CAN

Client Sample ID: C-7878-072516-SSH-6017 — Lab Sample ID: 240-67660-29

Date Collected: 07/25/16 12:30 — **Matrix: Solid**
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Analysis	Moisture		1	240331	07/29/16 12:20	TPH	TAL CAN

Client Sample ID: C-7878-072516-SSH-6017 — Lab Sample ID: 240-67660-29

Date Collected: 07/25/16 12:30 — **Matrix: Solid**
Date Received: 07/27/16 09:30 — **Percent Solids: 97.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN

Client Sample ID: C-7878-072516-SSH-6017 — Lab Sample ID: 240-67660-29

Date Collected: 07/25/16 12:30 — **Matrix: Solid**
Date Received: 07/27/16 09:30 — **Percent Solids: 97.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			240435	07/29/16 11:19	SDE	TAL CAN
Total/NA	Analysis	8082		1	240561	07/31/16 22:31	SEM	TAL CAN

Client Sample ID: C-7878-072516-SSH-6018 — Lab Sample ID: 240-67660-30

Date Collected: 07/25/16 12:35 — **Matrix: Solid**
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Analysis	Moisture		1	240331	07/29/16 12:20	TPH	TAL CAN

Client Sample ID: C-7878-072516-SSH-6018 — Lab Sample ID: 240-67660-30

Date Collected: 07/25/16 12:35 — **Matrix: Solid**
Date Received: 07/27/16 09:30 — **Percent Solids: 97.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Prep	3540C			240435	07/29/16 11:19	SDE	TAL CAN
Total/NA	Analysis	8082		1	240561	07/31/16 15:46	SEM	TAL CAN

Client Sample ID: C-7878-072516-SSH-6019 — Lab Sample ID: 240-67660-31

Date Collected: 07/25/16 12:40 — **Matrix: Solid**
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Analysis	Moisture		1	240331	07/29/16 12:09	TPH	TAL CAN

Client Sample ID: C-7878-072516-SSH-6019 — Lab Sample ID: 240-67660-31

Date Collected: 07/25/16 12:40 — **Matrix: Solid**
Date Received: 07/27/16 09:30 — **Percent Solids: 97.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Prep	3540C			240435	07/29/16 11:19	SDE	TAL CAN
Total/NA	Analysis	8082		1	240561	07/31/16 16:05	SEM	TAL CAN

Client Sample ID: C-7878-072516-SSH-6020 — Lab Sample ID: 240-67660-32

Date Collected: 07/25/16 12:45 — **Matrix: Solid**
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN

Client Sample ID: C-7878-072516-SSH-6020
Lab Sample ID: 240-67660-32
Date Collected: 07/25/16 12:45
Matrix: Solid
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	240331	07/29/16 12:09	TPH	TAL CAN

Client Sample ID: C-7878-072516-SSH-6020
Lab Sample ID: 240-67660-32
Date Collected: 07/25/16 12:45
Matrix: Solid
Date Received: 07/27/16 09:30
Percent Solids: 97.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Prep	3540C			240435	07/29/16 11:19	SDE	TAL CAN
Total/NA	Analysis	8082		1	240561	07/31/16 16:23	SEM	TAL CAN

Client Sample ID: C-7878-072516-SSH-6024
Lab Sample ID: 240-67660-33
Date Collected: 07/25/16 12:50
Matrix: Solid
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Analysis	Moisture		1	240331	07/29/16 12:09	TPH	TAL CAN

Client Sample ID: C-7878-072516-SSH-6024
Lab Sample ID: 240-67660-33
Date Collected: 07/25/16 12:50
Matrix: Solid
Date Received: 07/27/16 09:30
Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Prep	3540C			240435	07/29/16 11:19	SDE	TAL CAN
Total/NA	Analysis	8082		1	240561	07/31/16 16:41	SEM	TAL CAN

Client Sample ID: C-7878-072516-SSH-6025
Lab Sample ID: 240-67660-34
Date Collected: 07/25/16 12:55
Matrix: Solid
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Analysis	Moisture		1	240331	07/29/16 12:09	TPH	TAL CAN

Client Sample ID: C-7878-072516-SSH-6025
Lab Sample ID: 240-67660-34
Date Collected: 07/25/16 12:55
Matrix: Solid
Date Received: 07/27/16 09:30
Percent Solids: 97.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Prep	3540C			240435	07/29/16 11:19	SDE	TAL CAN

Client Sample ID: C-7878-072516-SSH-6025 — Lab Sample ID: 240-67660-34

Date Collected: 07/25/16 12:55 — **Matrix: Solid**
Date Received: 07/27/16 09:30 — **Percent Solids: 97.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8082		1	240561	07/31/16 17:00	SEM	TAL CAN

Client Sample ID: C-7878-072516-SSH-6026 — Lab Sample ID: 240-67660-35

Date Collected: 07/25/16 13:00 — **Matrix: Solid**
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Analysis	Moisture		1	240331	07/29/16 12:09	TPH	TAL CAN

Client Sample ID: C-7878-072516-SSH-6026 — Lab Sample ID: 240-67660-35

Date Collected: 07/25/16 13:00 — **Matrix: Solid**
Date Received: 07/27/16 09:30 — **Percent Solids: 97.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Prep	3540C			240435	07/29/16 11:19	SDE	TAL CAN
Total/NA	Analysis	8082		5	240561	07/31/16 17:18	SEM	TAL CAN

Client Sample ID: C-7878-072516-SSH-6027 — Lab Sample ID: 240-67660-36

Date Collected: 07/25/16 13:05 — **Matrix: Solid**
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Analysis	Moisture		1	240331	07/29/16 12:09	TPH	TAL CAN

Client Sample ID: C-7878-072516-SSH-6027 — Lab Sample ID: 240-67660-36

Date Collected: 07/25/16 13:05 — **Matrix: Solid**
Date Received: 07/27/16 09:30 — **Percent Solids: 98.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Prep	3540C			240435	07/29/16 11:19	SDE	TAL CAN
Total/NA	Analysis	8082		5	240561	07/31/16 17:37	SEM	TAL CAN

Client Sample ID: C-7878-072516-SSH-6055 — Lab Sample ID: 240-67660-41

Date Collected: 07/25/16 13:35 — **Matrix: Solid**
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Analysis	Moisture		1	240331	07/29/16 12:09	TPH	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

Client Sample ID: C-7878-072516-SSH-6055
Lab Sample ID: 240-67660-41
Date Collected: 07/25/16 13:35
Matrix: Solid
Date Received: 07/27/16 09:30
Percent Solids: 96.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Prep	3540C			240435	07/29/16 11:19	SDE	TAL CAN
Total/NA	Analysis	8082		5	240561	07/31/16 17:55	SEM	TAL CAN

Client Sample ID: C-7878-072516-SSH-6056
Lab Sample ID: 240-67660-42
Date Collected: 07/25/16 13:40
Matrix: Solid
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Analysis	Moisture		1	240331	07/29/16 12:09	TPH	TAL CAN

Client Sample ID: C-7878-072516-SSH-6056
Lab Sample ID: 240-67660-42
Date Collected: 07/25/16 13:40
Matrix: Solid
Date Received: 07/27/16 09:30
Percent Solids: 96.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Prep	3540C			240435	07/29/16 11:19	SDE	TAL CAN
Total/NA	Analysis	8082		20	240561	07/31/16 18:13	SEM	TAL CAN

Client Sample ID: C-7878-072516-SSH-6039
Lab Sample ID: 240-67660-43
Date Collected: 07/25/16 13:45
Matrix: Solid
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Analysis	Moisture		1	240331	07/29/16 12:09	TPH	TAL CAN

Client Sample ID: C-7878-072516-SSH-6039
Lab Sample ID: 240-67660-43
Date Collected: 07/25/16 13:45
Matrix: Solid
Date Received: 07/27/16 09:30
Percent Solids: 94.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Prep	3540C			240435	07/29/16 11:19	SDE	TAL CAN
Total/NA	Analysis	8082		1	240561	07/31/16 18:32	SEM	TAL CAN

Client Sample ID: C-7878-072516-SSH-6040 — Lab Sample ID: 240-67660-44

Date Collected: 07/25/16 13:50 — **Matrix: Solid**
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Analysis	Moisture		1	240331	07/29/16 12:09	TPH	TAL CAN

Client Sample ID: C-7878-072516-SSH-6040 — Lab Sample ID: 240-67660-44

Date Collected: 07/25/16 13:50 — **Matrix: Solid**
Date Received: 07/27/16 09:30 — **Percent Solids: 99.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Prep	3540C			240435	07/29/16 11:19	SDE	TAL CAN
Total/NA	Analysis	8082		10	240561	07/31/16 18:50	SEM	TAL CAN

Client Sample ID: C-7878-072516-SSH-6031 — Lab Sample ID: 240-67660-46

Date Collected: 07/25/16 14:00 — **Matrix: Solid**
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Analysis	Moisture		1	240331	07/29/16 12:09	TPH	TAL CAN

Client Sample ID: C-7878-072516-SSH-6031 — Lab Sample ID: 240-67660-46

Date Collected: 07/25/16 14:00 — **Matrix: Solid**
Date Received: 07/27/16 09:30 — **Percent Solids: 98.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Prep	3540C			240435	07/29/16 11:19	SDE	TAL CAN
Total/NA	Analysis	8082		10	240561	07/31/16 19:08	SEM	TAL CAN

Client Sample ID: C-7878-072516-SSH-6036 — Lab Sample ID: 240-67660-47

Date Collected: 07/25/16 14:05 — **Matrix: Solid**
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Analysis	Moisture		1	240331	07/29/16 12:09	TPH	TAL CAN

Client Sample ID: C-7878-072516-SSH-6036 — Lab Sample ID: 240-67660-47

Date Collected: 07/25/16 14:05 — **Matrix: Solid**
Date Received: 07/27/16 09:30 — **Percent Solids: 98.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN

Client Sample ID: C-7878-072516-SSH-6036 — **Lab Sample ID: 240-67660-47**
Date Collected: 07/25/16 14:05 — **Matrix: Solid**
Date Received: 07/27/16 09:30 — **Percent Solids: 98.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			240435	07/29/16 11:19	SDE	TAL CAN
Total/NA	Analysis	8082		50	240561	07/31/16 19:27	SEM	TAL CAN

Client Sample ID: C-7878-072516-SSH-6053 — **Lab Sample ID: 240-67660-48**
Date Collected: 07/25/16 14:10 — **Matrix: Solid**
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Analysis	Moisture		1	240331	07/29/16 12:09	TPH	TAL CAN

Client Sample ID: C-7878-072516-SSH-6053 — **Lab Sample ID: 240-67660-48**
Date Collected: 07/25/16 14:10 — **Matrix: Solid**
Date Received: 07/27/16 09:30 — **Percent Solids: 97.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Prep	3540C			240435	07/29/16 11:19	SDE	TAL CAN
Total/NA	Analysis	8082		10	240561	07/31/16 19:45	SEM	TAL CAN

Client Sample ID: C-7878-072516-SSH-6037 — **Lab Sample ID: 240-67660-49**
Date Collected: 07/25/16 14:15 — **Matrix: Solid**
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Analysis	Moisture		1	240331	07/29/16 12:09	TPH	TAL CAN

Client Sample ID: C-7878-072516-SSH-6037 — **Lab Sample ID: 240-67660-49**
Date Collected: 07/25/16 14:15 — **Matrix: Solid**
Date Received: 07/27/16 09:30 — **Percent Solids: 98.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Prep	3540C			240435	07/29/16 11:19	SDE	TAL CAN
Total/NA	Analysis	8082		20	240561	07/31/16 20:04	SEM	TAL CAN

Client Sample ID: C-7878-072516-SSH-6050 — **Lab Sample ID: 240-67660-50**
Date Collected: 07/25/16 14:20 — **Matrix: Solid**
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN

Client Sample ID: C-7878-072516-SSH-6050
Lab Sample ID: 240-67660-50
Date Collected: 07/25/16 14:20
Matrix: Solid
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	240331	07/29/16 12:09	TPH	TAL CAN

Client Sample ID: C-7878-072516-SSH-6050
Lab Sample ID: 240-67660-50
Date Collected: 07/25/16 14:20
Matrix: Solid
Date Received: 07/27/16 09:30
Percent Solids: 96.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Prep	3540C			240435	07/29/16 11:19	SDE	TAL CAN
Total/NA	Analysis	8082		1	240561	07/31/16 20:22	SEM	TAL CAN

Client Sample ID: C-7878-072516-SSH-6030
Lab Sample ID: 240-67660-53
Date Collected: 07/25/16 14:35
Matrix: Solid
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Analysis	Moisture		1	240331	07/29/16 12:09	TPH	TAL CAN

Client Sample ID: C-7878-072516-SSH-6030
Lab Sample ID: 240-67660-53
Date Collected: 07/25/16 14:35
Matrix: Solid
Date Received: 07/27/16 09:30
Percent Solids: 98.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Prep	3540C			240435	07/29/16 11:19	SDE	TAL CAN
Total/NA	Analysis	8082		100	240561	07/31/16 21:36	SEM	TAL CAN

Client Sample ID: C-7878-072516-SSH-6038
Lab Sample ID: 240-67660-54
Date Collected: 07/25/16 14:40
Matrix: Solid
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Analysis	Moisture		1	240331	07/29/16 12:09	TPH	TAL CAN

Client Sample ID: C-7878-072516-SSH-6038
Lab Sample ID: 240-67660-54
Date Collected: 07/25/16 14:40
Matrix: Solid
Date Received: 07/27/16 09:30
Percent Solids: 97.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Prep	3540C			240435	07/29/16 11:19	SDE	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

Client Sample ID: C-7878-072516-SSH-6038

Lab Sample ID: 240-67660-54
Date Collected: 07/25/16 14:40
Matrix: Solid
Date Received: 07/27/16 09:30
Percent Solids: 97.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8082		100	240561	07/31/16 21:54	SEM	TAL CAN

Client Sample ID: C-7878-072516-SSH-6051

Lab Sample ID: 240-67660-56
Date Collected: 07/25/16 14:50
Matrix: Solid
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Analysis	Moisture		1	240331	07/29/16 12:09	TPH	TAL CAN

Client Sample ID: C-7878-072516-SSH-6051

Lab Sample ID: 240-67660-56
Date Collected: 07/25/16 14:50
Matrix: Solid
Date Received: 07/27/16 09:30
Percent Solids: 96.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240340	07/29/16 06:12	RB1	TAL CAN
Total/NA	Prep	3540C			240435	07/29/16 11:19	SDE	TAL CAN
Total/NA	Analysis	8082		1	240561	07/31/16 22:13	SEM	TAL CAN

Laboratory References:

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

Certification Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-1

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	07-31-16 *
Kentucky (UST)	State Program	4	58	02-23-17
Kentucky (WW)	State Program	4	98016	12-31-16
Minnesota	NELAP	5	039-999-348	12-31-16
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	08-31-16 *
Texas	NELAP	6	T104704517-15-5	08-31-16 *
USDA	Federal		P330-13-00319	11-26-16
Virginia	NELAP	3	460175	09-14-16 *
Washington	State Program	10	C971	01-12-17
West Virginia DEP	State Program	3	210	12-31-16
Wisconsin	State Program	5	999518190	08-31-16 *

* Certification renewal pending - certification considered valid.

TestAmerica Michigan

10448 Citation Drive
Suite 200
Brighton, MI 48116
Phone: 810.229.2763 Fax:

2.8/C3.8

Chain of Custody Record

133906

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: M. Tomka	Site Contact: JE Pardys	Date: 7/25/16	COC No: 133906-133910
Company Name: GHD Services	Tel/Fax: 519 884 0510	Lab Contact: D. Heckler	Carrier: FedEx	1 of 5 COCs
Address: 14496 N. Sheldon Rd Ste 200	Analysis Turnaround Time			Sampler: S. Hoevemeyer
City/State/Zip: Plymouth, MI 48170	☐ CALENDAR DAYS ☒ WORKING DAYS			For Lab Use Only:
Phone: 734 453 5123	TAT if different from Below			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: RacoTrust SMI	☒ 1 week			
Site: 7878-T01-012 SSOW	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PLBS	Sample Specific Notes:
C-7878-072516-SSH-6000	7/25/16	0945	G	C	1	N	N	X	
-6001		0950	G	C	1	N	N	X	
-6002		1055	G	C	1	N	N	X	
-6003		1000	G	C	1	N	N	X	
-6004		1005	G	C	1	N	N	X	
-6005		1010	G	C	1	N	N	X	
-6006		1015	G	C	1	N	N	X	
-6007		1020	G	C	1	N	N	X	
-6008		1025	G	C	1	N	N	X	
-6009		1035	G	C	1	N	N	X	
-6010		1045	G	C	1	N	N	X	
C-7878-072516-SSH-6011		1100	G	C	1	N	N	X	

240-67660 Chain of Custody

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.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: 194217 | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ | Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	GHD	7/26/16 1600	[signature]	TA Can	7/27/16 09:30
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

TestAmerica Michigan
10448 Citation Drive
Suite 200
Brighton, MI 48116
Phone: 810.229.2763 Fax:

Chain of Custody Record

133907

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager:	Site Contact:	Date: 7/25/16	COC No: 133907
Company Name: GHD	Tel/Fax:	Lab Contact:	Carrier: T-Rail Ex	2 of 5 COCs
Address:	Analysis Turnaround Time			Sampler: S Hovemeyer
City/State/Zip:	☐ CALENDAR DAYS ☒ WORKING DAYS			For Lab Use Only:
Phone:	TAT if different from Below ____			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: RacTrust SMT	☒ 1 week			
Site: 7878-T01-012 SSOW	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs	Sample Specific Notes:
C-7878-072516-SSH-6012	7/25/16	1105	G	C	1	N	N	X	
-6013		1110	G	C	1	N	N	X	
-6028		1115	G	C	1	N	N	X	
-6047		1120	G	C	1	N	N	X	
-6048		1125	G	C	1	N	N	X	
-6049		1130	G	C	1	N	N	X	
-6046		1135	G	C	1	N	N	X	
-6043		1140	G	C	1	N	N	X	
-6044		1145	G	C	1	N	N	X	
-6045		1150	G	C	1	N	N	X	
-6021		1155	G	C	1	N	N	X	
C-7878-072516-SSH-6022		1200	G	C	1	N	N	X	

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.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: 94217 | Cooler Temp. (°C): Obs'd:____ Corr'd:____ | Therm ID No.:____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	GHD	7/26/16 1600	[signature]	TA Cam	7/27/16 0930
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

8/1/2016

TestAmerica Michigan
10448 Citation Drive
Suite 200
Brighton, MI 48116
Phone: 810.229.2763 Fax:

Chain of Custody Record

133908

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager:	Site Contact:	Date: 7/25/16	COC No: 133908
Company Name: GHD	Tel/Fax:	Lab Contact:	Carrier:	3 of 5 COCs
Address:	Analysis Turnaround Time			Sampler: S. Hoekmeyer
City/State/Zip:	☐ CALENDAR DAYS ☒ WORKING DAYS			For Lab Use Only:
Phone:	TAT if different from Below _____			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: RacerTrust SMI	☒ 1 week			
Site: 7878 - T01 - 012 SSOW	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs	Sample Specific Notes:
C-7878-072516-SSH-6023	7/25/16	1205	G	C	1	N	N	X	
-6014		1215	G	C	1	N	N	X	
-6015		1220	G	C	1	N	N	X	
-6016		1225	G	C	1	N	N	X	
-6017		1230	G	C	1	N	N	X	
-6018		1235	G	C	1	N	N	X	
-6019		1240	G	C	1	N	N	X	
-6020		1245	G	C	1	N	N	X	
-6024		1250	G	C	1	N	N	X	
-6025		1255	G	C	1	N	N	X	
-6026		1300	G	C	1	N	N	X	
C-7878-072516-SSH-6027		1305	G	C	1	N	N	X	

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.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: 794217 | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ | Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	GHD	7/26/16 1600	Gary Burns	TA Canton	7/27/16 0930
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

TestAmerica Michigan
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Phone: 810.229.2763 Fax:

Chain of Custody Record

133909

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager:	Site Contact:	Date: 7/25/16	COC No: 133909
Company Name: GHD	Tel/Fax:	Lab Contact:	Carrier:	4 of 5 COCs
Address:	Analysis Turnaround Time			Sampler: S. Hoevemeyer
City/State/Zip:	☐ CALENDAR DAYS ☒ WORKING DAYS			For Lab Use Only:
Phone:	TAT if different from Below _____			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: RacTrust SMI	☒ 1 week			
Site: 7B)B-TO1-012 SSOW	☐ 2 days			Job / SDG No.:
PO #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs	Sample Specific Notes:
C-7B)B-072516-SSH-6029	7/25/16	1315	G	C	1	N	N	X	Hold
-6041		1320	G	C	1	N	N	X	Hold
-6042		1325	G	C	1	N	N	X	Hold
-6054		1330	G	C	1	N	N	X	Hold
-6055		1335	G	C	1	N	N	X	
-6056		1340	G	C	1	N	N	X	
-6039		1345	G	C	1	N	N	X	
-6040		1350	G	C	1	N	N	X	
-6032		1355	G	C	1	N	N	X	Hold
-6031		1400	G	C	1	N	N	X	
-6036		1405	G	C	1	N	N	X	
C-7B)B-072516-SSH -6053		1410	G	C	1	N	N	X	

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.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: Hold per GHD

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.: 794217	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____	Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	GHD	7/26/16 1600	Gary Burns	TA Can	7/27/16 0930
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

8/1/2016

TestAmerica Michigan
10448 Citation Drive
Suite 200
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Phone: 810.229.2763 Fax:

Chain of Custody Record

133910

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager:	Site Contact:	Date:	COC No: 133910
Company Name: GHD	Tel/Fax:	Lab Contact:	Carrier:	5 of 5 COCs
Address:	Analysis Turnaround Time			Sampler: S. Hartmeyer
City/State/Zip:	☐ CALENDAR DAYS ☒ WORKING DAYS			For Lab Use Only:
Phone:	TAT if different from Below _____			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: RAW Trust SMI	☒ 1 week			
Site: SSOW 7878-101-012	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs	Sample Specific Notes:
L-7878-072516-SSH-6037	7/25/16	1415	G	L	1	N	N	X	
-6050		1420	G	L	1	N	N	X	
-6035		1425	G	L	1	N	N	X	Hold
-6034		1430	G	L	1	N	N	X	Hold
-6030		1435	G	L	1	N	N	X	
-6038		1440	G	L	1	N	N	X	
-6033		1445	G	L	1	N	N	X	Hold
-6051		1450	G	L	1	N	N	X	
L-7878-072516-SSH-6052		1455	G	L	1	N	N	X	Hold

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.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: Hold per GHD

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.: 794217	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____	Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	GHD	7/26/16 1600	[signature]	TA Can	7/27/16 0930
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

TestAmerica Canton Sample Receipt Form/Narrative **Login # : 607060**

Canton Facility

Client GHD Site Name _____ Cooler unpacked by: Amy Burns

Cooler Received on 7/27/16 Opened on 7/27/16

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # _____ Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN# IR-8 (CF +1.3 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

IR GUN #36 (CF +1.0°C) Observed Cooler Temp. 2.8 °C Corrected Cooler Temp. 3.8 °C

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1	Yes	No
-Were custody seals on the outside of the cooler(s) signed & dated?	Yes	No NA
-Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	No
3. Shippers' packing slip attached to the cooler(s)?	Yes	No
4. Did custody papers accompany the sample(s)?	Yes	No
5. Were the custody papers relinquished & signed in the appropriate place?	Yes	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	No
7. Did all bottles arrive in good condition (Unbroken)?	Yes	No
8. Could all bottle labels be reconciled with the COC?	Yes	No
9. Were correct bottle(s) used for the test(s) indicated?	Yes	No
10. Sufficient quantity received to perform indicated analyses?	Yes	No
11. Are these work share samples?	Yes	No
If yes, Questions 11-15 have been checked at the originating laboratory.		
11. Were sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# HC574756
12. Were VOAs on the COC?	Yes	No
13. Were air bubbles >6 mm in any VOA vials?	Yes	No NA
14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____	Yes	No
15. Was a LL Hg or Me Hg trip blank present? _____	Yes	No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by:

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

Ref: SOP NC-SC-0005, Sample Receiving

L:\QAQC\QA Department\QA TARDIS\Document Control\Work Instructions\In Revision\WI-NC-099-061316 Cooler Receipt Form.doc djl

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: 240-67660-2
Client Project/Site: 7878, RACER SMI

For:
GHD Services Inc.
14496 Sheldon Road, Suite 200
Plymouth, Michigan 48170

Attn: Rawa Fleisher

Denise D Heckler

Authorized for release by:
8/8/2016 10:49:58 AM

Denise Heckler, Project Manager II
(330)966-9477
denise.heckler@testamericainc.com

LINKS

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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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Job ID: 240-67660-2

Laboratory: TestAmerica Canton

Narrative

Job Narrative
240-67660-2

Comments
Samples were taken off hold by GHD on August 1, 2016.

Receipt
The samples were received on 7/27/2016 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.8º C.

GC Semi VOA
Method(s) 8082: Two surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: C-7878-072516-SSH-6032 (240-67660-45). These results have been reported and qualified.

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: C-7878-072516-SSH-6029 (240-67660-37). Due to the poor match with the Aroclor standards, there is increased qualitative and quantitative uncertainty associated with this result.

Method(s) 8082: The following samples 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: C-7878-072516-SSH-6041 (240-67660-38), C-7878-072516-SSH-6032 (240-67660-45), C-7878-072516-SSH-6035 (240-67660-51), C-7878-072516-SSH-6034 (240-67660-52), C-7878-072516-SSH-6033 (240-67660-55) and C-7878-072516-SSH-6052 (240-67660-57). Due to the poor match with the Aroclor standards, 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.

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

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

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-2

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

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
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)

Sample Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-67660-37	C-7878-072516-SSH-6029	Solid	07/25/16 12:15	07/27/16 09:30
240-67660-38	C-7878-072516-SSH-6041	Solid	07/25/16 13:20	07/27/16 09:30
240-67660-45	C-7878-072516-SSH-6032	Solid	07/25/16 13:55	07/27/16 09:30
240-67660-51	C-7878-072516-SSH-6035	Solid	07/25/16 14:25	07/27/16 09:30
240-67660-52	C-7878-072516-SSH-6034	Solid	07/25/16 14:30	07/27/16 09:30
240-67660-55	C-7878-072516-SSH-6033	Solid	07/25/16 14:45	07/27/16 09:30
240-67660-57	C-7878-072516-SSH-6052	Solid	07/25/16 14:55	07/27/16 09:30

Detection Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-2

Client Sample ID: C-7878-072516-SSH-6029 — Lab Sample ID: 240-67660-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	2300		1000	420	ug/Kg	5	☼	8082	Total/NA

Client Sample ID: C-7878-072516-SSH-6041 — Lab Sample ID: 240-67660-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	2200		1000	430	ug/Kg	5	☼	8082	Total/NA

Client Sample ID: C-7878-072516-SSH-6032 — Lab Sample ID: 240-67660-45

No Detections.

Client Sample ID: C-7878-072516-SSH-6035 — Lab Sample ID: 240-67660-51

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	110	J	210	51	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: C-7878-072516-SSH-6034 — Lab Sample ID: 240-67660-52

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	430000		100000	24000	ug/Kg	500	☼	8082	Total/NA

Client Sample ID: C-7878-072516-SSH-6033 — Lab Sample ID: 240-67660-55

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	3100		1000	340	ug/Kg	5	☼	8082	Total/NA
Aroclor-1254	5700		1000	430	ug/Kg	5	☼	8082	Total/NA

Client Sample ID: C-7878-072516-SSH-6052 — Lab Sample ID: 240-67660-57

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	230		200	67	ug/Kg	1	☼	8082	Total/NA
Aroclor-1254	860		200	86	ug/Kg	1	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-2

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
Moisture	Percent Moisture	EPA	TAL CAN

Protocol References:

EPA = US Environmental Protection Agency

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

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-072516-SSH-6029
Date Collected: 07/25/16 12:15
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-37
Matrix: Solid
Percent Solids: 98.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	1000	U	1000	360	ug/Kg	☼	08/04/16 13:07	08/07/16 14:17	5
Aroclor-1221	1000	U	1000	480	ug/Kg	☼	08/04/16 13:07	08/07/16 14:17	5
Aroclor-1232	1000	U	1000	610	ug/Kg	☼	08/04/16 13:07	08/07/16 14:17	5
Aroclor-1242	1000	U	1000	330	ug/Kg	☼	08/04/16 13:07	08/07/16 14:17	5
Aroclor-1248	1000	U	1000	240	ug/Kg	☼	08/04/16 13:07	08/07/16 14:17	5
Aroclor-1254	**2300**		1000	420	ug/Kg	☼	08/04/16 13:07	08/07/16 14:17	5
Aroclor-1260	1000	U	1000	270	ug/Kg	☼	08/04/16 13:07	08/07/16 14:17	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*71*		*14 - 128*	*08/04/16 13:07*	*08/07/16 14:17*	*5*
DCB Decachlorobiphenyl	*71*		*10 - 132*	*08/04/16 13:07*	*08/07/16 14:17*	*5*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-072516-SSH-6041
Date Collected: 07/25/16 13:20
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-38
Matrix: Solid
Percent Solids: 97.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	1000	U	1000	370	ug/Kg	☼	08/04/16 13:07	08/07/16 14:36	5
Aroclor-1221	1000	U	1000	490	ug/Kg	☼	08/04/16 13:07	08/07/16 14:36	5
Aroclor-1232	1000	U	1000	610	ug/Kg	☼	08/04/16 13:07	08/07/16 14:36	5
Aroclor-1242	1000	U	1000	340	ug/Kg	☼	08/04/16 13:07	08/07/16 14:36	5
Aroclor-1248	1000	U	1000	250	ug/Kg	☼	08/04/16 13:07	08/07/16 14:36	5
Aroclor-1254	**2200**		1000	430	ug/Kg	☼	08/04/16 13:07	08/07/16 14:36	5
Aroclor-1260	1000	U	1000	280	ug/Kg	☼	08/04/16 13:07	08/07/16 14:36	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*14 - 128*	*08/04/16 13:07*	*08/07/16 14:36*	*5*
DCB Decachlorobiphenyl	*73*		*10 - 132*	*08/04/16 13:07*	*08/07/16 14:36*	*5*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-072516-SSH-6032
Date Collected: 07/25/16 13:55
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-45
Matrix: Solid
Percent Solids: 93.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	210	U	210	76	ug/Kg	☼	08/04/16 13:07	08/07/16 14:54	1
Aroclor-1221	210	U	210	100	ug/Kg	☼	08/04/16 13:07	08/07/16 14:54	1
Aroclor-1232	210	U	210	130	ug/Kg	☼	08/04/16 13:07	08/07/16 14:54	1
Aroclor-1242	210	U	210	70	ug/Kg	☼	08/04/16 13:07	08/07/16 14:54	1
Aroclor-1248	210	U	210	51	ug/Kg	☼	08/04/16 13:07	08/07/16 14:54	1
Aroclor-1254	210	U	210	89	ug/Kg	☼	08/04/16 13:07	08/07/16 14:54	1
Aroclor-1260	210	U	210	57	ug/Kg	☼	08/04/16 13:07	08/07/16 14:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*135*	*X*	*14 - 128*	*08/04/16 13:07*	*08/07/16 14:54*	*1*
DCB Decachlorobiphenyl	*125*		*10 - 132*	*08/04/16 13:07*	*08/07/16 14:54*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-072516-SSH-6035
Date Collected: 07/25/16 14:25
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-51
Matrix: Solid
Percent Solids: 93.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	210	U	210	76	ug/Kg	☼	08/04/16 13:07	08/07/16 15:12	1
Aroclor-1221	210	U	210	100	ug/Kg	☼	08/04/16 13:07	08/07/16 15:12	1
Aroclor-1232	210	U	210	130	ug/Kg	☼	08/04/16 13:07	08/07/16 15:12	1
Aroclor-1242	210	U	210	70	ug/Kg	☼	08/04/16 13:07	08/07/16 15:12	1
Aroclor-1248	**110**	**J**	210	51	ug/Kg	☼	08/04/16 13:07	08/07/16 15:12	1
Aroclor-1254	210	U	210	89	ug/Kg	☼	08/04/16 13:07	08/07/16 15:12	1
Aroclor-1260	210	U	210	57	ug/Kg	☼	08/04/16 13:07	08/07/16 15:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*70*		*14 - 128*	*08/04/16 13:07*	*08/07/16 15:12*	*1*
DCB Decachlorobiphenyl	*67*		*10 - 132*	*08/04/16 13:07*	*08/07/16 15:12*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-072516-SSH-6034
Date Collected: 07/25/16 14:30
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-52
Matrix: Solid
Percent Solids: 98.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	100000	U	100000	37000	ug/Kg	☼	08/04/16 13:07	08/07/16 15:30	500
Aroclor-1221	100000	U	100000	49000	ug/Kg	☼	08/04/16 13:07	08/07/16 15:30	500
Aroclor-1232	100000	U	100000	61000	ug/Kg	☼	08/04/16 13:07	08/07/16 15:30	500
Aroclor-1242	100000	U	100000	33000	ug/Kg	☼	08/04/16 13:07	08/07/16 15:30	500
Aroclor-1248	**430000**		100000	24000	ug/Kg	☼	08/04/16 13:07	08/07/16 15:30	500
Aroclor-1254	100000	U	100000	43000	ug/Kg	☼	08/04/16 13:07	08/07/16 15:30	500
Aroclor-1260	100000	U	100000	27000	ug/Kg	☼	08/04/16 13:07	08/07/16 15:30	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*121*	*p*	*14 - 128*	*08/04/16 13:07*	*08/07/16 15:30*	*500*
DCB Decachlorobiphenyl	*1237*	*X*	*10 - 132*	*08/04/16 13:07*	*08/07/16 15:30*	*500*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-072516-SSH-6033
Date Collected: 07/25/16 14:45
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-55
Matrix: Solid
Percent Solids: 97.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	1000	U	1000	370	ug/Kg	☼	08/04/16 13:07	08/07/16 15:49	5
Aroclor-1221	1000	U	1000	490	ug/Kg	☼	08/04/16 13:07	08/07/16 15:49	5
Aroclor-1232	1000	U	1000	610	ug/Kg	☼	08/04/16 13:07	08/07/16 15:49	5
Aroclor-1242	**3100**		1000	340	ug/Kg	☼	08/04/16 13:07	08/07/16 15:49	5
Aroclor-1248	1000	U	1000	240	ug/Kg	☼	08/04/16 13:07	08/07/16 15:49	5
Aroclor-1254	**5700**		1000	430	ug/Kg	☼	08/04/16 13:07	08/07/16 15:49	5
Aroclor-1260	1000	U	1000	280	ug/Kg	☼	08/04/16 13:07	08/07/16 15:49	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*114*		*14 - 128*	*08/04/16 13:07*	*08/07/16 15:49*	*5*
DCB Decachlorobiphenyl	*107*		*10 - 132*	*08/04/16 13:07*	*08/07/16 15:49*	*5*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-072516-SSH-6052
Date Collected: 07/25/16 14:55
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-57
Matrix: Solid
Percent Solids: 98.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	200	U	200	73	ug/Kg	☼	08/04/16 13:07	08/07/16 16:07	1
Aroclor-1221	200	U	200	98	ug/Kg	☼	08/04/16 13:07	08/07/16 16:07	1
Aroclor-1232	200	U	200	120	ug/Kg	☼	08/04/16 13:07	08/07/16 16:07	1
Aroclor-1242	**230**		200	67	ug/Kg	☼	08/04/16 13:07	08/07/16 16:07	1
Aroclor-1248	200	U	200	49	ug/Kg	☼	08/04/16 13:07	08/07/16 16:07	1
Aroclor-1254	**860**		200	86	ug/Kg	☼	08/04/16 13:07	08/07/16 16:07	1
Aroclor-1260	200	U	200	55	ug/Kg	☼	08/04/16 13:07	08/07/16 16:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*64*		*14 - 128*	*08/04/16 13:07*	*08/07/16 16:07*	*1*
DCB Decachlorobiphenyl	*49*		*10 - 132*	*08/04/16 13:07*	*08/07/16 16:07*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-2

General Chemistry

Client Sample ID: C-7878-072516-SSH-6029
Date Collected: 07/25/16 12:15
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-37
Matrix: Solid
Percent Solids: 98.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	98.6		0.1	0.1	%			08/04/16 14:45	1
Percent Moisture	1.4		0.1	0.1	%			08/04/16 14:45	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-2

General Chemistry

Client Sample ID: C-7878-072516-SSH-6041
Date Collected: 07/25/16 13:20
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-38
Matrix: Solid
Percent Solids: 97.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97.9		0.1	0.1	%			08/04/16 14:45	1
Percent Moisture	2.1		0.1	0.1	%			08/04/16 14:45	1

General Chemistry

Client Sample ID: C-7878-072516-SSH-6032
Date Collected: 07/25/16 13:55
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-45
Matrix: Solid
Percent Solids: 93.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	93.7		0.1	0.1	%			08/04/16 14:45	1
Percent Moisture	6.3		0.1	0.1	%			08/04/16 14:45	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-2

General Chemistry

Client Sample ID: C-7878-072516-SSH-6035
Date Collected: 07/25/16 14:25
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-51
Matrix: Solid
Percent Solids: 93.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	93.8		0.1	0.1	%			08/04/16 14:45	1
Percent Moisture	6.2		0.1	0.1	%			08/04/16 14:45	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-2

General Chemistry

Client Sample ID: C-7878-072516-SSH-6034
Date Collected: 07/25/16 14:30
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-52
Matrix: Solid
Percent Solids: 98.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	98.7		0.1	0.1	%			08/04/16 14:45	1
Percent Moisture	1.3		0.1	0.1	%			08/04/16 14:45	1

General Chemistry

Client Sample ID: C-7878-072516-SSH-6033
Date Collected: 07/25/16 14:45
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-55
Matrix: Solid
Percent Solids: 97.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97.7		0.1	0.1	%			08/04/16 14:45	1
Percent Moisture	2.3		0.1	0.1	%			08/04/16 14:45	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-2

General Chemistry

Client Sample ID: C-7878-072516-SSH-6052
Date Collected: 07/25/16 14:55
Date Received: 07/27/16 09:30

Lab Sample ID: 240-67660-57
Matrix: Solid
Percent Solids: 98.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	98.0		0.1	0.1	%			08/04/16 14:45	1
Percent Moisture	2.0		0.1	0.1	%			08/04/16 14:45	1

QC Association Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-2

GC Semi VOA

Processed Batch: 240956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-67660-37	C-7878-072516-SSH-6029	Total/NA	Solid	Part Size Red	
240-67660-38	C-7878-072516-SSH-6041	Total/NA	Solid	Part Size Red	
240-67660-45	C-7878-072516-SSH-6032	Total/NA	Solid	Part Size Red	
240-67660-51	C-7878-072516-SSH-6035	Total/NA	Solid	Part Size Red	
240-67660-52	C-7878-072516-SSH-6034	Total/NA	Solid	Part Size Red	
240-67660-55	C-7878-072516-SSH-6033	Total/NA	Solid	Part Size Red	
240-67660-57	C-7878-072516-SSH-6052	Total/NA	Solid	Part Size Red	
240-67660-57 MS	C-7878-072516-SSH-6052	Total/NA	Solid	Part Size Red	
240-67660-57 MSD	C-7878-072516-SSH-6052	Total/NA	Solid	Part Size Red	

Prep Batch: 241253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-67660-37	C-7878-072516-SSH-6029	Total/NA	Solid	3540C	240956
240-67660-38	C-7878-072516-SSH-6041	Total/NA	Solid	3540C	240956
240-67660-45	C-7878-072516-SSH-6032	Total/NA	Solid	3540C	240956
240-67660-51	C-7878-072516-SSH-6035	Total/NA	Solid	3540C	240956
240-67660-52	C-7878-072516-SSH-6034	Total/NA	Solid	3540C	240956
240-67660-55	C-7878-072516-SSH-6033	Total/NA	Solid	3540C	240956
240-67660-57	C-7878-072516-SSH-6052	Total/NA	Solid	3540C	240956
MB 240-241253/10-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-241253/11-A	Lab Control Sample	Total/NA	Solid	3540C	
240-67660-57 MS	C-7878-072516-SSH-6052	Total/NA	Solid	3540C	240956
240-67660-57 MSD	C-7878-072516-SSH-6052	Total/NA	Solid	3540C	240956

Analysis Batch: 241515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-67660-37	C-7878-072516-SSH-6029	Total/NA	Solid	8082	241253
240-67660-38	C-7878-072516-SSH-6041	Total/NA	Solid	8082	241253
240-67660-45	C-7878-072516-SSH-6032	Total/NA	Solid	8082	241253
240-67660-51	C-7878-072516-SSH-6035	Total/NA	Solid	8082	241253
240-67660-52	C-7878-072516-SSH-6034	Total/NA	Solid	8082	241253
240-67660-55	C-7878-072516-SSH-6033	Total/NA	Solid	8082	241253
240-67660-57	C-7878-072516-SSH-6052	Total/NA	Solid	8082	241253
MB 240-241253/10-A	Method Blank	Total/NA	Solid	8082	241253
LCS 240-241253/11-A	Lab Control Sample	Total/NA	Solid	8082	241253
240-67660-57 MS	C-7878-072516-SSH-6052	Total/NA	Solid	8082	241253
240-67660-57 MSD	C-7878-072516-SSH-6052	Total/NA	Solid	8082	241253

General Chemistry

Processed Batch: 240956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-67660-37	C-7878-072516-SSH-6029	Total/NA	Solid	Part Size Red	
240-67660-38	C-7878-072516-SSH-6041	Total/NA	Solid	Part Size Red	
240-67660-45	C-7878-072516-SSH-6032	Total/NA	Solid	Part Size Red	
240-67660-51	C-7878-072516-SSH-6035	Total/NA	Solid	Part Size Red	
240-67660-52	C-7878-072516-SSH-6034	Total/NA	Solid	Part Size Red	
240-67660-55	C-7878-072516-SSH-6033	Total/NA	Solid	Part Size Red	
240-67660-57	C-7878-072516-SSH-6052	Total/NA	Solid	Part Size Red	
240-67660-37 DU	C-7878-072516-SSH-6029	Total/NA	Solid	Part Size Red	

General Chemistry (Continued)

Analysis Batch: 241285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-67660-37	C-7878-072516-SSH-6029	Total/NA	Solid	Moisture	240956
240-67660-38	C-7878-072516-SSH-6041	Total/NA	Solid	Moisture	240956
240-67660-45	C-7878-072516-SSH-6032	Total/NA	Solid	Moisture	240956
240-67660-51	C-7878-072516-SSH-6035	Total/NA	Solid	Moisture	240956
240-67660-52	C-7878-072516-SSH-6034	Total/NA	Solid	Moisture	240956
240-67660-55	C-7878-072516-SSH-6033	Total/NA	Solid	Moisture	240956
240-67660-57	C-7878-072516-SSH-6052	Total/NA	Solid	Moisture	240956
240-67660-37 DU	C-7878-072516-SSH-6029	Total/NA	Solid	Moisture	240956

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-241253/10-A
Matrix: Solid
Analysis Batch: 241515

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 241253

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	200	U	200	72	ug/Kg		08/04/16 13:07	08/07/16 17:01	1
Aroclor-1221	200	U	200	96	ug/Kg		08/04/16 13:07	08/07/16 17:01	1
Aroclor-1232	200	U	200	120	ug/Kg		08/04/16 13:07	08/07/16 17:01	1
Aroclor-1242	200	U	200	66	ug/Kg		08/04/16 13:07	08/07/16 17:01	1
Aroclor-1248	200	U	200	48	ug/Kg		08/04/16 13:07	08/07/16 17:01	1
Aroclor-1254	200	U	200	84	ug/Kg		08/04/16 13:07	08/07/16 17:01	1
Aroclor-1260	200	U	200	54	ug/Kg		08/04/16 13:07	08/07/16 17:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*95*		*14 - 128*	*08/04/16 13:07*	*08/07/16 17:01*	*1*
DCB Decachlorobiphenyl	*71*		*10 - 132*	*08/04/16 13:07*	*08/07/16 17:01*	*1*

Lab Sample ID: LCS 240-241253/11-A
Matrix: Solid
Analysis Batch: 241515

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 241253

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor-1016			2000	1430		ug/Kg		71	47 - 120		
Aroclor-1260			2000	1400		ug/Kg		70	46 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*86*		*14 - 128*
DCB Decachlorobiphenyl	*65*		*10 - 132*

Lab Sample ID: 240-67660-57 MS
Matrix: Solid
Analysis Batch: 241515

Client Sample ID: C-7878-072516-SSH-6052
Prep Type: Total/NA
Prep Batch: 241253

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor-1016	200	U	2030	1340		ug/Kg	☼	66	31 - 120		
Aroclor-1260	200	U	2030	1530		ug/Kg	☼	75	21 - 122		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*63*		*14 - 128*
DCB Decachlorobiphenyl	*58*		*10 - 132*

Lab Sample ID: 240-67660-57 MSD
Matrix: Solid
Analysis Batch: 241515

Client Sample ID: C-7878-072516-SSH-6052
Prep Type: Total/NA
Prep Batch: 241253

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor-1016	200	U	2020	1320		ug/Kg	☼	65	31 - 120	1	30
Aroclor-1260	200	U	2020	1500		ug/Kg	☼	74	21 - 122	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*72*		*14 - 128*
DCB Decachlorobiphenyl	*55*		*10 - 132*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-2

Method: Moisture - Percent Moisture

Lab Sample ID: 240-67660-37 DU
Matrix: Solid
Analysis Batch: 241285

Client Sample ID: C-7878-072516-SSH-6029
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Solids	98.6			98.5		%				0.1	20
Percent Moisture	1.4			1.5		%				6	20

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	TCX2 (14-128)	DCB2 (10-132)								
240-67660-37	C-7878-072516-SSH-6029	71	71								
240-67660-38	C-7878-072516-SSH-6041	72	73								
240-67660-45	C-7878-072516-SSH-6032	135 X	125								
240-67660-51	C-7878-072516-SSH-6035	70	67								
240-67660-52	C-7878-072516-SSH-6034	121 p	1237 X								
240-67660-55	C-7878-072516-SSH-6033	114	107								
240-67660-57	C-7878-072516-SSH-6052	64	49								
240-67660-57 MS	C-7878-072516-SSH-6052	63	58								
240-67660-57 MSD	C-7878-072516-SSH-6052	72	55								
LCS 240-241253/11-A	Lab Control Sample	86	65								
MB 240-241253/10-A	Method Blank	95	71								

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

Client Sample ID: C-7878-072516-SSH-6029 — Lab Sample ID: 240-67660-37

Date Collected: 07/25/16 12:15 — **Matrix: Solid**
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240956	08/03/16 07:22	RB1	TAL CAN
Total/NA	Analysis	Moisture		1	241285	08/04/16 14:45	BLW	TAL CAN

Client Sample ID: C-7878-072516-SSH-6029 — Lab Sample ID: 240-67660-37

Date Collected: 07/25/16 12:15 — **Matrix: Solid**
Date Received: 07/27/16 09:30 — **Percent Solids: 98.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240956	08/03/16 07:22	RB1	TAL CAN
Total/NA	Prep	3540C			241253	08/04/16 13:07	SDE	TAL CAN
Total/NA	Analysis	8082		5	241515	08/07/16 14:17	KMG	TAL CAN

Client Sample ID: C-7878-072516-SSH-6041 — Lab Sample ID: 240-67660-38

Date Collected: 07/25/16 13:20 — **Matrix: Solid**
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240956	08/03/16 07:22	RB1	TAL CAN
Total/NA	Analysis	Moisture		1	241285	08/04/16 14:45	BLW	TAL CAN

Client Sample ID: C-7878-072516-SSH-6041 — Lab Sample ID: 240-67660-38

Date Collected: 07/25/16 13:20 — **Matrix: Solid**
Date Received: 07/27/16 09:30 — **Percent Solids: 97.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240956	08/03/16 07:22	RB1	TAL CAN
Total/NA	Prep	3540C			241253	08/04/16 13:07	SDE	TAL CAN
Total/NA	Analysis	8082		5	241515	08/07/16 14:36	KMG	TAL CAN

Client Sample ID: C-7878-072516-SSH-6032 — Lab Sample ID: 240-67660-45

Date Collected: 07/25/16 13:55 — **Matrix: Solid**
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240956	08/03/16 07:22	RB1	TAL CAN
Total/NA	Analysis	Moisture		1	241285	08/04/16 14:45	BLW	TAL CAN

Client Sample ID: C-7878-072516-SSH-6032 — Lab Sample ID: 240-67660-45

Date Collected: 07/25/16 13:55 — **Matrix: Solid**
Date Received: 07/27/16 09:30 — **Percent Solids: 93.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240956	08/03/16 07:22	RB1	TAL CAN

Client Sample ID: C-7878-072516-SSH-6032 — Lab Sample ID: 240-67660-45

Date Collected: 07/25/16 13:55 — **Matrix: Solid**
Date Received: 07/27/16 09:30 — **Percent Solids: 93.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			241253	08/04/16 13:07	SDE	TAL CAN
Total/NA	Analysis	8082		1	241515	08/07/16 14:54	KMG	TAL CAN

Client Sample ID: C-7878-072516-SSH-6035 — Lab Sample ID: 240-67660-51

Date Collected: 07/25/16 14:25 — **Matrix: Solid**
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240956	08/03/16 07:22	RB1	TAL CAN
Total/NA	Analysis	Moisture		1	241285	08/04/16 14:45	BLW	TAL CAN

Client Sample ID: C-7878-072516-SSH-6035 — Lab Sample ID: 240-67660-51

Date Collected: 07/25/16 14:25 — **Matrix: Solid**
Date Received: 07/27/16 09:30 — **Percent Solids: 93.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240956	08/03/16 07:22	RB1	TAL CAN
Total/NA	Prep	3540C			241253	08/04/16 13:07	SDE	TAL CAN
Total/NA	Analysis	8082		1	241515	08/07/16 15:12	KMG	TAL CAN

Client Sample ID: C-7878-072516-SSH-6034 — Lab Sample ID: 240-67660-52

Date Collected: 07/25/16 14:30 — **Matrix: Solid**
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240956	08/03/16 07:22	RB1	TAL CAN
Total/NA	Analysis	Moisture		1	241285	08/04/16 14:45	BLW	TAL CAN

Client Sample ID: C-7878-072516-SSH-6034 — Lab Sample ID: 240-67660-52

Date Collected: 07/25/16 14:30 — **Matrix: Solid**
Date Received: 07/27/16 09:30 — **Percent Solids: 98.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240956	08/03/16 07:22	RB1	TAL CAN
Total/NA	Prep	3540C			241253	08/04/16 13:07	SDE	TAL CAN
Total/NA	Analysis	8082		500	241515	08/07/16 15:30	KMG	TAL CAN

Client Sample ID: C-7878-072516-SSH-6033 — Lab Sample ID: 240-67660-55

Date Collected: 07/25/16 14:45 — **Matrix: Solid**
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240956	08/03/16 07:22	RB1	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-2

Client Sample ID: C-7878-072516-SSH-6033
Lab Sample ID: 240-67660-55
Date Collected: 07/25/16 14:45
Matrix: Solid
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	241285	08/04/16 14:45	BLW	TAL CAN

Client Sample ID: C-7878-072516-SSH-6033
Lab Sample ID: 240-67660-55
Date Collected: 07/25/16 14:45
Matrix: Solid
Date Received: 07/27/16 09:30
Percent Solids: 97.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240956	08/03/16 07:22	RB1	TAL CAN
Total/NA	Prep	3540C			241253	08/04/16 13:07	SDE	TAL CAN
Total/NA	Analysis	8082		5	241515	08/07/16 15:49	KMG	TAL CAN

Client Sample ID: C-7878-072516-SSH-6052
Lab Sample ID: 240-67660-57
Date Collected: 07/25/16 14:55
Matrix: Solid
Date Received: 07/27/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240956	08/03/16 07:22	RB1	TAL CAN
Total/NA	Analysis	Moisture		1	241285	08/04/16 14:45	BLW	TAL CAN

Client Sample ID: C-7878-072516-SSH-6052
Lab Sample ID: 240-67660-57
Date Collected: 07/25/16 14:55
Matrix: Solid
Date Received: 07/27/16 09:30
Percent Solids: 98.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			240956	08/03/16 07:22	RB1	TAL CAN
Total/NA	Prep	3540C			241253	08/04/16 13:07	SDE	TAL CAN
Total/NA	Analysis	8082		1	241515	08/07/16 16:07	KMG	TAL CAN

Laboratory References:

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

Certification Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-67660-2

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 (WW)	State Program	4	98016	12-31-16
Minnesota	NELAP	5	039-999-348	12-31-16
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	08-31-16 *
Texas	NELAP	6	T104704517-15-5	08-31-16 *
USDA	Federal		P330-13-00319	11-26-16
Virginia	NELAP	3	460175	09-14-16 *
Washington	State Program	10	C971	01-12-17
West Virginia DEP	State Program	3	210	12-31-16
Wisconsin	State Program	5	999518190	08-31-16 *

* Certification renewal pending - certification considered valid.

TestAmerica Michigan
10448 Citation Drive
Suite 200
Brighton, MI 48116
Phone: 810.229.2763 Fax:

2.8/C3.8

Chain of Custody Record

133906

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: M. Tomka	Site Contact: JE Pardys	Date: 7/25/16	COC No: 133906-133910
Company Name: GHD Services	Tel/Fax: 519 884 0510	Lab Contact: D. Heckler	Carrier: FedEx	1 of 5 COCs
Address: 14496 N. Sheldon Rd Ste 200	Analysis Turnaround Time			Sampler: S. Hoevemeyer
City/State/Zip: Plymouth, MI 48170	☐ CALENDAR DAYS ☒ WORKING DAYS			For Lab Use Only:
Phone: 734 453 5123	TAT if different from Below			Walk-in Client:
Fax:	☒ 7 2 weeks			Lab Sampling:
Project Name: RacoTrust SMI	☐ 1 week			
Site: 7878-T01-012 SSOW	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PLBS	Sample Specific Notes:
C-7878-072516-SSH-6000	7/25/16	0945	G	C	1	N	N	X	
-6001		0950	G	C	1	N	N	X	
-6002		1055	G	C	1	N	N	X	
-6003		1000	G	C	1	N	N	X	
-6004		1005	G	C	1	N	N	X	
-6005		1010	G	C	1	N	N	X	
-6006		1015	G	C	1	N	N	X	
-6007		1020	G	C	1	N	N	X	
-6008		1025	G	C	1	N	N	X	
-6009		1035	G	C	1	N	N	X	
-6010		1045	G	C	1	N	N	X	
C-7878-072516-SSH-6011		1100	G	C	1	N	N	X	

240-67660 Chain of Custody

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.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: 194217 | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ | Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	GHD	7/26/16 1600	[signature]	TA Can	7/27/16 09:30
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

TestAmerica Michigan
10448 Citation Drive
Suite 200
Brighton, MI 48116
Phone: 810.229.2763 Fax:

Chain of Custody Record

133907

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager:	Site Contact:	Date: 7/25/16	COC No: 133907
Company Name: GHD	Tel/Fax:	Lab Contact:	Carrier: T-Rail Ex	2 of 5 COCs
Address:	Analysis Turnaround Time			Sampler: S Hoevemeyer
City/State/Zip:	☐ CALENDAR DAYS ☒ WORKING DAYS			For Lab Use Only:
Phone:	TAT if different from Below _____			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: RacTrust SMT	☒ 1 week			
Site: 7878-T01-012 SSOW	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs	Sample Specific Notes:
C-7878-072516-SSH-6012	7/25/16	1105	G	C	1	N	N	X	
-6013		1110	G	C	1	N	N	X	
-6028		1115	G	C	1	N	N	X	
-6047		1120	G	C	1	N	N	X	
-6048		1125	G	C	1	N	N	X	
-6049		1130	G	C	1	N	N	X	
-6046		1135	G	C	1	N	N	X	
-6043		1140	G	C	1	N	N	X	
-6044		1145	G	C	1	N	N	X	
-6045		1150	G	C	1	N	N	X	
-6021		1155	G	C	1	N	N	X	
C-7878-072516-SSH-6022		1200	G	C	1	N	N	X	

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.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: 94217 | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ | Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	GHD	7/26/16 1600		TA Can	7/27/16 0930
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

TestAmerica Michigan
10448 Citation Drive
Suite 200
Brighton, MI 48116
Phone: 810.229.2763 Fax:

Chain of Custody Record

133908

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager:	Site Contact:	Date: 7/25/16	COC No: 133908
Company Name: GHD	Tel/Fax:	Lab Contact:	Carrier:	3 of 5 COCs
Address:	Analysis Turnaround Time			Sampler: S. Hoekmeyer
City/State/Zip:	☐ CALENDAR DAYS ☒ WORKING DAYS			For Lab Use Only:
Phone:	TAT if different from Below ____			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: RacerTrust SMI	☒ 1 week			
Site: 7878 - T01 - 012 SSOW	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs	Sample Specific Notes:
C-7878-072516-SSH-6023	7/25/16	1205	G	C	1	N	N	X	
-6014		1215	G	C	1	N	N	X	
-6015		1220	G	C	1	N	N	X	
-6016		1225	G	C	1	N	N	X	
-6017		1230	G	C	1	N	N	X	
-6018		1235	G	C	1	N	N	X	
-6019		1240	G	C	1	N	N	X	
-6020		1245	G	C	1	N	N	X	
-6024		1250	G	C	1	N	N	X	
-6025		1255	G	C	1	N	N	X	
-6026		1300	G	C	1	N	N	X	
C-7878-072516-SSH-6027		1305	G	C	1	N	N	X	

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.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: 794217 | Cooler Temp. (°C): Obs'd: ____ Corr'd: ____ | Therm ID No.: ____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	GHD	7/26/16 1600	Gary Burns	TA Canton	7/27/16 0930
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

TestAmerica Michigan
10448 Citation Drive
Suite 200
Brighton, MI 48116
Phone: 810.229.2763 Fax:

Chain of Custody Record

133909

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager:	Site Contact:	Date: 7/25/16	COC No: 133909
Company Name: GHD	Tel/Fax:	Lab Contact:	Carrier:	4 of 5 COCs
Address:	Analysis Turnaround Time			Sampler: S. Hoevemeyer
City/State/Zip:	☐ CALENDAR DAYS ☒ WORKING DAYS			For Lab Use Only:
Phone:	TAT if different from Below _____			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: RacTrust SMI	☒ 1 week			
Site: 7B7B-T01-012 SSOW	☐ 2 days			Job / SDG No.:
PO #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs	Sample Specific Notes:
C-7B7B-072516-SSH-6029	7/25/16	1315	G	C	1	N	N	X	Hold
-6041		1320	G	C	1	N	N	X	Hold
-6042		1325	G	C	1	N	N	X	Hold
-6054		1330	G	C	1	N	N	X	Hold
-6055		1335	G	C	1	N	N	X	
-6056		1340	G	C	1	N	N	X	
-6039		1345	G	C	1	N	N	X	
-6040		1350	G	C	1	N	N	X	
-6032		1355	G	C	1	N	N	X	Hold
-6031		1400	G	C	1	N	N	X	
-6036		1405	G	C	1	N	N	X	
C-7B7B-072516-SSH -6053		1410	G	C	1	N	N	X	

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.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: Hold per GHD

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.: 794217	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____	Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	GHD	7/26/16 1600	[signature]	TA Can	7/27/16 0930
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

8/8/2016

TestAmerica Michigan
10448 Citation Drive
Suite 200
Brighton, MI 48116
Phone: 810.229.2763 Fax:

Chain of Custody Record

133910

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager:	Site Contact:	Date:	COC No: 133910
Company Name: GHD	Tel/Fax:	Lab Contact:	Carrier:	5 of 5 COCs
Address:	Analysis Turnaround Time			Sampler: S. Hartmeyer
City/State/Zip:	☐ CALENDAR DAYS ☒ WORKING DAYS			For Lab Use Only:
Phone:	TAT if different from Below _____			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Raw Trust SMI	☒ 1 week			
Site: SSOW 7878-101-012	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs	Sample Specific Notes:
C-7878-072516-SSH-6037	7/25/16	1415	G	C	1	N	N	X	
-6050		1420	G	C	1	N	N	X	
-6035		1425	G	C	1	N	N	X	Hold
-6034		1430	G	C	1	N	N	X	Hold
-6030		1435	G	C	1	N	N	X	
-6038		1440	G	C	1	N	N	X	
-6033		1445	G	C	1	N	N	X	Hold
-6051		1450	G	C	1	N	N	X	
C-7878-072516-SSH-6052		1455	G	C	1	N	N	X	Hold

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.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: Hold per GHD

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.: 794217	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____	Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	GHD	7/26/16 1600	[signature]	TA	7/27/16 0930
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

TestAmerica Canton Sample Receipt Form/Narrative **Login # : 607060**

Canton Facility

Client GHD Site Name _____ Cooler unpacked by: Amy Burns

Cooler Received on 7/27/16 Opened on 7/27/16

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # _____ Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN# IR-8 (CF +1.3 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

IR GUN #36 (CF +1.0°C) Observed Cooler Temp. 2.8 °C Corrected Cooler Temp. 3.8 °C

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1	Yes	No
-Were custody seals on the outside of the cooler(s) signed & dated?	Yes	No NA
-Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	No
3. Shippers' packing slip attached to the cooler(s)?	Yes	No
4. Did custody papers accompany the sample(s)?	Yes	No
5. Were the custody papers relinquished & signed in the appropriate place?	Yes	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	No
7. Did all bottles arrive in good condition (Unbroken)?	Yes	No
8. Could all bottle labels be reconciled with the COC?	Yes	No
9. Were correct bottle(s) used for the test(s) indicated?	Yes	No
10. Sufficient quantity received to perform indicated analyses?	Yes	No
11. Are these work share samples?	Yes	No
If yes, Questions 11-15 have been checked at the originating laboratory.		
11. Were sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# HC574756
12. Were VOAs on the COC?	Yes	No
13. Were air bubbles >6 mm in any VOA vials?	Yes	No NA
14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____	Yes	No
15. Was a LL Hg or Me Hg trip blank present? _____	Yes	No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by:

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

Ref: SOP NC-SC-0005, Sample Receiving

L:\QAQC\QA Department\QA TARDIS\Document Control\Work Instructions\In Revision\WI-NC-099-061316 Cooler Receipt Form.doc djl



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: 240-68013-1
Client Project/Site: 7878, RACER SMI

For:
GHD Services Inc.
14496 Sheldon Road, Suite 200
Plymouth, Michigan 48170

Attn: Rawa Fleisher

Denise D Heckler

Authorized for release by:
8/11/2016 2:09:33 PM

Denise Heckler, Project Manager II
(330)966-9477
denise.heckler@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: 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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Job ID: 240-68013-1

Laboratory: TestAmerica Canton

Narrative

Job Narrative
240-68013-1

Comments
No additional comments.

Receipt
The samples were received on 8/5/2016 9:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.5º C.

GC Semi VOA
Method(s) 8082: The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: C-7878-080416-SSH-001 (240-68013-33), C-7878-080416-SSH-002 (240-68013-34) and C-7878-080416-SSH-003 (240-68013-35). 2641676, 2103100, 2283703.

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: C-7878-080416-SSH-6075 (240-68013-14). Due to the poor match with the Aroclor standards, there is increased qualitative and quantitative uncertainty associated with this result.

Method(s) 8082: The following samples 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: C-7878-080416-SSH-6080 (240-68013-18), C-7878-080416-SSH-6077 (240-68013-19), C-7878-080416-SSH-6078 (240-68013-20), C-7878-080416-SSH-6057 (240-68013-21), C-7878-080416-SSH-6058 (240-68013-22), C-7878-080416-SSH-6063 (240-68013-23), C-7878-080416-SSH-6064 (240-68013-24), C-7878-080416-SSH-6061 (240-68013-25), C-7878-080416-SSH-6062 (240-68013-26), C-7878-080416-SSH-6059 (240-68013-27), C-7878-080416-SSH-6070 (240-68013-28), C-7878-080416-SSH-6069 (240-68013-29), C-7878-080416-SSH-6072 (240-68013-30), C-7878-080416-SSH-6071 (240-68013-31) and C-7878-080416-SSH-6060 (240-68013-32). Due to the poor match with the Aroclor standards, there is increased qualitative and quantitative uncertainty associated with this result.

Method(s) 8082: The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: C-7878-080416-SSH-004 (240-68013-36), C-7878-080416-SSH-005 (240-68013-37) and C-7878-080416-SSH-006 (240-68013-38). 2641676, 2103100, 2283703.

Method(s) 8082: The following sample required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: C-7878-080416-SSH-6059 (240-68013-27). 2641677, 2103098, 2283705.

Method(s) 8082: The following sample was diluted due to the nature of the sample matrix: C-7878-080416-SSH-6076 (240-68013-16). Elevated reporting limits (RLs) are provided. Client requested reporting limit achieved

Method(s) 8082: The following sample was diluted due to the nature of the sample matrix: C-7878-080416-SSH-6073 (240-68013-13). Elevated reporting limits (RLs) are provided. The client specific reporting limit was still achieved.

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

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

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

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
F1	MS and/or MSD Recovery 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.
X	Surrogate is outside control limits
F2	MS/MSD RPD exceeds control limits

General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit

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
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)

Sample Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-68013-9	C-7878-080416-SSH-6065	Solid	08/04/16 09:45	08/05/16 09:20
240-68013-10	C-7878-080416-SSH-6066	Solid	08/04/16 09:50	08/05/16 09:20
240-68013-11	C-7878-080416-SSH-6067	Solid	08/04/16 09:55	08/05/16 09:20
240-68013-12	C-7878-080416-SSH-6068	Solid	08/04/16 10:00	08/05/16 09:20
240-68013-13	C-7878-080416-SSH-6073	Solid	08/04/16 10:10	08/05/16 09:20
240-68013-14	C-7878-080416-SSH-6075	Solid	08/04/16 10:15	08/05/16 09:20
240-68013-15	C-7878-080416-SSH-6074	Solid	08/04/16 10:20	08/05/16 09:20
240-68013-16	C-7878-080416-SSH-6076	Solid	08/04/16 10:25	08/05/16 09:20
240-68013-17	C-7878-080416-SSH-6079	Solid	08/04/16 10:30	08/05/16 09:20
240-68013-18	C-7878-080416-SSH-6080	Solid	08/04/16 10:35	08/05/16 09:20
240-68013-19	C-7878-080416-SSH-6077	Solid	08/04/16 10:45	08/05/16 09:20
240-68013-20	C-7878-080416-SSH-6078	Solid	08/04/16 10:50	08/05/16 09:20
240-68013-21	C-7878-080416-SSH-6057	Solid	08/04/16 10:55	08/05/16 09:20
240-68013-22	C-7878-080416-SSH-6058	Solid	08/04/16 11:00	08/05/16 09:20
240-68013-23	C-7878-080416-SSH-6063	Solid	08/04/16 11:10	08/05/16 09:20
240-68013-24	C-7878-080416-SSH-6064	Solid	08/04/16 11:15	08/05/16 09:20
240-68013-25	C-7878-080416-SSH-6061	Solid	08/04/16 11:20	08/05/16 09:20
240-68013-26	C-7878-080416-SSH-6062	Solid	08/04/16 11:25	08/05/16 09:20
240-68013-27	C-7878-080416-SSH-6059	Solid	08/04/16 11:30	08/05/16 09:20
240-68013-28	C-7878-080416-SSH-6070	Solid	08/04/16 11:35	08/05/16 09:20
240-68013-29	C-7878-080416-SSH-6069	Solid	08/04/16 11:40	08/05/16 09:20
240-68013-30	C-7878-080416-SSH-6072	Solid	08/04/16 11:45	08/05/16 09:20
240-68013-31	C-7878-080416-SSH-6071	Solid	08/04/16 11:50	08/05/16 09:20
240-68013-32	C-7878-080416-SSH-6060	Solid	08/04/16 11:55	08/05/16 09:20
240-68013-33	C-7878-080416-SSH-001	Solid	08/04/16 12:15	08/05/16 09:20
240-68013-34	C-7878-080416-SSH-002	Solid	08/04/16 12:20	08/05/16 09:20
240-68013-35	C-7878-080416-SSH-003	Solid	08/04/16 12:25	08/05/16 09:20
240-68013-36	C-7878-080416-SSH-004	Solid	08/04/16 12:30	08/05/16 09:20
240-68013-37	C-7878-080416-SSH-005	Solid	08/04/16 12:35	08/05/16 09:20
240-68013-38	C-7878-080416-SSH-006	Solid	08/04/16 12:40	08/05/16 09:20
240-68013-39	C-7878-080416-SSH-007	Solid	08/04/16 12:45	08/05/16 09:20
240-68013-41	C-7878-080416-SSH-009	Solid	08/04/16 12:55	08/05/16 09:20

Detection Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-1

Client Sample ID: C-7878-080416-SSH-6065 — Lab Sample ID: 240-68013-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	2700		1000	420	ug/Kg	5	☼	8082	Total/NA

Client Sample ID: C-7878-080416-SSH-6066 — Lab Sample ID: 240-68013-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	1900		1000	420	ug/Kg	5	☼	8082	Total/NA

Client Sample ID: C-7878-080416-SSH-6067 — Lab Sample ID: 240-68013-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	4500		980	420	ug/Kg	5	☼	8082	Total/NA

Client Sample ID: C-7878-080416-SSH-6068 — Lab Sample ID: 240-68013-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	7800		2000	830	ug/Kg	10	☼	8082	Total/NA

Client Sample ID: C-7878-080416-SSH-6073 — Lab Sample ID: 240-68013-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	390	J	400	170	ug/Kg	2	☼	8082	Total/NA

Client Sample ID: C-7878-080416-SSH-6075 — Lab Sample ID: 240-68013-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	1700		1000	420	ug/Kg	5	☼	8082	Total/NA

Client Sample ID: C-7878-080416-SSH-6074 — Lab Sample ID: 240-68013-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	2600		1000	420	ug/Kg	5	☼	8082	Total/NA

Client Sample ID: C-7878-080416-SSH-6076 — Lab Sample ID: 240-68013-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	440	J	1000	430	ug/Kg	5	☼	8082	Total/NA

Client Sample ID: C-7878-080416-SSH-6079 — Lab Sample ID: 240-68013-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	1400		1200	490	ug/Kg	5	☼	8082	Total/NA

Client Sample ID: C-7878-080416-SSH-6080 — Lab Sample ID: 240-68013-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	3800		1100	480	ug/Kg	5	☼	8082	Total/NA

Client Sample ID: C-7878-080416-SSH-6077 — Lab Sample ID: 240-68013-19

This Detection Summary does not include radiochemical test results.

Client Sample ID: C-7878-080416-SSH-6077 (Continued) — Lab Sample ID: 240-68013-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	4300		2000	850	ug/Kg	10	☼	8082	Total/NA

Client Sample ID: C-7878-080416-SSH-6078 — Lab Sample ID: 240-68013-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	9200		2000	860	ug/Kg	10	☼	8082	Total/NA

Client Sample ID: C-7878-080416-SSH-6057 — Lab Sample ID: 240-68013-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	8400		2000	830	ug/Kg	10	☼	8082	Total/NA

Client Sample ID: C-7878-080416-SSH-6058 — Lab Sample ID: 240-68013-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	5800		2000	850	ug/Kg	10	☼	8082	Total/NA

Client Sample ID: C-7878-080416-SSH-6063 — Lab Sample ID: 240-68013-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	2700		1000	430	ug/Kg	5	☼	8082	Total/NA

Client Sample ID: C-7878-080416-SSH-6064 — Lab Sample ID: 240-68013-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	7800		2000	850	ug/Kg	10	☼	8082	Total/NA

Client Sample ID: C-7878-080416-SSH-6061 — Lab Sample ID: 240-68013-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	25000		4000	1700	ug/Kg	20	☼	8082	Total/NA

Client Sample ID: C-7878-080416-SSH-6062 — Lab Sample ID: 240-68013-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	150000		20000	8300	ug/Kg	100	☼	8082	Total/NA

Client Sample ID: C-7878-080416-SSH-6059 — Lab Sample ID: 240-68013-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	11000		2100	880	ug/Kg	10	☼	8082	Total/NA

Client Sample ID: C-7878-080416-SSH-6070 — Lab Sample ID: 240-68013-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	4400		2000	850	ug/Kg	10	☼	8082	Total/NA

Client Sample ID: C-7878-080416-SSH-6069 — Lab Sample ID: 240-68013-29

This Detection Summary does not include radiochemical test results.

Client Sample ID: C-7878-080416-SSH-6069 (Continued) — Lab Sample ID: 240-68013-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	1500		1100	450	ug/Kg	5	☼	8082	Total/NA

Client Sample ID: C-7878-080416-SSH-6072 — Lab Sample ID: 240-68013-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	5100		2000	850	ug/Kg	10	☼	8082	Total/NA

Client Sample ID: C-7878-080416-SSH-6071 — Lab Sample ID: 240-68013-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	4600		2300	990	ug/Kg	10	☼	8082	Total/NA

Client Sample ID: C-7878-080416-SSH-6060 — Lab Sample ID: 240-68013-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	11000		2000	850	ug/Kg	10	☼	8082	Total/NA

Client Sample ID: C-7878-080416-SSH-001 — Lab Sample ID: 240-68013-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	2000		450	190	ug/Kg	2	☼	8082	Total/NA

Client Sample ID: C-7878-080416-SSH-002 — Lab Sample ID: 240-68013-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	280		200	86	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: C-7878-080416-SSH-003 — Lab Sample ID: 240-68013-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	15000		2000	840	ug/Kg	10	☼	8082	Total/NA

Client Sample ID: C-7878-080416-SSH-004 — Lab Sample ID: 240-68013-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	20000		3900	1700	ug/Kg	20	☼	8082	Total/NA

Client Sample ID: C-7878-080416-SSH-005 — Lab Sample ID: 240-68013-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	6900		2400	1000	ug/Kg	10	☼	8082	Total/NA

Client Sample ID: C-7878-080416-SSH-006 — Lab Sample ID: 240-68013-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	5300		2000	850	ug/Kg	10	☼	8082	Total/NA

Client Sample ID: C-7878-080416-SSH-007 — Lab Sample ID: 240-68013-39

This Detection Summary does not include radiochemical test results.

Client Sample ID: C-7878-080416-SSH-007 (Continued) — Lab Sample ID: 240-68013-39

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	1900		250	110	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: C-7878-080416-SSH-009 — Lab Sample ID: 240-68013-41

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	7700		2000	850	ug/Kg	10	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-1

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
Moisture	Percent Moisture	EPA	TAL CAN

Protocol References:

EPA = US Environmental Protection Agency

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

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-080416-SSH-6065
Date Collected: 08/04/16 09:45
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-9
Matrix: Solid
Percent Solids: 99.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	1000	U	1000	360	ug/Kg	☼	08/08/16 08:06	08/10/16 10:59	5
Aroclor-1221	1000	U	1000	480	ug/Kg	☼	08/08/16 08:06	08/10/16 10:59	5
Aroclor-1232	1000	U	1000	600	ug/Kg	☼	08/08/16 08:06	08/10/16 10:59	5
Aroclor-1242	1000	U	1000	330	ug/Kg	☼	08/08/16 08:06	08/10/16 10:59	5
Aroclor-1248	1000	U	1000	240	ug/Kg	☼	08/08/16 08:06	08/10/16 10:59	5
Aroclor-1254	**2700**		1000	420	ug/Kg	☼	08/08/16 08:06	08/10/16 10:59	5
Aroclor-1260	1000	U	1000	270	ug/Kg	☼	08/08/16 08:06	08/10/16 10:59	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*93*		*14 - 128*	*08/08/16 08:06*	*08/10/16 10:59*	*5*
DCB Decachlorobiphenyl	*85*		*10 - 132*	*08/08/16 08:06*	*08/10/16 10:59*	*5*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-080416-SSH-6066
Date Collected: 08/04/16 09:50
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-10
Matrix: Solid
Percent Solids: 98.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	1000	U	1000	360	ug/Kg	☼	08/08/16 08:06	08/10/16 11:18	5
Aroclor-1221	1000	U	1000	480	ug/Kg	☼	08/08/16 08:06	08/10/16 11:18	5
Aroclor-1232	1000	U	1000	610	ug/Kg	☼	08/08/16 08:06	08/10/16 11:18	5
Aroclor-1242	1000	U	1000	330	ug/Kg	☼	08/08/16 08:06	08/10/16 11:18	5
Aroclor-1248	1000	U	1000	240	ug/Kg	☼	08/08/16 08:06	08/10/16 11:18	5
Aroclor-1254	**1900**		1000	420	ug/Kg	☼	08/08/16 08:06	08/10/16 11:18	5
Aroclor-1260	1000	U	1000	270	ug/Kg	☼	08/08/16 08:06	08/10/16 11:18	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*86*		*14 - 128*	*08/08/16 08:06*	*08/10/16 11:18*	*5*
DCB Decachlorobiphenyl	*73*		*10 - 132*	*08/08/16 08:06*	*08/10/16 11:18*	*5*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-080416-SSH-6067
Date Collected: 08/04/16 09:55
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-11
Matrix: Solid
Percent Solids: 98.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	980	U	980	360	ug/Kg	☼	08/08/16 08:06	08/10/16 11:36	5
Aroclor-1221	980	U	980	480	ug/Kg	☼	08/08/16 08:06	08/10/16 11:36	5
Aroclor-1232	980	U	980	600	ug/Kg	☼	08/08/16 08:06	08/10/16 11:36	5
Aroclor-1242	980	U	980	330	ug/Kg	☼	08/08/16 08:06	08/10/16 11:36	5
Aroclor-1248	980	U	980	240	ug/Kg	☼	08/08/16 08:06	08/10/16 11:36	5
Aroclor-1254	**4500**		980	420	ug/Kg	☼	08/08/16 08:06	08/10/16 11:36	5
Aroclor-1260	980	U	980	270	ug/Kg	☼	08/08/16 08:06	08/10/16 11:36	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*90*		*14 - 128*	*08/08/16 08:06*	*08/10/16 11:36*	*5*
DCB Decachlorobiphenyl	*78*		*10 - 132*	*08/08/16 08:06*	*08/10/16 11:36*	*5*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-080416-SSH-6068
Date Collected: 08/04/16 10:00
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-12
Matrix: Solid
Percent Solids: 99.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2000	U	2000	710	ug/Kg	☼	08/08/16 09:16	08/10/16 09:22	10
Aroclor-1221	2000	U	2000	950	ug/Kg	☼	08/08/16 09:16	08/10/16 09:22	10
Aroclor-1232	2000	U	2000	1200	ug/Kg	☼	08/08/16 09:16	08/10/16 09:22	10
Aroclor-1242	2000	U	2000	650	ug/Kg	☼	08/08/16 09:16	08/10/16 09:22	10
Aroclor-1248	2000	U	2000	480	ug/Kg	☼	08/08/16 09:16	08/10/16 09:22	10
Aroclor-1254	**7800**		2000	830	ug/Kg	☼	08/08/16 09:16	08/10/16 09:22	10
Aroclor-1260	2000	U F1	2000	530	ug/Kg	☼	08/08/16 09:16	08/10/16 09:22	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*14 - 128*	*08/08/16 09:16*	*08/10/16 09:22*	*10*
DCB Decachlorobiphenyl	*92*		*10 - 132*	*08/08/16 09:16*	*08/10/16 09:22*	*10*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-080416-SSH-6073
Date Collected: 08/04/16 10:10
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-13
Matrix: Solid
Percent Solids: 96.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	400	U	400	140	ug/Kg	☼	08/08/16 08:26	08/11/16 11:48	2
Aroclor-1221	400	U	400	190	ug/Kg	☼	08/08/16 08:26	08/11/16 11:48	2
Aroclor-1232	400	U	400	240	ug/Kg	☼	08/08/16 08:26	08/11/16 11:48	2
Aroclor-1242	400	U	400	130	ug/Kg	☼	08/08/16 08:26	08/11/16 11:48	2
Aroclor-1248	400	U	400	96	ug/Kg	☼	08/08/16 08:26	08/11/16 11:48	2
Aroclor-1254	**390**	**J**	400	170	ug/Kg	☼	08/08/16 08:26	08/11/16 11:48	2
Aroclor-1260	400	U	400	110	ug/Kg	☼	08/08/16 08:26	08/11/16 11:48	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*89*		*14 - 128*	*08/08/16 08:26*	*08/11/16 11:48*	*2*
DCB Decachlorobiphenyl	*102*		*10 - 132*	*08/08/16 08:26*	*08/11/16 11:48*	*2*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-080416-SSH-6075
Date Collected: 08/04/16 10:15
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-14
Matrix: Solid
Percent Solids: 97.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	1000	U	1000	360	ug/Kg	☼	08/08/16 08:26	08/10/16 22:36	5
Aroclor-1221	1000	U	1000	480	ug/Kg	☼	08/08/16 08:26	08/10/16 22:36	5
Aroclor-1232	1000	U	1000	600	ug/Kg	☼	08/08/16 08:26	08/10/16 22:36	5
Aroclor-1242	1000	U	1000	330	ug/Kg	☼	08/08/16 08:26	08/10/16 22:36	5
Aroclor-1248	1000	U	1000	240	ug/Kg	☼	08/08/16 08:26	08/10/16 22:36	5
Aroclor-1254	**1700**		1000	420	ug/Kg	☼	08/08/16 08:26	08/10/16 22:36	5
Aroclor-1260	1000	U	1000	270	ug/Kg	☼	08/08/16 08:26	08/10/16 22:36	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*71*		*14 - 128*	*08/08/16 08:26*	*08/10/16 22:36*	*5*
DCB Decachlorobiphenyl	*78*		*10 - 132*	*08/08/16 08:26*	*08/10/16 22:36*	*5*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-080416-SSH-6074
Date Collected: 08/04/16 10:20
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-15
Matrix: Solid
Percent Solids: 96.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	1000	U	1000	360	ug/Kg	☼	08/08/16 08:26	08/10/16 22:54	5
Aroclor-1221	1000	U	1000	480	ug/Kg	☼	08/08/16 08:26	08/10/16 22:54	5
Aroclor-1232	1000	U	1000	610	ug/Kg	☼	08/08/16 08:26	08/10/16 22:54	5
Aroclor-1242	1000	U	1000	330	ug/Kg	☼	08/08/16 08:26	08/10/16 22:54	5
Aroclor-1248	1000	U	1000	240	ug/Kg	☼	08/08/16 08:26	08/10/16 22:54	5
Aroclor-1254	**2600**		1000	420	ug/Kg	☼	08/08/16 08:26	08/10/16 22:54	5
Aroclor-1260	1000	U	1000	270	ug/Kg	☼	08/08/16 08:26	08/10/16 22:54	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*14 - 128*	*08/08/16 08:26*	*08/10/16 22:54*	*5*
DCB Decachlorobiphenyl	*96*		*10 - 132*	*08/08/16 08:26*	*08/10/16 22:54*	*5*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-080416-SSH-6076
Date Collected: 08/04/16 10:25
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-16
Matrix: Solid
Percent Solids: 97.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	1000	U	1000	370	ug/Kg	☼	08/08/16 08:26	08/10/16 23:12	5
Aroclor-1221	1000	U	1000	490	ug/Kg	☼	08/08/16 08:26	08/10/16 23:12	5
Aroclor-1232	1000	U	1000	620	ug/Kg	☼	08/08/16 08:26	08/10/16 23:12	5
Aroclor-1242	1000	U	1000	340	ug/Kg	☼	08/08/16 08:26	08/10/16 23:12	5
Aroclor-1248	1000	U	1000	250	ug/Kg	☼	08/08/16 08:26	08/10/16 23:12	5
Aroclor-1254	**440**	**J**	1000	430	ug/Kg	☼	08/08/16 08:26	08/10/16 23:12	5
Aroclor-1260	1000	U	1000	280	ug/Kg	☼	08/08/16 08:26	08/10/16 23:12	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*77*		*14 - 128*	*08/08/16 08:26*	*08/10/16 23:12*	*5*
DCB Decachlorobiphenyl	*96*		*10 - 132*	*08/08/16 08:26*	*08/10/16 23:12*	*5*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-080416-SSH-6079
Date Collected: 08/04/16 10:30
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-17
Matrix: Solid
Percent Solids: 83.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	1200	U	1200	420	ug/Kg	☼	08/08/16 08:26	08/10/16 23:30	5
Aroclor-1221	1200	U	1200	560	ug/Kg	☼	08/08/16 08:26	08/10/16 23:30	5
Aroclor-1232	1200	U	1200	700	ug/Kg	☼	08/08/16 08:26	08/10/16 23:30	5
Aroclor-1242	1200	U	1200	390	ug/Kg	☼	08/08/16 08:26	08/10/16 23:30	5
Aroclor-1248	1200	U	1200	280	ug/Kg	☼	08/08/16 08:26	08/10/16 23:30	5
Aroclor-1254	**1400**		1200	490	ug/Kg	☼	08/08/16 08:26	08/10/16 23:30	5
Aroclor-1260	1200	U	1200	320	ug/Kg	☼	08/08/16 08:26	08/10/16 23:30	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*86*		*14 - 128*	*08/08/16 08:26*	*08/10/16 23:30*	*5*
DCB Decachlorobiphenyl	*100*		*10 - 132*	*08/08/16 08:26*	*08/10/16 23:30*	*5*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-080416-SSH-6080
Date Collected: 08/04/16 10:35
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-18
Matrix: Solid
Percent Solids: 78.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	1100	U	1100	410	ug/Kg	☼	08/08/16 08:26	08/10/16 23:49	5
Aroclor-1221	1100	U	1100	550	ug/Kg	☼	08/08/16 08:26	08/10/16 23:49	5
Aroclor-1232	1100	U	1100	690	ug/Kg	☼	08/08/16 08:26	08/10/16 23:49	5
Aroclor-1242	1100	U	1100	380	ug/Kg	☼	08/08/16 08:26	08/10/16 23:49	5
Aroclor-1248	1100	U	1100	280	ug/Kg	☼	08/08/16 08:26	08/10/16 23:49	5
Aroclor-1254	**3800**		1100	480	ug/Kg	☼	08/08/16 08:26	08/10/16 23:49	5
Aroclor-1260	1100	U	1100	310	ug/Kg	☼	08/08/16 08:26	08/10/16 23:49	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*66*		*14 - 128*	*08/08/16 08:26*	*08/10/16 23:49*	*5*
DCB Decachlorobiphenyl	*75*		*10 - 132*	*08/08/16 08:26*	*08/10/16 23:49*	*5*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-080416-SSH-6077
Date Collected: 08/04/16 10:45
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-19
Matrix: Solid
Percent Solids: 98.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2000	U	2000	730	ug/Kg	☼	08/08/16 08:26	08/11/16 00:07	10
Aroclor-1221	2000	U	2000	970	ug/Kg	☼	08/08/16 08:26	08/11/16 00:07	10
Aroclor-1232	2000	U	2000	1200	ug/Kg	☼	08/08/16 08:26	08/11/16 00:07	10
Aroclor-1242	2000	U	2000	670	ug/Kg	☼	08/08/16 08:26	08/11/16 00:07	10
Aroclor-1248	2000	U	2000	480	ug/Kg	☼	08/08/16 08:26	08/11/16 00:07	10
Aroclor-1254	**4300**		2000	850	ug/Kg	☼	08/08/16 08:26	08/11/16 00:07	10
Aroclor-1260	2000	U	2000	540	ug/Kg	☼	08/08/16 08:26	08/11/16 00:07	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*81*		*14 - 128*	*08/08/16 08:26*	*08/11/16 00:07*	*10*
DCB Decachlorobiphenyl	*111*		*10 - 132*	*08/08/16 08:26*	*08/11/16 00:07*	*10*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-080416-SSH-6078
Date Collected: 08/04/16 10:50
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-20
Matrix: Solid
Percent Solids: 97.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2000	U	2000	730	ug/Kg	☼	08/08/16 08:26	08/11/16 00:25	10
Aroclor-1221	2000	U	2000	980	ug/Kg	☼	08/08/16 08:26	08/11/16 00:25	10
Aroclor-1232	2000	U	2000	1200	ug/Kg	☼	08/08/16 08:26	08/11/16 00:25	10
Aroclor-1242	2000	U	2000	670	ug/Kg	☼	08/08/16 08:26	08/11/16 00:25	10
Aroclor-1248	2000	U	2000	490	ug/Kg	☼	08/08/16 08:26	08/11/16 00:25	10
Aroclor-1254	**9200**		2000	860	ug/Kg	☼	08/08/16 08:26	08/11/16 00:25	10
Aroclor-1260	2000	U	2000	550	ug/Kg	☼	08/08/16 08:26	08/11/16 00:25	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*14 - 128*	*08/08/16 08:26*	*08/11/16 00:25*	*10*
DCB Decachlorobiphenyl	*90*		*10 - 132*	*08/08/16 08:26*	*08/11/16 00:25*	*10*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-080416-SSH-6057
Date Collected: 08/04/16 10:55
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-21
Matrix: Solid
Percent Solids: 96.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2000	U	2000	710	ug/Kg	☼	08/08/16 08:26	08/11/16 00:43	10
Aroclor-1221	2000	U	2000	950	ug/Kg	☼	08/08/16 08:26	08/11/16 00:43	10
Aroclor-1232	2000	U	2000	1200	ug/Kg	☼	08/08/16 08:26	08/11/16 00:43	10
Aroclor-1242	2000	U	2000	660	ug/Kg	☼	08/08/16 08:26	08/11/16 00:43	10
Aroclor-1248	2000	U	2000	480	ug/Kg	☼	08/08/16 08:26	08/11/16 00:43	10
Aroclor-1254	**8400**		2000	830	ug/Kg	☼	08/08/16 08:26	08/11/16 00:43	10
Aroclor-1260	2000	U	2000	540	ug/Kg	☼	08/08/16 08:26	08/11/16 00:43	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*93*		*14 - 128*	*08/08/16 08:26*	*08/11/16 00:43*	*10*
DCB Decachlorobiphenyl	*101*		*10 - 132*	*08/08/16 08:26*	*08/11/16 00:43*	*10*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-080416-SSH-6058
Date Collected: 08/04/16 11:00
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-22
Matrix: Solid
Percent Solids: 98.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2000	U	2000	730	ug/Kg	☼	08/08/16 08:26	08/11/16 01:01	10
Aroclor-1221	2000	U	2000	970	ug/Kg	☼	08/08/16 08:26	08/11/16 01:01	10
Aroclor-1232	2000	U	2000	1200	ug/Kg	☼	08/08/16 08:26	08/11/16 01:01	10
Aroclor-1242	2000	U	2000	670	ug/Kg	☼	08/08/16 08:26	08/11/16 01:01	10
Aroclor-1248	2000	U	2000	480	ug/Kg	☼	08/08/16 08:26	08/11/16 01:01	10
Aroclor-1254	**5800**		2000	850	ug/Kg	☼	08/08/16 08:26	08/11/16 01:01	10
Aroclor-1260	2000	U	2000	550	ug/Kg	☼	08/08/16 08:26	08/11/16 01:01	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*85*		*14 - 128*	*08/08/16 08:26*	*08/11/16 01:01*	*10*
DCB Decachlorobiphenyl	*103*		*10 - 132*	*08/08/16 08:26*	*08/11/16 01:01*	*10*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-080416-SSH-6063
Date Collected: 08/04/16 11:10
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-23
Matrix: Solid
Percent Solids: 97.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	1000	U	1000	370	ug/Kg	☼	08/08/16 08:26	08/11/16 01:19	5
Aroclor-1221	1000	U	1000	490	ug/Kg	☼	08/08/16 08:26	08/11/16 01:19	5
Aroclor-1232	1000	U	1000	610	ug/Kg	☼	08/08/16 08:26	08/11/16 01:19	5
Aroclor-1242	1000	U	1000	340	ug/Kg	☼	08/08/16 08:26	08/11/16 01:19	5
Aroclor-1248	1000	U	1000	240	ug/Kg	☼	08/08/16 08:26	08/11/16 01:19	5
Aroclor-1254	**2700**		1000	430	ug/Kg	☼	08/08/16 08:26	08/11/16 01:19	5
Aroclor-1260	1000	U	1000	280	ug/Kg	☼	08/08/16 08:26	08/11/16 01:19	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*90*		*14 - 128*	*08/08/16 08:26*	*08/11/16 01:19*	*5*
DCB Decachlorobiphenyl	*93*		*10 - 132*	*08/08/16 08:26*	*08/11/16 01:19*	*5*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-080416-SSH-6064
Date Collected: 08/04/16 11:15
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-24
Matrix: Solid
Percent Solids: 97.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2000	U	2000	730	ug/Kg	☼	08/08/16 08:26	08/11/16 01:37	10
Aroclor-1221	2000	U	2000	970	ug/Kg	☼	08/08/16 08:26	08/11/16 01:37	10
Aroclor-1232	2000	U	2000	1200	ug/Kg	☼	08/08/16 08:26	08/11/16 01:37	10
Aroclor-1242	2000	U	2000	670	ug/Kg	☼	08/08/16 08:26	08/11/16 01:37	10
Aroclor-1248	2000	U	2000	480	ug/Kg	☼	08/08/16 08:26	08/11/16 01:37	10
Aroclor-1254	**7800**		2000	850	ug/Kg	☼	08/08/16 08:26	08/11/16 01:37	10
Aroclor-1260	2000	U	2000	540	ug/Kg	☼	08/08/16 08:26	08/11/16 01:37	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*77*		*14 - 128*	*08/08/16 08:26*	*08/11/16 01:37*	*10*
DCB Decachlorobiphenyl	*89*		*10 - 132*	*08/08/16 08:26*	*08/11/16 01:37*	*10*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-080416-SSH-6061
Date Collected: 08/04/16 11:20
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-25
Matrix: Solid
Percent Solids: 98.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	4000	U	4000	1500	ug/Kg	☼	08/08/16 08:26	08/11/16 01:55	20
Aroclor-1221	4000	U	4000	1900	ug/Kg	☼	08/08/16 08:26	08/11/16 01:55	20
Aroclor-1232	4000	U	4000	2400	ug/Kg	☼	08/08/16 08:26	08/11/16 01:55	20
Aroclor-1242	4000	U	4000	1300	ug/Kg	☼	08/08/16 08:26	08/11/16 01:55	20
Aroclor-1248	4000	U	4000	970	ug/Kg	☼	08/08/16 08:26	08/11/16 01:55	20
Aroclor-1254	**25000**		4000	1700	ug/Kg	☼	08/08/16 08:26	08/11/16 01:55	20
Aroclor-1260	4000	U	4000	1100	ug/Kg	☼	08/08/16 08:26	08/11/16 01:55	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*14 - 128*	*08/08/16 08:26*	*08/11/16 01:55*	*20*
DCB Decachlorobiphenyl	*83*		*10 - 132*	*08/08/16 08:26*	*08/11/16 01:55*	*20*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-080416-SSH-6062
Date Collected: 08/04/16 11:25
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-26
Matrix: Solid
Percent Solids: 98.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	20000	U	20000	7100	ug/Kg	☼	08/08/16 08:26	08/11/16 03:05	100
Aroclor-1221	20000	U	20000	9500	ug/Kg	☼	08/08/16 08:26	08/11/16 03:05	100
Aroclor-1232	20000	U	20000	12000	ug/Kg	☼	08/08/16 08:26	08/11/16 03:05	100
Aroclor-1242	20000	U	20000	6500	ug/Kg	☼	08/08/16 08:26	08/11/16 03:05	100
Aroclor-1248	20000	U	20000	4700	ug/Kg	☼	08/08/16 08:26	08/11/16 03:05	100
Aroclor-1254	**150000**		20000	8300	ug/Kg	☼	08/08/16 08:26	08/11/16 03:05	100
Aroclor-1260	20000	U	20000	5300	ug/Kg	☼	08/08/16 08:26	08/11/16 03:05	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*93*		*14 - 128*	*08/08/16 08:26*	*08/11/16 03:05*	*100*
DCB Decachlorobiphenyl	*187*	*X*	*10 - 132*	*08/08/16 08:26*	*08/11/16 03:05*	*100*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-080416-SSH-6059
Date Collected: 08/04/16 11:30
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-27
Matrix: Solid
Percent Solids: 94.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2100	U	2100	750	ug/Kg	☼	08/08/16 08:26	08/11/16 03:23	10
Aroclor-1221	2100	U	2100	1000	ug/Kg	☼	08/08/16 08:26	08/11/16 03:23	10
Aroclor-1232	2100	U	2100	1300	ug/Kg	☼	08/08/16 08:26	08/11/16 03:23	10
Aroclor-1242	2100	U	2100	690	ug/Kg	☼	08/08/16 08:26	08/11/16 03:23	10
Aroclor-1248	2100	U	2100	500	ug/Kg	☼	08/08/16 08:26	08/11/16 03:23	10
Aroclor-1254	**11000**		2100	880	ug/Kg	☼	08/08/16 08:26	08/11/16 03:23	10
Aroclor-1260	2100	U	2100	560	ug/Kg	☼	08/08/16 08:26	08/11/16 03:23	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*39*		*14 - 128*	*08/08/16 08:26*	*08/11/16 03:23*	*10*
DCB Decachlorobiphenyl	*90*		*10 - 132*	*08/08/16 08:26*	*08/11/16 03:23*	*10*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-080416-SSH-6070
Date Collected: 08/04/16 11:35
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-28
Matrix: Solid
Percent Solids: 99.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2000	U	2000	730	ug/Kg	☼	08/08/16 08:26	08/11/16 03:40	10
Aroclor-1221	2000	U	2000	970	ug/Kg	☼	08/08/16 08:26	08/11/16 03:40	10
Aroclor-1232	2000	U	2000	1200	ug/Kg	☼	08/08/16 08:26	08/11/16 03:40	10
Aroclor-1242	2000	U	2000	670	ug/Kg	☼	08/08/16 08:26	08/11/16 03:40	10
Aroclor-1248	2000	U	2000	480	ug/Kg	☼	08/08/16 08:26	08/11/16 03:40	10
Aroclor-1254	**4400**		2000	850	ug/Kg	☼	08/08/16 08:26	08/11/16 03:40	10
Aroclor-1260	2000	U	2000	550	ug/Kg	☼	08/08/16 08:26	08/11/16 03:40	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*14 - 128*	*08/08/16 08:26*	*08/11/16 03:40*	*10*
DCB Decachlorobiphenyl	*90*		*10 - 132*	*08/08/16 08:26*	*08/11/16 03:40*	*10*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-080416-SSH-6069
Date Collected: 08/04/16 11:40
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-29
Matrix: Solid
Percent Solids: 86.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	1100	U	1100	390	ug/Kg	☼	08/08/16 08:26	08/11/16 03:57	5
Aroclor-1221	1100	U	1100	520	ug/Kg	☼	08/08/16 08:26	08/11/16 03:57	5
Aroclor-1232	1100	U	1100	640	ug/Kg	☼	08/08/16 08:26	08/11/16 03:57	5
Aroclor-1242	1100	U	1100	350	ug/Kg	☼	08/08/16 08:26	08/11/16 03:57	5
Aroclor-1248	1100	U	1100	260	ug/Kg	☼	08/08/16 08:26	08/11/16 03:57	5
Aroclor-1254	**1500**		1100	450	ug/Kg	☼	08/08/16 08:26	08/11/16 03:57	5
Aroclor-1260	1100	U	1100	290	ug/Kg	☼	08/08/16 08:26	08/11/16 03:57	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*		*14 - 128*	*08/08/16 08:26*	*08/11/16 03:57*	*5*
DCB Decachlorobiphenyl	*85*		*10 - 132*	*08/08/16 08:26*	*08/11/16 03:57*	*5*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-080416-SSH-6072
Date Collected: 08/04/16 11:45
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-30
Matrix: Solid
Percent Solids: 98.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2000	U	2000	730	ug/Kg	☼	08/08/16 08:26	08/11/16 04:16	10
Aroclor-1221	2000	U	2000	980	ug/Kg	☼	08/08/16 08:26	08/11/16 04:16	10
Aroclor-1232	2000	U	2000	1200	ug/Kg	☼	08/08/16 08:26	08/11/16 04:16	10
Aroclor-1242	2000	U	2000	670	ug/Kg	☼	08/08/16 08:26	08/11/16 04:16	10
Aroclor-1248	2000	U	2000	490	ug/Kg	☼	08/08/16 08:26	08/11/16 04:16	10
Aroclor-1254	**5100**		2000	850	ug/Kg	☼	08/08/16 08:26	08/11/16 04:16	10
Aroclor-1260	2000	U	2000	550	ug/Kg	☼	08/08/16 08:26	08/11/16 04:16	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*76*		*14 - 128*	*08/08/16 08:26*	*08/11/16 04:16*	*10*
DCB Decachlorobiphenyl	*93*		*10 - 132*	*08/08/16 08:26*	*08/11/16 04:16*	*10*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-080416-SSH-6071
Date Collected: 08/04/16 11:50
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-31
Matrix: Solid
Percent Solids: 80.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2300	U	2300	850	ug/Kg	☼	08/08/16 08:26	08/11/16 04:34	10
Aroclor-1221	2300	U	2300	1100	ug/Kg	☼	08/08/16 08:26	08/11/16 04:34	10
Aroclor-1232	2300	U	2300	1400	ug/Kg	☼	08/08/16 08:26	08/11/16 04:34	10
Aroclor-1242	2300	U	2300	780	ug/Kg	☼	08/08/16 08:26	08/11/16 04:34	10
Aroclor-1248	2300	U	2300	560	ug/Kg	☼	08/08/16 08:26	08/11/16 04:34	10
Aroclor-1254	**4600**		2300	990	ug/Kg	☼	08/08/16 08:26	08/11/16 04:34	10
Aroclor-1260	2300	U	2300	630	ug/Kg	☼	08/08/16 08:26	08/11/16 04:34	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*87*		*14 - 128*	*08/08/16 08:26*	*08/11/16 04:34*	*10*
DCB Decachlorobiphenyl	*107*		*10 - 132*	*08/08/16 08:26*	*08/11/16 04:34*	*10*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-080416-SSH-6060
Date Collected: 08/04/16 11:55
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-32
Matrix: Solid
Percent Solids: 97.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2000	U F1 F2	2000	730	ug/Kg	☼	08/08/16 08:26	08/11/16 04:51	10
Aroclor-1221	2000	U	2000	980	ug/Kg	☼	08/08/16 08:26	08/11/16 04:51	10
Aroclor-1232	2000	U	2000	1200	ug/Kg	☼	08/08/16 08:26	08/11/16 04:51	10
Aroclor-1242	2000	U	2000	670	ug/Kg	☼	08/08/16 08:26	08/11/16 04:51	10
Aroclor-1248	2000	U	2000	490	ug/Kg	☼	08/08/16 08:26	08/11/16 04:51	10
Aroclor-1254	**11000**		2000	850	ug/Kg	☼	08/08/16 08:26	08/11/16 04:51	10
Aroclor-1260	2000	U F1 F2	2000	550	ug/Kg	☼	08/08/16 08:26	08/11/16 04:51	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*71*		*14 - 128*	*08/08/16 08:26*	*08/11/16 04:51*	*10*
DCB Decachlorobiphenyl	*87*		*10 - 132*	*08/08/16 08:26*	*08/11/16 04:51*	*10*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-080416-SSH-001
Date Collected: 08/04/16 12:15
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-33
Matrix: Solid
Percent Solids: 87.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	450	U	450	160	ug/Kg	☼	08/08/16 09:16	08/10/16 10:15	2
Aroclor-1221	450	U	450	220	ug/Kg	☼	08/08/16 09:16	08/10/16 10:15	2
Aroclor-1232	450	U	450	270	ug/Kg	☼	08/08/16 09:16	08/10/16 10:15	2
Aroclor-1242	450	U	450	150	ug/Kg	☼	08/08/16 09:16	08/10/16 10:15	2
Aroclor-1248	450	U	450	110	ug/Kg	☼	08/08/16 09:16	08/10/16 10:15	2
Aroclor-1254	**2000**		450	190	ug/Kg	☼	08/08/16 09:16	08/10/16 10:15	2
Aroclor-1260	450	U	450	120	ug/Kg	☼	08/08/16 09:16	08/10/16 10:15	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*67*		*14 - 128*	*08/08/16 09:16*	*08/10/16 10:15*	*2*
DCB Decachlorobiphenyl	*71*		*10 - 132*	*08/08/16 09:16*	*08/10/16 10:15*	*2*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-080416-SSH-002
Date Collected: 08/04/16 12:20
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-34
Matrix: Solid
Percent Solids: 97.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	200	U	200	74	ug/Kg	☼	08/08/16 09:16	08/10/16 10:33	1
Aroclor-1221	200	U	200	98	ug/Kg	☼	08/08/16 09:16	08/10/16 10:33	1
Aroclor-1232	200	U	200	120	ug/Kg	☼	08/08/16 09:16	08/10/16 10:33	1
Aroclor-1242	200	U	200	67	ug/Kg	☼	08/08/16 09:16	08/10/16 10:33	1
Aroclor-1248	200	U	200	49	ug/Kg	☼	08/08/16 09:16	08/10/16 10:33	1
Aroclor-1254	**280**		200	86	ug/Kg	☼	08/08/16 09:16	08/10/16 10:33	1
Aroclor-1260	200	U	200	55	ug/Kg	☼	08/08/16 09:16	08/10/16 10:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*58*		*14 - 128*	*08/08/16 09:16*	*08/10/16 10:33*	*1*
DCB Decachlorobiphenyl	*60*		*10 - 132*	*08/08/16 09:16*	*08/10/16 10:33*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-080416-SSH-003
Date Collected: 08/04/16 12:25
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-35
Matrix: Solid
Percent Solids: 98.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2000	U	2000	720	ug/Kg	☼	08/08/16 09:16	08/10/16 10:51	10
Aroclor-1221	2000	U	2000	960	ug/Kg	☼	08/08/16 09:16	08/10/16 10:51	10
Aroclor-1232	2000	U	2000	1200	ug/Kg	☼	08/08/16 09:16	08/10/16 10:51	10
Aroclor-1242	2000	U	2000	660	ug/Kg	☼	08/08/16 09:16	08/10/16 10:51	10
Aroclor-1248	2000	U	2000	480	ug/Kg	☼	08/08/16 09:16	08/10/16 10:51	10
Aroclor-1254	**15000**		2000	840	ug/Kg	☼	08/08/16 09:16	08/10/16 10:51	10
Aroclor-1260	2000	U	2000	540	ug/Kg	☼	08/08/16 09:16	08/10/16 10:51	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*71*		*14 - 128*	*08/08/16 09:16*	*08/10/16 10:51*	*10*
DCB Decachlorobiphenyl	*71*		*10 - 132*	*08/08/16 09:16*	*08/10/16 10:51*	*10*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-080416-SSH-004
Date Collected: 08/04/16 12:30
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-36
Matrix: Solid
Percent Solids: 97.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	3900	U	3900	1400	ug/Kg	☼	08/08/16 09:16	08/10/16 11:08	20
Aroclor-1221	3900	U	3900	1900	ug/Kg	☼	08/08/16 09:16	08/10/16 11:08	20
Aroclor-1232	3900	U	3900	2400	ug/Kg	☼	08/08/16 09:16	08/10/16 11:08	20
Aroclor-1242	3900	U	3900	1300	ug/Kg	☼	08/08/16 09:16	08/10/16 11:08	20
Aroclor-1248	3900	U	3900	950	ug/Kg	☼	08/08/16 09:16	08/10/16 11:08	20
Aroclor-1254	**20000**		3900	1700	ug/Kg	☼	08/08/16 09:16	08/10/16 11:08	20
Aroclor-1260	3900	U	3900	1100	ug/Kg	☼	08/08/16 09:16	08/10/16 11:08	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*67*		*14 - 128*	*08/08/16 09:16*	*08/10/16 11:08*	*20*
DCB Decachlorobiphenyl	*92*		*10 - 132*	*08/08/16 09:16*	*08/10/16 11:08*	*20*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-080416-SSH-005
Date Collected: 08/04/16 12:35
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-37
Matrix: Solid
Percent Solids: 81.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2400	U	2400	870	ug/Kg	☼	08/08/16 09:16	08/10/16 11:26	10
Aroclor-1221	2400	U	2400	1200	ug/Kg	☼	08/08/16 09:16	08/10/16 11:26	10
Aroclor-1232	2400	U	2400	1500	ug/Kg	☼	08/08/16 09:16	08/10/16 11:26	10
Aroclor-1242	2400	U	2400	800	ug/Kg	☼	08/08/16 09:16	08/10/16 11:26	10
Aroclor-1248	2400	U	2400	580	ug/Kg	☼	08/08/16 09:16	08/10/16 11:26	10
Aroclor-1254	**6900**		2400	1000	ug/Kg	☼	08/08/16 09:16	08/10/16 11:26	10
Aroclor-1260	2400	U	2400	660	ug/Kg	☼	08/08/16 09:16	08/10/16 11:26	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*67*		*14 - 128*	*08/08/16 09:16*	*08/10/16 11:26*	*10*
DCB Decachlorobiphenyl	*66*		*10 - 132*	*08/08/16 09:16*	*08/10/16 11:26*	*10*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-080416-SSH-006
Date Collected: 08/04/16 12:40
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-38
Matrix: Solid
Percent Solids: 96.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2000	U	2000	730	ug/Kg	☼	08/08/16 09:16	08/10/16 11:44	10
Aroclor-1221	2000	U	2000	980	ug/Kg	☼	08/08/16 09:16	08/10/16 11:44	10
Aroclor-1232	2000	U	2000	1200	ug/Kg	☼	08/08/16 09:16	08/10/16 11:44	10
Aroclor-1242	2000	U	2000	670	ug/Kg	☼	08/08/16 09:16	08/10/16 11:44	10
Aroclor-1248	2000	U	2000	490	ug/Kg	☼	08/08/16 09:16	08/10/16 11:44	10
Aroclor-1254	**5300**		2000	850	ug/Kg	☼	08/08/16 09:16	08/10/16 11:44	10
Aroclor-1260	2000	U	2000	550	ug/Kg	☼	08/08/16 09:16	08/10/16 11:44	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*66*		*14 - 128*	*08/08/16 09:16*	*08/10/16 11:44*	*10*
DCB Decachlorobiphenyl	*68*		*10 - 132*	*08/08/16 09:16*	*08/10/16 11:44*	*10*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-080416-SSH-007
Date Collected: 08/04/16 12:45
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-39
Matrix: Solid
Percent Solids: 76.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	250	U	250	92	ug/Kg	☼	08/08/16 09:16	08/10/16 12:02	1
Aroclor-1221	250	U	250	120	ug/Kg	☼	08/08/16 09:16	08/10/16 12:02	1
Aroclor-1232	250	U	250	150	ug/Kg	☼	08/08/16 09:16	08/10/16 12:02	1
Aroclor-1242	250	U	250	84	ug/Kg	☼	08/08/16 09:16	08/10/16 12:02	1
Aroclor-1248	250	U	250	61	ug/Kg	☼	08/08/16 09:16	08/10/16 12:02	1
Aroclor-1254	**1900**		250	110	ug/Kg	☼	08/08/16 09:16	08/10/16 12:02	1
Aroclor-1260	250	U	250	69	ug/Kg	☼	08/08/16 09:16	08/10/16 12:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*33*		*14 - 128*	*08/08/16 09:16*	*08/10/16 12:02*	*1*
DCB Decachlorobiphenyl	*65*		*10 - 132*	*08/08/16 09:16*	*08/10/16 12:02*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-080416-SSH-009
Date Collected: 08/04/16 12:55
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-41
Matrix: Solid
Percent Solids: 98.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2000	U	2000	730	ug/Kg	☼	08/08/16 09:16	08/10/16 12:19	10
Aroclor-1221	2000	U	2000	970	ug/Kg	☼	08/08/16 09:16	08/10/16 12:19	10
Aroclor-1232	2000	U	2000	1200	ug/Kg	☼	08/08/16 09:16	08/10/16 12:19	10
Aroclor-1242	2000	U	2000	670	ug/Kg	☼	08/08/16 09:16	08/10/16 12:19	10
Aroclor-1248	2000	U	2000	490	ug/Kg	☼	08/08/16 09:16	08/10/16 12:19	10
Aroclor-1254	**7700**		2000	850	ug/Kg	☼	08/08/16 09:16	08/10/16 12:19	10
Aroclor-1260	2000	U	2000	550	ug/Kg	☼	08/08/16 09:16	08/10/16 12:19	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*14 - 128*	*08/08/16 09:16*	*08/10/16 12:19*	*10*
DCB Decachlorobiphenyl	*82*		*10 - 132*	*08/08/16 09:16*	*08/10/16 12:19*	*10*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-1

General Chemistry

Client Sample ID: C-7878-080416-SSH-6065
Date Collected: 08/04/16 09:45
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-9
Matrix: Solid
Percent Solids: 99.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	99.0		0.1	0.1	%			08/09/16 09:29	1
Percent Moisture	1.0		0.1	0.1	%			08/09/16 09:29	1

General Chemistry

Client Sample ID: C-7878-080416-SSH-6066
Date Collected: 08/04/16 09:50
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-10
Matrix: Solid
Percent Solids: 98.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	98.6		0.1	0.1	%			08/09/16 09:29	1
Percent Moisture	1.4		0.1	0.1	%			08/09/16 09:29	1

General Chemistry

Client Sample ID: C-7878-080416-SSH-6067
Date Collected: 08/04/16 09:55
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-11
Matrix: Solid
Percent Solids: 98.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	98.6		0.1	0.1	%			08/09/16 09:29	1
Percent Moisture	1.4		0.1	0.1	%			08/09/16 09:29	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-1

General Chemistry

Client Sample ID: C-7878-080416-SSH-6068
Date Collected: 08/04/16 10:00
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-12
Matrix: Solid
Percent Solids: 99.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	99.0		0.1	0.1	%			08/09/16 09:29	1
Percent Moisture	1.0		0.1	0.1	%			08/09/16 09:29	1

General Chemistry

Client Sample ID: C-7878-080416-SSH-6073
Date Collected: 08/04/16 10:10
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-13
Matrix: Solid
Percent Solids: 96.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96.1		0.1	0.1	%			08/09/16 10:27	1
Percent Moisture	3.9		0.1	0.1	%			08/09/16 10:27	1

General Chemistry

Client Sample ID: C-7878-080416-SSH-6075
Date Collected: 08/04/16 10:15
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-14
Matrix: Solid
Percent Solids: 97.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97.3		0.1	0.1	%			08/09/16 10:27	1
Percent Moisture	2.7		0.1	0.1	%			08/09/16 10:27	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-1

General Chemistry

Client Sample ID: C-7878-080416-SSH-6074
Date Collected: 08/04/16 10:20
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-15
Matrix: Solid
Percent Solids: 96.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96.6		0.1	0.1	%			08/09/16 10:27	1
Percent Moisture	3.4		0.1	0.1	%			08/09/16 10:27	1

General Chemistry

Client Sample ID: C-7878-080416-SSH-6076
Date Collected: 08/04/16 10:25
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-16
Matrix: Solid
Percent Solids: 97.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97.4		0.1	0.1	%			08/09/16 10:27	1
Percent Moisture	2.6		0.1	0.1	%			08/09/16 10:27	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-1

General Chemistry

Client Sample ID: C-7878-080416-SSH-6079
Date Collected: 08/04/16 10:30
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-17
Matrix: Solid
Percent Solids: 83.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	83.4		0.1	0.1	%			08/09/16 10:27	1
Percent Moisture	16.6		0.1	0.1	%			08/09/16 10:27	1

General Chemistry

Client Sample ID: C-7878-080416-SSH-6080
Date Collected: 08/04/16 10:35
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-18
Matrix: Solid
Percent Solids: 78.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	78.4		0.1	0.1	%			08/09/16 10:27	1
Percent Moisture	21.6		0.1	0.1	%			08/09/16 10:27	1

General Chemistry

Client Sample ID: C-7878-080416-SSH-6077
Date Collected: 08/04/16 10:45
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-19
Matrix: Solid
Percent Solids: 98.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	98.1		0.1	0.1	%			08/09/16 10:27	1
Percent Moisture	1.9		0.1	0.1	%			08/09/16 10:27	1

General Chemistry

Client Sample ID: C-7878-080416-SSH-6078
Date Collected: 08/04/16 10:50
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-20
Matrix: Solid
Percent Solids: 97.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97.6		0.1	0.1	%			08/09/16 10:27	1
Percent Moisture	2.4		0.1	0.1	%			08/09/16 10:27	1

General Chemistry

Client Sample ID: C-7878-080416-SSH-6057
Date Collected: 08/04/16 10:55
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-21
Matrix: Solid
Percent Solids: 96.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96.8		0.1	0.1	%			08/09/16 10:27	1
Percent Moisture	3.2		0.1	0.1	%			08/09/16 10:27	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-1

General Chemistry

Client Sample ID: C-7878-080416-SSH-6058
Date Collected: 08/04/16 11:00
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-22
Matrix: Solid
Percent Solids: 98.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**98.0**		0.1	0.1	%			08/09/16 10:27	1
Percent Moisture	**2.0**		0.1	0.1	%			08/09/16 10:27	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-1

General Chemistry

Client Sample ID: C-7878-080416-SSH-6063
Date Collected: 08/04/16 11:10
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-23
Matrix: Solid
Percent Solids: 97.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97.9		0.1	0.1	%			08/09/16 10:27	1
Percent Moisture	2.1		0.1	0.1	%			08/09/16 10:27	1

General Chemistry

Client Sample ID: C-7878-080416-SSH-6064
Date Collected: 08/04/16 11:15
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-24
Matrix: Solid
Percent Solids: 97.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97.7		0.1	0.1	%			08/09/16 10:27	1
Percent Moisture	2.3		0.1	0.1	%			08/09/16 10:27	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-1

General Chemistry

Client Sample ID: C-7878-080416-SSH-6061
Date Collected: 08/04/16 11:20
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-25
Matrix: Solid
Percent Solids: 98.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**98.0**		0.1	0.1	%			08/09/16 11:17	1
Percent Moisture	**2.0**		0.1	0.1	%			08/09/16 11:17	1

General Chemistry

Client Sample ID: C-7878-080416-SSH-6062
Date Collected: 08/04/16 11:25
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-26
Matrix: Solid
Percent Solids: 98.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	98.6		0.1	0.1	%			08/09/16 10:27	1
Percent Moisture	1.4		0.1	0.1	%			08/09/16 10:27	1

General Chemistry

Client Sample ID: C-7878-080416-SSH-6059
Date Collected: 08/04/16 11:30
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-27
Matrix: Solid
Percent Solids: 94.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	94.3		0.1	0.1	%			08/09/16 10:27	1
Percent Moisture	5.7		0.1	0.1	%			08/09/16 10:27	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-1

General Chemistry

Client Sample ID: C-7878-080416-SSH-6070
Date Collected: 08/04/16 11:35
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-28
Matrix: Solid
Percent Solids: 99.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	99.1		0.1	0.1	%			08/09/16 10:27	1
Percent Moisture	0.9		0.1	0.1	%			08/09/16 10:27	1

General Chemistry

Client Sample ID: C-7878-080416-SSH-6069
Date Collected: 08/04/16 11:40
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-29
Matrix: Solid
Percent Solids: 86.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	86.8		0.1	0.1	%			08/09/16 10:27	1
Percent Moisture	13.2		0.1	0.1	%			08/09/16 10:27	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-1

General Chemistry

Client Sample ID: C-7878-080416-SSH-6072
Date Collected: 08/04/16 11:45
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-30
Matrix: Solid
Percent Solids: 98.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	98.1		0.1	0.1	%			08/09/16 10:27	1
Percent Moisture	1.9		0.1	0.1	%			08/09/16 10:27	1

General Chemistry

Client Sample ID: C-7878-080416-SSH-6071
Date Collected: 08/04/16 11:50
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-31
Matrix: Solid
Percent Solids: 80.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	80.9		0.1	0.1	%			08/09/16 10:27	1
Percent Moisture	19.1		0.1	0.1	%			08/09/16 10:27	1

General Chemistry

Client Sample ID: C-7878-080416-SSH-6060
Date Collected: 08/04/16 11:55
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-32
Matrix: Solid
Percent Solids: 97.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97.1		0.1	0.1	%			08/09/16 10:27	1
Percent Moisture	2.9		0.1	0.1	%			08/09/16 10:27	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-1

General Chemistry

Client Sample ID: C-7878-080416-SSH-001
Date Collected: 08/04/16 12:15
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-33
Matrix: Solid
Percent Solids: 87.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	87.6		0.1	0.1	%			08/09/16 10:27	1
Percent Moisture	12.4		0.1	0.1	%			08/09/16 10:27	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-1

General Chemistry

Client Sample ID: C-7878-080416-SSH-002
Date Collected: 08/04/16 12:20
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-34
Matrix: Solid
Percent Solids: 97.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97.5		0.1	0.1	%			08/09/16 10:27	1
Percent Moisture	2.5		0.1	0.1	%			08/09/16 10:27	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-1

General Chemistry

Client Sample ID: C-7878-080416-SSH-003
Date Collected: 08/04/16 12:25
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-35
Matrix: Solid
Percent Solids: 98.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	98.1		0.1	0.1	%			08/09/16 10:27	1
Percent Moisture	1.9		0.1	0.1	%			08/09/16 10:27	1

General Chemistry

Client Sample ID: C-7878-080416-SSH-004
Date Collected: 08/04/16 12:30
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-36
Matrix: Solid
Percent Solids: 97.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97.7		0.1	0.1	%			08/09/16 10:43	1
Percent Moisture	2.3		0.1	0.1	%			08/09/16 10:43	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-1

General Chemistry

Client Sample ID: C-7878-080416-SSH-005
Date Collected: 08/04/16 12:35
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-37
Matrix: Solid
Percent Solids: 81.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	81.7		0.1	0.1	%			08/09/16 10:43	1
Percent Moisture	18.3		0.1	0.1	%			08/09/16 10:43	1

General Chemistry

Client Sample ID: C-7878-080416-SSH-006
Date Collected: 08/04/16 12:40
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-38
Matrix: Solid
Percent Solids: 96.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96.7		0.1	0.1	%			08/09/16 10:43	1
Percent Moisture	3.3		0.1	0.1	%			08/09/16 10:43	1

General Chemistry

Client Sample ID: C-7878-080416-SSH-007
Date Collected: 08/04/16 12:45
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-39
Matrix: Solid
Percent Solids: 76.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	76.4		0.1	0.1	%			08/09/16 10:43	1
Percent Moisture	23.6		0.1	0.1	%			08/09/16 10:43	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-1

General Chemistry

Client Sample ID: C-7878-080416-SSH-009
Date Collected: 08/04/16 12:55
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-41
Matrix: Solid
Percent Solids: 98.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	98.6		0.1	0.1	%			08/09/16 10:43	1
Percent Moisture	1.4		0.1	0.1	%			08/09/16 10:43	1

GC Semi VOA

Prep Batch: 241557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-68013-9	C-7878-080416-SSH-6065	Total/NA	Solid	3540C	
240-68013-10	C-7878-080416-SSH-6066	Total/NA	Solid	3540C	
240-68013-11	C-7878-080416-SSH-6067	Total/NA	Solid	3540C	
MB 240-241557/20-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-241557/21-A	Lab Control Sample	Total/NA	Solid	3540C	

Prep Batch: 241560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-68013-13	C-7878-080416-SSH-6073	Total/NA	Solid	3540C	
240-68013-14	C-7878-080416-SSH-6075	Total/NA	Solid	3540C	
240-68013-15	C-7878-080416-SSH-6074	Total/NA	Solid	3540C	
240-68013-16	C-7878-080416-SSH-6076	Total/NA	Solid	3540C	
240-68013-17	C-7878-080416-SSH-6079	Total/NA	Solid	3540C	
240-68013-18	C-7878-080416-SSH-6080	Total/NA	Solid	3540C	
240-68013-19	C-7878-080416-SSH-6077	Total/NA	Solid	3540C	
240-68013-20	C-7878-080416-SSH-6078	Total/NA	Solid	3540C	
240-68013-21	C-7878-080416-SSH-6057	Total/NA	Solid	3540C	
240-68013-22	C-7878-080416-SSH-6058	Total/NA	Solid	3540C	
240-68013-23	C-7878-080416-SSH-6063	Total/NA	Solid	3540C	
240-68013-24	C-7878-080416-SSH-6064	Total/NA	Solid	3540C	
240-68013-25	C-7878-080416-SSH-6061	Total/NA	Solid	3540C	
240-68013-26	C-7878-080416-SSH-6062	Total/NA	Solid	3540C	
240-68013-27	C-7878-080416-SSH-6059	Total/NA	Solid	3540C	
240-68013-28	C-7878-080416-SSH-6070	Total/NA	Solid	3540C	
240-68013-29	C-7878-080416-SSH-6069	Total/NA	Solid	3540C	
240-68013-30	C-7878-080416-SSH-6072	Total/NA	Solid	3540C	
240-68013-31	C-7878-080416-SSH-6071	Total/NA	Solid	3540C	
240-68013-32	C-7878-080416-SSH-6060	Total/NA	Solid	3540C	
MB 240-241560/23-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-241560/24-A	Lab Control Sample	Total/NA	Solid	3540C	
240-68013-32 MS	C-7878-080416-SSH-6060	Total/NA	Solid	3540C	
240-68013-32 MSD	C-7878-080416-SSH-6060	Total/NA	Solid	3540C	

Prep Batch: 241573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-68013-12	C-7878-080416-SSH-6068	Total/NA	Solid	3540C	
240-68013-33	C-7878-080416-SSH-001	Total/NA	Solid	3540C	
240-68013-34	C-7878-080416-SSH-002	Total/NA	Solid	3540C	
240-68013-35	C-7878-080416-SSH-003	Total/NA	Solid	3540C	
240-68013-36	C-7878-080416-SSH-004	Total/NA	Solid	3540C	
240-68013-37	C-7878-080416-SSH-005	Total/NA	Solid	3540C	
240-68013-38	C-7878-080416-SSH-006	Total/NA	Solid	3540C	
240-68013-39	C-7878-080416-SSH-007	Total/NA	Solid	3540C	
240-68013-41	C-7878-080416-SSH-009	Total/NA	Solid	3540C	
MB 240-241573/12-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-241573/13-A	Lab Control Sample	Total/NA	Solid	3540C	
240-68013-12 MS	C-7878-080416-SSH-6068	Total/NA	Solid	3540C	
240-68013-12 MSD	C-7878-080416-SSH-6068	Total/NA	Solid	3540C	

GC Semi VOA (Continued)

Analysis Batch: 241881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-68013-12	C-7878-080416-SSH-6068	Total/NA	Solid	8082	241573
240-68013-33	C-7878-080416-SSH-001	Total/NA	Solid	8082	241573
240-68013-34	C-7878-080416-SSH-002	Total/NA	Solid	8082	241573
240-68013-35	C-7878-080416-SSH-003	Total/NA	Solid	8082	241573
240-68013-36	C-7878-080416-SSH-004	Total/NA	Solid	8082	241573
240-68013-37	C-7878-080416-SSH-005	Total/NA	Solid	8082	241573
240-68013-38	C-7878-080416-SSH-006	Total/NA	Solid	8082	241573
240-68013-39	C-7878-080416-SSH-007	Total/NA	Solid	8082	241573
240-68013-41	C-7878-080416-SSH-009	Total/NA	Solid	8082	241573
MB 240-241573/12-A	Method Blank	Total/NA	Solid	8082	241573
LCS 240-241573/13-A	Lab Control Sample	Total/NA	Solid	8082	241573
240-68013-12 MS	C-7878-080416-SSH-6068	Total/NA	Solid	8082	241573
240-68013-12 MSD	C-7878-080416-SSH-6068	Total/NA	Solid	8082	241573

Analysis Batch: 241911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-68013-9	C-7878-080416-SSH-6065	Total/NA	Solid	8082	241557
240-68013-10	C-7878-080416-SSH-6066	Total/NA	Solid	8082	241557
240-68013-11	C-7878-080416-SSH-6067	Total/NA	Solid	8082	241557
MB 240-241557/20-A	Method Blank	Total/NA	Solid	8082	241557
LCS 240-241557/21-A	Lab Control Sample	Total/NA	Solid	8082	241557

Analysis Batch: 241995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-68013-14	C-7878-080416-SSH-6075	Total/NA	Solid	8082	241560
240-68013-15	C-7878-080416-SSH-6074	Total/NA	Solid	8082	241560
240-68013-16	C-7878-080416-SSH-6076	Total/NA	Solid	8082	241560
240-68013-17	C-7878-080416-SSH-6079	Total/NA	Solid	8082	241560
240-68013-18	C-7878-080416-SSH-6080	Total/NA	Solid	8082	241560
240-68013-19	C-7878-080416-SSH-6077	Total/NA	Solid	8082	241560
240-68013-20	C-7878-080416-SSH-6078	Total/NA	Solid	8082	241560
240-68013-21	C-7878-080416-SSH-6057	Total/NA	Solid	8082	241560
240-68013-22	C-7878-080416-SSH-6058	Total/NA	Solid	8082	241560
240-68013-23	C-7878-080416-SSH-6063	Total/NA	Solid	8082	241560
240-68013-24	C-7878-080416-SSH-6064	Total/NA	Solid	8082	241560
240-68013-25	C-7878-080416-SSH-6061	Total/NA	Solid	8082	241560
240-68013-26	C-7878-080416-SSH-6062	Total/NA	Solid	8082	241560
240-68013-27	C-7878-080416-SSH-6059	Total/NA	Solid	8082	241560
240-68013-28	C-7878-080416-SSH-6070	Total/NA	Solid	8082	241560
240-68013-29	C-7878-080416-SSH-6069	Total/NA	Solid	8082	241560
240-68013-30	C-7878-080416-SSH-6072	Total/NA	Solid	8082	241560
240-68013-31	C-7878-080416-SSH-6071	Total/NA	Solid	8082	241560
240-68013-32	C-7878-080416-SSH-6060	Total/NA	Solid	8082	241560
MB 240-241560/23-A	Method Blank	Total/NA	Solid	8082	241560
LCS 240-241560/24-A	Lab Control Sample	Total/NA	Solid	8082	241560
240-68013-32 MS	C-7878-080416-SSH-6060	Total/NA	Solid	8082	241560
240-68013-32 MSD	C-7878-080416-SSH-6060	Total/NA	Solid	8082	241560

Analysis Batch: 242052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-68013-13	C-7878-080416-SSH-6073	Total/NA	Solid	8082	241560

General Chemistry

Analysis Batch: 241751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-68013-9	C-7878-080416-SSH-6065	Total/NA	Solid	Moisture	
240-68013-10	C-7878-080416-SSH-6066	Total/NA	Solid	Moisture	
240-68013-11	C-7878-080416-SSH-6067	Total/NA	Solid	Moisture	
240-68013-12	C-7878-080416-SSH-6068	Total/NA	Solid	Moisture	
240-68013-13	C-7878-080416-SSH-6073	Total/NA	Solid	Moisture	
240-68013-14	C-7878-080416-SSH-6075	Total/NA	Solid	Moisture	
240-68013-15	C-7878-080416-SSH-6074	Total/NA	Solid	Moisture	
240-68013-16	C-7878-080416-SSH-6076	Total/NA	Solid	Moisture	
240-68013-17	C-7878-080416-SSH-6079	Total/NA	Solid	Moisture	
240-68013-18	C-7878-080416-SSH-6080	Total/NA	Solid	Moisture	
240-68013-19	C-7878-080416-SSH-6077	Total/NA	Solid	Moisture	
240-68013-20	C-7878-080416-SSH-6078	Total/NA	Solid	Moisture	
240-68013-21	C-7878-080416-SSH-6057	Total/NA	Solid	Moisture	
240-68013-22	C-7878-080416-SSH-6058	Total/NA	Solid	Moisture	
240-68013-23	C-7878-080416-SSH-6063	Total/NA	Solid	Moisture	
240-68013-24	C-7878-080416-SSH-6064	Total/NA	Solid	Moisture	
240-68013-25	C-7878-080416-SSH-6061	Total/NA	Solid	Moisture	
240-68013-26	C-7878-080416-SSH-6062	Total/NA	Solid	Moisture	
240-68013-27	C-7878-080416-SSH-6059	Total/NA	Solid	Moisture	
240-68013-28	C-7878-080416-SSH-6070	Total/NA	Solid	Moisture	
240-68013-29	C-7878-080416-SSH-6069	Total/NA	Solid	Moisture	
240-68013-30	C-7878-080416-SSH-6072	Total/NA	Solid	Moisture	
240-68013-31	C-7878-080416-SSH-6071	Total/NA	Solid	Moisture	
240-68013-32	C-7878-080416-SSH-6060	Total/NA	Solid	Moisture	
240-68013-33	C-7878-080416-SSH-001	Total/NA	Solid	Moisture	
240-68013-34	C-7878-080416-SSH-002	Total/NA	Solid	Moisture	
240-68013-35	C-7878-080416-SSH-003	Total/NA	Solid	Moisture	
240-68013-36	C-7878-080416-SSH-004	Total/NA	Solid	Moisture	
240-68013-37	C-7878-080416-SSH-005	Total/NA	Solid	Moisture	
240-68013-38	C-7878-080416-SSH-006	Total/NA	Solid	Moisture	
240-68013-39	C-7878-080416-SSH-007	Total/NA	Solid	Moisture	
240-68013-41	C-7878-080416-SSH-009	Total/NA	Solid	Moisture	
240-68013-13 DU	C-7878-080416-SSH-6073	Total/NA	Solid	Moisture	
240-68013-22 DU	C-7878-080416-SSH-6058	Total/NA	Solid	Moisture	
240-68013-25 DU	C-7878-080416-SSH-6061	Total/NA	Solid	Moisture	
240-68013-32 DU	C-7878-080416-SSH-6060	Total/NA	Solid	Moisture	
240-68013-41 DU	C-7878-080416-SSH-009	Total/NA	Solid	Moisture	

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-241557/20-A
Matrix: Solid
Analysis Batch: 241911

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 241557

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	200	U	200	72	ug/Kg		08/08/16 08:06	08/10/16 15:51	1
Aroclor-1221	200	U	200	96	ug/Kg		08/08/16 08:06	08/10/16 15:51	1
Aroclor-1232	200	U	200	120	ug/Kg		08/08/16 08:06	08/10/16 15:51	1
Aroclor-1242	200	U	200	66	ug/Kg		08/08/16 08:06	08/10/16 15:51	1
Aroclor-1248	200	U	200	48	ug/Kg		08/08/16 08:06	08/10/16 15:51	1
Aroclor-1254	200	U	200	84	ug/Kg		08/08/16 08:06	08/10/16 15:51	1
Aroclor-1260	200	U	200	54	ug/Kg		08/08/16 08:06	08/10/16 15:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*98*		*14 - 128*	*08/08/16 08:06*	*08/10/16 15:51*	*1*
DCB Decachlorobiphenyl	*77*		*10 - 132*	*08/08/16 08:06*	*08/10/16 15:51*	*1*

Lab Sample ID: LCS 240-241557/21-A
Matrix: Solid
Analysis Batch: 241911

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 241557

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	2000	1360		ug/Kg		68	47 - 120
Aroclor-1260	2000	1350		ug/Kg		67	46 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*75*		*14 - 128*
DCB Decachlorobiphenyl	*67*		*10 - 132*

Lab Sample ID: MB 240-241560/23-A
Matrix: Solid
Analysis Batch: 241995

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 241560

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	200	U	200	72	ug/Kg		08/08/16 08:26	08/11/16 02:12	1
Aroclor-1221	200	U	200	96	ug/Kg		08/08/16 08:26	08/11/16 02:12	1
Aroclor-1232	200	U	200	120	ug/Kg		08/08/16 08:26	08/11/16 02:12	1
Aroclor-1242	200	U	200	66	ug/Kg		08/08/16 08:26	08/11/16 02:12	1
Aroclor-1248	200	U	200	48	ug/Kg		08/08/16 08:26	08/11/16 02:12	1
Aroclor-1254	200	U	200	84	ug/Kg		08/08/16 08:26	08/11/16 02:12	1
Aroclor-1260	200	U	200	54	ug/Kg		08/08/16 08:26	08/11/16 02:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*90*		*14 - 128*	*08/08/16 08:26*	*08/11/16 02:12*	*1*
DCB Decachlorobiphenyl	*76*		*10 - 132*	*08/08/16 08:26*	*08/11/16 02:12*	*1*

Lab Sample ID: LCS 240-241560/24-A
Matrix: Solid
Analysis Batch: 241995

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 241560

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	2000	1250		ug/Kg		62	47 - 120

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 240-241560/24-A
Matrix: Solid
Analysis Batch: 241995

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 241560

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor-1260			2000	1370		ug/Kg		68	46 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*71*		*14 - 128*
DCB Decachlorobiphenyl	*64*		*10 - 132*

Lab Sample ID: 240-68013-32 MS
Matrix: Solid
Analysis Batch: 241995

Client Sample ID: C-7878-080416-SSH-6060
Prep Type: Total/NA
Prep Batch: 241560

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor-1016	2000	U F1 F2	2040	1930	J	ug/Kg	☼	95	31 - 120		
Aroclor-1260	2000	U F1 F2	2040	8870	F1	ug/Kg	☼	436	21 - 122		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*37*		*14 - 128*
DCB Decachlorobiphenyl	*88*		*10 - 132*

Lab Sample ID: 240-68013-32 MSD
Matrix: Solid
Analysis Batch: 241995

Client Sample ID: C-7878-080416-SSH-6060
Prep Type: Total/NA
Prep Batch: 241560

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor-1016	2000	U F1 F2	2040	2140		ug/Kg	☼	105	31 - 120	11	30
Aroclor-1260	2000	U F1 F2	2040	9240	F1	ug/Kg	☼	453	21 - 122	4	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*86*		*14 - 128*
DCB Decachlorobiphenyl	*114*		*10 - 132*

Lab Sample ID: MB 240-241573/12-A
Matrix: Solid
Analysis Batch: 241881

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 241573

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	200	U	200	72	ug/Kg		08/08/16 09:16	08/10/16 07:53	1
Aroclor-1221	200	U	200	96	ug/Kg		08/08/16 09:16	08/10/16 07:53	1
Aroclor-1232	200	U	200	120	ug/Kg		08/08/16 09:16	08/10/16 07:53	1
Aroclor-1242	200	U	200	66	ug/Kg		08/08/16 09:16	08/10/16 07:53	1
Aroclor-1248	200	U	200	48	ug/Kg		08/08/16 09:16	08/10/16 07:53	1
Aroclor-1254	200	U	200	84	ug/Kg		08/08/16 09:16	08/10/16 07:53	1
Aroclor-1260	200	U	200	54	ug/Kg		08/08/16 09:16	08/10/16 07:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*110*		*14 - 128*	*08/08/16 09:16*	*08/10/16 07:53*	*1*
DCB Decachlorobiphenyl	*71*		*10 - 132*	*08/08/16 09:16*	*08/10/16 07:53*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 240-241573/13-A
Matrix: Solid
Analysis Batch: 241881

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 241573

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	2000	1600		ug/Kg		80	47 - 120
Aroclor-1260	2000	1660		ug/Kg		83	46 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*98*		*14 - 128*
DCB Decachlorobiphenyl	*79*		*10 - 132*

Lab Sample ID: 240-68013-12 MS
Matrix: Solid
Analysis Batch: 241881

Client Sample ID: C-7878-080416-SSH-6068
Prep Type: Total/NA
Prep Batch: 241573

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	2000	U	1960	1580	J	ug/Kg	☼	81	31 - 120
Aroclor-1260	2000	U F1	1960	4480	F1	ug/Kg	☼	229	21 - 122

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*78*		*14 - 128*
DCB Decachlorobiphenyl	*85*		*10 - 132*

Lab Sample ID: 240-68013-12 MSD
Matrix: Solid
Analysis Batch: 241881

Client Sample ID: C-7878-080416-SSH-6068
Prep Type: Total/NA
Prep Batch: 241573

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor-1016	2000	U	2000	1230	J	ug/Kg	☼	61	31 - 120	25	30
Aroclor-1260	2000	U F1	2000	3830	F1	ug/Kg	☼	192	21 - 122	16	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*70*		*14 - 128*
DCB Decachlorobiphenyl	*71*		*10 - 132*

Method: Moisture - Percent Moisture

Lab Sample ID: 240-68013-13 DU
Matrix: Solid
Analysis Batch: 241751

Client Sample ID: C-7878-080416-SSH-6073
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	96.1		96.8		%		0.7	20
Percent Moisture	3.9		3.2		%		19	20

Lab Sample ID: 240-68013-22 DU
Matrix: Solid
Analysis Batch: 241751

Client Sample ID: C-7878-080416-SSH-6058
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	98.0		97.7		%		0.3	20

Method: Moisture - Percent Moisture (Continued)

Lab Sample ID: 240-68013-22 DU
Matrix: Solid
Analysis Batch: 241751

Client Sample ID: C-7878-080416-SSH-6058
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	2.0			2.3		%				13	20

Lab Sample ID: 240-68013-25 DU
Matrix: Solid
Analysis Batch: 241751

Client Sample ID: C-7878-080416-SSH-6061
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Solids	98.0			98.4		%				0.5	20
Percent Moisture	2.0			1.6	F3	%				24	20

Lab Sample ID: 240-68013-32 DU
Matrix: Solid
Analysis Batch: 241751

Client Sample ID: C-7878-080416-SSH-6060
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Solids	97.1			97.5		%				0.4	20
Percent Moisture	2.9			2.5		%				14	20

Lab Sample ID: 240-68013-41 DU
Matrix: Solid
Analysis Batch: 241751

Client Sample ID: C-7878-080416-SSH-009
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Solids	98.6			98.6		%				0	20
Percent Moisture	1.4			1.4		%				3	20

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		TCX2	DCB2										
Lab Sample ID	Client Sample ID	(14-128)	(10-132)										
240-68013-9	C-7878-080416-SSH-6065	93	85										
240-68013-10	C-7878-080416-SSH-6066	86	73										
240-68013-11	C-7878-080416-SSH-6067	90	78										
240-68013-12	C-7878-080416-SSH-6068	75	92										
240-68013-12 MS	C-7878-080416-SSH-6068	78	85										
240-68013-12 MSD	C-7878-080416-SSH-6068	70	71										
240-68013-13	C-7878-080416-SSH-6073	89	102										
240-68013-14	C-7878-080416-SSH-6075	71	78										
240-68013-15	C-7878-080416-SSH-6074	79	96										
240-68013-16	C-7878-080416-SSH-6076	77	96										
240-68013-17	C-7878-080416-SSH-6079	86	100										
240-68013-18	C-7878-080416-SSH-6080	66	75										
240-68013-19	C-7878-080416-SSH-6077	81	111										
240-68013-20	C-7878-080416-SSH-6078	79	90										
240-68013-21	C-7878-080416-SSH-6057	93	101										
240-68013-22	C-7878-080416-SSH-6058	85	103										
240-68013-23	C-7878-080416-SSH-6063	90	93										
240-68013-24	C-7878-080416-SSH-6064	77	89										
240-68013-25	C-7878-080416-SSH-6061	79	83										
240-68013-26	C-7878-080416-SSH-6062	93	187 X										
240-68013-27	C-7878-080416-SSH-6059	39	90										
240-68013-28	C-7878-080416-SSH-6070	74	90										
240-68013-29	C-7878-080416-SSH-6069	68	85										
240-68013-30	C-7878-080416-SSH-6072	76	93										
240-68013-31	C-7878-080416-SSH-6071	87	107										
240-68013-32	C-7878-080416-SSH-6060	71	87										
240-68013-32 MS	C-7878-080416-SSH-6060	37	88										
240-68013-32 MSD	C-7878-080416-SSH-6060	86	114										
240-68013-33	C-7878-080416-SSH-001	67	71										
240-68013-34	C-7878-080416-SSH-002	58	60										
240-68013-35	C-7878-080416-SSH-003	71	71										
240-68013-36	C-7878-080416-SSH-004	67	92										
240-68013-37	C-7878-080416-SSH-005	67	66										
240-68013-38	C-7878-080416-SSH-006	66	68										
240-68013-39	C-7878-080416-SSH-007	33	65										
240-68013-41	C-7878-080416-SSH-009	74	82										
LCS 240-241557/21-A	Lab Control Sample	75	67										
LCS 240-241560/24-A	Lab Control Sample	71	64										
LCS 240-241573/13-A	Lab Control Sample	98	79										
MB 240-241557/20-A	Method Blank	98	77										
MB 240-241560/23-A	Method Blank	90	76										
MB 240-241573/12-A	Method Blank	110	71										

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Client Sample ID: C-7878-080416-SSH-6065
Lab Sample ID: 240-68013-9
Date Collected: 08/04/16 09:45
Matrix: Solid
Date Received: 08/05/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	241751	08/09/16 09:29	DTN	TAL CAN

Client Sample ID: C-7878-080416-SSH-6065
Lab Sample ID: 240-68013-9
Date Collected: 08/04/16 09:45
Matrix: Solid
Date Received: 08/05/16 09:20
Percent Solids: 99.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			241557	08/08/16 08:06	SDE	TAL CAN
Total/NA	Analysis	8082		5	241911	08/10/16 10:59	LSH	TAL CAN

Client Sample ID: C-7878-080416-SSH-6066
Lab Sample ID: 240-68013-10
Date Collected: 08/04/16 09:50
Matrix: Solid
Date Received: 08/05/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	241751	08/09/16 09:29	DTN	TAL CAN

Client Sample ID: C-7878-080416-SSH-6066
Lab Sample ID: 240-68013-10
Date Collected: 08/04/16 09:50
Matrix: Solid
Date Received: 08/05/16 09:20
Percent Solids: 98.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			241557	08/08/16 08:06	SDE	TAL CAN
Total/NA	Analysis	8082		5	241911	08/10/16 11:18	LSH	TAL CAN

Client Sample ID: C-7878-080416-SSH-6067
Lab Sample ID: 240-68013-11
Date Collected: 08/04/16 09:55
Matrix: Solid
Date Received: 08/05/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	241751	08/09/16 09:29	DTN	TAL CAN

Client Sample ID: C-7878-080416-SSH-6067
Lab Sample ID: 240-68013-11
Date Collected: 08/04/16 09:55
Matrix: Solid
Date Received: 08/05/16 09:20
Percent Solids: 98.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			241557	08/08/16 08:06	SDE	TAL CAN
Total/NA	Analysis	8082		5	241911	08/10/16 11:36	LSH	TAL CAN

Client Sample ID: C-7878-080416-SSH-6068
Lab Sample ID: 240-68013-12
Date Collected: 08/04/16 10:00
Matrix: Solid
Date Received: 08/05/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	241751	08/09/16 09:29	DTN	TAL CAN

Client Sample ID: C-7878-080416-SSH-6068
Lab Sample ID: 240-68013-12
Date Collected: 08/04/16 10:00
Matrix: Solid
Date Received: 08/05/16 09:20
Percent Solids: 99.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			241573	08/08/16 09:16	SDE	TAL CAN
Total/NA	Analysis	8082		10	241881	08/10/16 09:22	KMG	TAL CAN

Client Sample ID: C-7878-080416-SSH-6073
Lab Sample ID: 240-68013-13
Date Collected: 08/04/16 10:10
Matrix: Solid
Date Received: 08/05/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	241751	08/09/16 10:27	DTN	TAL CAN

Client Sample ID: C-7878-080416-SSH-6073
Lab Sample ID: 240-68013-13
Date Collected: 08/04/16 10:10
Matrix: Solid
Date Received: 08/05/16 09:20
Percent Solids: 96.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			241560	08/08/16 08:26	SDE	TAL CAN
Total/NA	Analysis	8082		2	242052	08/11/16 11:48	LSH	TAL CAN

Client Sample ID: C-7878-080416-SSH-6075
Lab Sample ID: 240-68013-14
Date Collected: 08/04/16 10:15
Matrix: Solid
Date Received: 08/05/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	241751	08/09/16 10:27	DTN	TAL CAN

Client Sample ID: C-7878-080416-SSH-6075
Lab Sample ID: 240-68013-14
Date Collected: 08/04/16 10:15
Matrix: Solid
Date Received: 08/05/16 09:20
Percent Solids: 97.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			241560	08/08/16 08:26	SDE	TAL CAN
Total/NA	Analysis	8082		5	241995	08/10/16 22:36	LSH	TAL CAN

Client Sample ID: C-7878-080416-SSH-6074
Lab Sample ID: 240-68013-15
Date Collected: 08/04/16 10:20
Matrix: Solid
Date Received: 08/05/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	241751	08/09/16 10:27	DTN	TAL CAN

Client Sample ID: C-7878-080416-SSH-6074
Lab Sample ID: 240-68013-15
Date Collected: 08/04/16 10:20
Matrix: Solid
Date Received: 08/05/16 09:20
Percent Solids: 96.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			241560	08/08/16 08:26	SDE	TAL CAN
Total/NA	Analysis	8082		5	241995	08/10/16 22:54	LSH	TAL CAN

Client Sample ID: C-7878-080416-SSH-6076
Lab Sample ID: 240-68013-16
Date Collected: 08/04/16 10:25
Matrix: Solid
Date Received: 08/05/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	241751	08/09/16 10:27	DTN	TAL CAN

Client Sample ID: C-7878-080416-SSH-6076
Lab Sample ID: 240-68013-16
Date Collected: 08/04/16 10:25
Matrix: Solid
Date Received: 08/05/16 09:20
Percent Solids: 97.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			241560	08/08/16 08:26	SDE	TAL CAN
Total/NA	Analysis	8082		5	241995	08/10/16 23:12	LSH	TAL CAN

Client Sample ID: C-7878-080416-SSH-6079
Lab Sample ID: 240-68013-17
Date Collected: 08/04/16 10:30
Matrix: Solid
Date Received: 08/05/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	241751	08/09/16 10:27	DTN	TAL CAN

Client Sample ID: C-7878-080416-SSH-6079
Lab Sample ID: 240-68013-17
Date Collected: 08/04/16 10:30
Matrix: Solid
Date Received: 08/05/16 09:20
Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			241560	08/08/16 08:26	SDE	TAL CAN
Total/NA	Analysis	8082		5	241995	08/10/16 23:30	LSH	TAL CAN

Client Sample ID: C-7878-080416-SSH-6080
Lab Sample ID: 240-68013-18
Date Collected: 08/04/16 10:35
Matrix: Solid
Date Received: 08/05/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	241751	08/09/16 10:27	DTN	TAL CAN

Client Sample ID: C-7878-080416-SSH-6080
Lab Sample ID: 240-68013-18
Date Collected: 08/04/16 10:35
Matrix: Solid
Date Received: 08/05/16 09:20
Percent Solids: 78.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			241560	08/08/16 08:26	SDE	TAL CAN
Total/NA	Analysis	8082		5	241995	08/10/16 23:49	LSH	TAL CAN

Client Sample ID: C-7878-080416-SSH-6077
Lab Sample ID: 240-68013-19
Date Collected: 08/04/16 10:45
Matrix: Solid
Date Received: 08/05/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	241751	08/09/16 10:27	DTN	TAL CAN

Client Sample ID: C-7878-080416-SSH-6077
Lab Sample ID: 240-68013-19
Date Collected: 08/04/16 10:45
Matrix: Solid
Date Received: 08/05/16 09:20
Percent Solids: 98.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			241560	08/08/16 08:26	SDE	TAL CAN
Total/NA	Analysis	8082		10	241995	08/11/16 00:07	LSH	TAL CAN

Client Sample ID: C-7878-080416-SSH-6078
Lab Sample ID: 240-68013-20
Date Collected: 08/04/16 10:50
Matrix: Solid
Date Received: 08/05/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	241751	08/09/16 10:27	DTN	TAL CAN

Client Sample ID: C-7878-080416-SSH-6078
Lab Sample ID: 240-68013-20
Date Collected: 08/04/16 10:50
Matrix: Solid
Date Received: 08/05/16 09:20
Percent Solids: 97.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			241560	08/08/16 08:26	SDE	TAL CAN
Total/NA	Analysis	8082		10	241995	08/11/16 00:25	LSH	TAL CAN

Client Sample ID: C-7878-080416-SSH-6057 — **Lab Sample ID: 240-68013-21**
Date Collected: 08/04/16 10:55 — **Matrix: Solid**
Date Received: 08/05/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	241751	08/09/16 10:27	DTN	TAL CAN

Client Sample ID: C-7878-080416-SSH-6057 — **Lab Sample ID: 240-68013-21**
Date Collected: 08/04/16 10:55 — **Matrix: Solid**
Date Received: 08/05/16 09:20 — **Percent Solids: 96.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			241560	08/08/16 08:26	SDE	TAL CAN
Total/NA	Analysis	8082		10	241995	08/11/16 00:43	LSH	TAL CAN

Client Sample ID: C-7878-080416-SSH-6058 — **Lab Sample ID: 240-68013-22**
Date Collected: 08/04/16 11:00 — **Matrix: Solid**
Date Received: 08/05/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	241751	08/09/16 10:27	DTN	TAL CAN

Client Sample ID: C-7878-080416-SSH-6058 — **Lab Sample ID: 240-68013-22**
Date Collected: 08/04/16 11:00 — **Matrix: Solid**
Date Received: 08/05/16 09:20 — **Percent Solids: 98.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			241560	08/08/16 08:26	SDE	TAL CAN
Total/NA	Analysis	8082		10	241995	08/11/16 01:01	LSH	TAL CAN

Client Sample ID: C-7878-080416-SSH-6063 — **Lab Sample ID: 240-68013-23**
Date Collected: 08/04/16 11:10 — **Matrix: Solid**
Date Received: 08/05/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	241751	08/09/16 10:27	DTN	TAL CAN

Client Sample ID: C-7878-080416-SSH-6063 — **Lab Sample ID: 240-68013-23**
Date Collected: 08/04/16 11:10 — **Matrix: Solid**
Date Received: 08/05/16 09:20 — **Percent Solids: 97.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			241560	08/08/16 08:26	SDE	TAL CAN
Total/NA	Analysis	8082		5	241995	08/11/16 01:19	LSH	TAL CAN

Client Sample ID: C-7878-080416-SSH-6064
Lab Sample ID: 240-68013-24
Date Collected: 08/04/16 11:15
Matrix: Solid
Date Received: 08/05/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	241751	08/09/16 10:27	DTN	TAL CAN

Client Sample ID: C-7878-080416-SSH-6064
Lab Sample ID: 240-68013-24
Date Collected: 08/04/16 11:15
Matrix: Solid
Date Received: 08/05/16 09:20
Percent Solids: 97.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			241560	08/08/16 08:26	SDE	TAL CAN
Total/NA	Analysis	8082		10	241995	08/11/16 01:37	LSH	TAL CAN

Client Sample ID: C-7878-080416-SSH-6061
Lab Sample ID: 240-68013-25
Date Collected: 08/04/16 11:20
Matrix: Solid
Date Received: 08/05/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	241751	08/09/16 11:17	DTN	TAL CAN

Client Sample ID: C-7878-080416-SSH-6061
Lab Sample ID: 240-68013-25
Date Collected: 08/04/16 11:20
Matrix: Solid
Date Received: 08/05/16 09:20
Percent Solids: 98.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			241560	08/08/16 08:26	SDE	TAL CAN
Total/NA	Analysis	8082		20	241995	08/11/16 01:55	LSH	TAL CAN

Client Sample ID: C-7878-080416-SSH-6062
Lab Sample ID: 240-68013-26
Date Collected: 08/04/16 11:25
Matrix: Solid
Date Received: 08/05/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	241751	08/09/16 10:27	DTN	TAL CAN

Client Sample ID: C-7878-080416-SSH-6062
Lab Sample ID: 240-68013-26
Date Collected: 08/04/16 11:25
Matrix: Solid
Date Received: 08/05/16 09:20
Percent Solids: 98.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			241560	08/08/16 08:26	SDE	TAL CAN
Total/NA	Analysis	8082		100	241995	08/11/16 03:05	LSH	TAL CAN

Client Sample ID: C-7878-080416-SSH-6059 — **Lab Sample ID: 240-68013-27**
Date Collected: 08/04/16 11:30 — **Matrix: Solid**
Date Received: 08/05/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	241751	08/09/16 10:27	DTN	TAL CAN

Client Sample ID: C-7878-080416-SSH-6059 — **Lab Sample ID: 240-68013-27**
Date Collected: 08/04/16 11:30 — **Matrix: Solid**
Date Received: 08/05/16 09:20 — **Percent Solids: 94.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			241560	08/08/16 08:26	SDE	TAL CAN
Total/NA	Analysis	8082		10	241995	08/11/16 03:23	LSH	TAL CAN

Client Sample ID: C-7878-080416-SSH-6070 — **Lab Sample ID: 240-68013-28**
Date Collected: 08/04/16 11:35 — **Matrix: Solid**
Date Received: 08/05/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	241751	08/09/16 10:27	DTN	TAL CAN

Client Sample ID: C-7878-080416-SSH-6070 — **Lab Sample ID: 240-68013-28**
Date Collected: 08/04/16 11:35 — **Matrix: Solid**
Date Received: 08/05/16 09:20 — **Percent Solids: 99.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			241560	08/08/16 08:26	SDE	TAL CAN
Total/NA	Analysis	8082		10	241995	08/11/16 03:40	LSH	TAL CAN

Client Sample ID: C-7878-080416-SSH-6069 — **Lab Sample ID: 240-68013-29**
Date Collected: 08/04/16 11:40 — **Matrix: Solid**
Date Received: 08/05/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	241751	08/09/16 10:27	DTN	TAL CAN

Client Sample ID: C-7878-080416-SSH-6069 — **Lab Sample ID: 240-68013-29**
Date Collected: 08/04/16 11:40 — **Matrix: Solid**
Date Received: 08/05/16 09:20 — **Percent Solids: 86.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			241560	08/08/16 08:26	SDE	TAL CAN
Total/NA	Analysis	8082		5	241995	08/11/16 03:57	LSH	TAL CAN

Client Sample ID: C-7878-080416-SSH-6072 — **Lab Sample ID: 240-68013-30**
Date Collected: 08/04/16 11:45 — **Matrix: Solid**
Date Received: 08/05/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	241751	08/09/16 10:27	DTN	TAL CAN

Client Sample ID: C-7878-080416-SSH-6072 — **Lab Sample ID: 240-68013-30**
Date Collected: 08/04/16 11:45 — **Matrix: Solid**
Date Received: 08/05/16 09:20 — **Percent Solids: 98.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			241560	08/08/16 08:26	SDE	TAL CAN
Total/NA	Analysis	8082		10	241995	08/11/16 04:16	LSH	TAL CAN

Client Sample ID: C-7878-080416-SSH-6071 — **Lab Sample ID: 240-68013-31**
Date Collected: 08/04/16 11:50 — **Matrix: Solid**
Date Received: 08/05/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	241751	08/09/16 10:27	DTN	TAL CAN

Client Sample ID: C-7878-080416-SSH-6071 — **Lab Sample ID: 240-68013-31**
Date Collected: 08/04/16 11:50 — **Matrix: Solid**
Date Received: 08/05/16 09:20 — **Percent Solids: 80.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			241560	08/08/16 08:26	SDE	TAL CAN
Total/NA	Analysis	8082		10	241995	08/11/16 04:34	LSH	TAL CAN

Client Sample ID: C-7878-080416-SSH-6060 — **Lab Sample ID: 240-68013-32**
Date Collected: 08/04/16 11:55 — **Matrix: Solid**
Date Received: 08/05/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	241751	08/09/16 10:27	DTN	TAL CAN

Client Sample ID: C-7878-080416-SSH-6060 — **Lab Sample ID: 240-68013-32**
Date Collected: 08/04/16 11:55 — **Matrix: Solid**
Date Received: 08/05/16 09:20 — **Percent Solids: 97.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			241560	08/08/16 08:26	SDE	TAL CAN
Total/NA	Analysis	8082		10	241995	08/11/16 04:51	LSH	TAL CAN

Client Sample ID: C-7878-080416-SSH-001 — **Lab Sample ID: 240-68013-33**
Date Collected: 08/04/16 12:15 — **Matrix: Solid**
Date Received: 08/05/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	241751	08/09/16 10:27	DTN	TAL CAN

Client Sample ID: C-7878-080416-SSH-001 — **Lab Sample ID: 240-68013-33**
Date Collected: 08/04/16 12:15 — **Matrix: Solid**
Date Received: 08/05/16 09:20 — **Percent Solids: 87.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			241573	08/08/16 09:16	SDE	TAL CAN
Total/NA	Analysis	8082		2	241881	08/10/16 10:15	KMG	TAL CAN

Client Sample ID: C-7878-080416-SSH-002 — **Lab Sample ID: 240-68013-34**
Date Collected: 08/04/16 12:20 — **Matrix: Solid**
Date Received: 08/05/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	241751	08/09/16 10:27	DTN	TAL CAN

Client Sample ID: C-7878-080416-SSH-002 — **Lab Sample ID: 240-68013-34**
Date Collected: 08/04/16 12:20 — **Matrix: Solid**
Date Received: 08/05/16 09:20 — **Percent Solids: 97.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			241573	08/08/16 09:16	SDE	TAL CAN
Total/NA	Analysis	8082		1	241881	08/10/16 10:33	KMG	TAL CAN

Client Sample ID: C-7878-080416-SSH-003 — **Lab Sample ID: 240-68013-35**
Date Collected: 08/04/16 12:25 — **Matrix: Solid**
Date Received: 08/05/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	241751	08/09/16 10:27	DTN	TAL CAN

Client Sample ID: C-7878-080416-SSH-003 — **Lab Sample ID: 240-68013-35**
Date Collected: 08/04/16 12:25 — **Matrix: Solid**
Date Received: 08/05/16 09:20 — **Percent Solids: 98.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			241573	08/08/16 09:16	SDE	TAL CAN
Total/NA	Analysis	8082		10	241881	08/10/16 10:51	KMG	TAL CAN

Client Sample ID: C-7878-080416-SSH-004 — **Lab Sample ID: 240-68013-36**
Date Collected: 08/04/16 12:30 — **Matrix: Solid**
Date Received: 08/05/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	241751	08/09/16 10:43	DTN	TAL CAN

Client Sample ID: C-7878-080416-SSH-004 — **Lab Sample ID: 240-68013-36**
Date Collected: 08/04/16 12:30 — **Matrix: Solid**
Date Received: 08/05/16 09:20 — **Percent Solids: 97.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			241573	08/08/16 09:16	SDE	TAL CAN
Total/NA	Analysis	8082		20	241881	08/10/16 11:08	KMG	TAL CAN

Client Sample ID: C-7878-080416-SSH-005 — **Lab Sample ID: 240-68013-37**
Date Collected: 08/04/16 12:35 — **Matrix: Solid**
Date Received: 08/05/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	241751	08/09/16 10:43	DTN	TAL CAN

Client Sample ID: C-7878-080416-SSH-005 — **Lab Sample ID: 240-68013-37**
Date Collected: 08/04/16 12:35 — **Matrix: Solid**
Date Received: 08/05/16 09:20 — **Percent Solids: 81.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			241573	08/08/16 09:16	SDE	TAL CAN
Total/NA	Analysis	8082		10	241881	08/10/16 11:26	KMG	TAL CAN

Client Sample ID: C-7878-080416-SSH-006 — **Lab Sample ID: 240-68013-38**
Date Collected: 08/04/16 12:40 — **Matrix: Solid**
Date Received: 08/05/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	241751	08/09/16 10:43	DTN	TAL CAN

Client Sample ID: C-7878-080416-SSH-006 — **Lab Sample ID: 240-68013-38**
Date Collected: 08/04/16 12:40 — **Matrix: Solid**
Date Received: 08/05/16 09:20 — **Percent Solids: 96.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			241573	08/08/16 09:16	SDE	TAL CAN
Total/NA	Analysis	8082		10	241881	08/10/16 11:44	KMG	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-1

Client Sample ID: C-7878-080416-SSH-007
Lab Sample ID: 240-68013-39
Date Collected: 08/04/16 12:45
Matrix: Solid
Date Received: 08/05/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	241751	08/09/16 10:43	DTN	TAL CAN

Client Sample ID: C-7878-080416-SSH-007
Lab Sample ID: 240-68013-39
Date Collected: 08/04/16 12:45
Matrix: Solid
Date Received: 08/05/16 09:20
Percent Solids: 76.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			241573	08/08/16 09:16	SDE	TAL CAN
Total/NA	Analysis	8082		1	241881	08/10/16 12:02	KMG	TAL CAN

Client Sample ID: C-7878-080416-SSH-009
Lab Sample ID: 240-68013-41
Date Collected: 08/04/16 12:55
Matrix: Solid
Date Received: 08/05/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	241751	08/09/16 10:43	DTN	TAL CAN

Client Sample ID: C-7878-080416-SSH-009
Lab Sample ID: 240-68013-41
Date Collected: 08/04/16 12:55
Matrix: Solid
Date Received: 08/05/16 09:20
Percent Solids: 98.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			241573	08/08/16 09:16	SDE	TAL CAN
Total/NA	Analysis	8082		10	241881	08/10/16 12:19	KMG	TAL CAN

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

Certification Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-1

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
Kentucky (UST)	State Program	4	58	02-23-17
Kentucky (WW)	State Program	4	98016	12-31-16
Minnesota	NELAP	5	039-999-348	12-31-16
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	08-31-16 *
USDA	Federal		P330-13-00319	11-26-16
Washington	State Program	10	C971	01-12-17
West Virginia DEP	State Program	3	210	12-31-16
Wisconsin	State Program	5	999518190	08-31-16 *

* Certification renewal pending - certification considered valid.

TestAmerica Michigan
10448 Citation Drive
Suite 200
Brighton, MI 48116
Phone: 810.229.2763 Fax:

1.5|C2.5

Chain of Custody Record

163070

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other:

Client Contact	Project Manager: M. Tomka	Site Contact: JF Pardys	Date: 8/4/16	COC No: 163070-163073
Company Name: GHD	Tel/Fax: 519 884 0510	Lab Contact: D. Huckle	Carrier: Fedex	1 of 4 COCs
Address: 14496 N. Sheldon Rd Ste 200	Analysis Turnaround Time			Sampler: S Hoevenaar
City/State/Zip: Plymouth, MI 48170	☒ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 734 453 5123	TAT if different from Below			Walk-in Client:
Fax:	☐ 2 weeks ☒ 1 week ☐ 2 days ☐ 1 day			Lab Sampling:
Project Name: RacerTrust SMI				Job / SDG No.:
Site: SSOW 7678-T01-012				
P O #				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	PCBs	Sample Specific Notes:
L-7878-080416-SSH-6083	8/4/16	0900	G	L	1	N	N	X	Hold
-6084		0905	G	L	1	N	N	X	Hold
-6081		0910	G	L	1	N	N	X	Hold
-6082		0915	G	L	1	N	N	X	Hold
-6087		0920	G	L	1	N	N	X	Hold
-6088		0925	G	L	1	N	N	X	Hold
-6085		0930	G	L	1	N	N	X	Hold
-6086		0935	G	L	1	N	N	X	Hold
-6065		0945	G	L	1	N	N	X	
-6066		0950	G	L	1	N	N	X	
-6067		0955	G	L	1	N	N	X	
L-7878-080416-SSH-6068		1000	G	L	1	N	N	X	

240-68013 Chain of Custody

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.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.: 959284	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____	Therm ID No.: _____

	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	GHD	8/4/16 1600		TANC	8/5/16 9:20
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

8/11/2016

TestAmerica Michigan
10448 Citation Drive
Suite 200
Brighton, MI 48116
Phone: 810.229.2763 Fax:

Chain of Custody Record

163071

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: M. Tomka	Site Contact: JE Parkys	Date: 8/4/16	COC No: 163071
Company Name: GHD	Tel/Fax: 519 884 0510	Lab Contact: D. Hawkins	Carrier: FedEx	3 of 4 COCs
Address:	Analysis Turnaround Time			Sampler: S. Hawkins
City/State/Zip:	☒ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone:	TAT if different from Below _____			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: RacTrust SMI	☒ 1 week			
Site: SSOW 9878-T01-012	☐ 2 days			Job / SDG No.:
PO #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs	Sample Specific Notes:
L-7878-080416-SSH-6073	8/4/16	1010	G	C	1	N	N	X	
-6075		1015	G	C	1	N	N	X	
-6074		1020	G	C	1	N	N	X	
-6076		1025	G	C	1	N	N	X	
-6079		1030	G	C	1	N	N	X	
-6080		1035	G	C	1	N	N	X	
-6077		1045	G	C	1	N	N	X	
-6078		1050	G	C	1	N	N	X	
-6057		1055	G	C	1	N	N	X	
-6058		1100	G	C	1	N	N	X	
-6063		1110	G	C	1	N	N	X	
L-7878-080416-SSH-6064		1115	G	C	1	N	N	X	

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.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.: 955284	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____	Therm ID No.: _____

	Company	Date/Time	Received by:	Company	Date/Time
Relinquished by:	GHD	8/4/16 1600		TANC	8/5/16 9:20
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

8/11/2016

TestAmerica Michigan
10448 Citation Drive
Suite 200
Brighton, MI 48116
Phone: 810.229.2763 Fax:

Chain of Custody Record

163072

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: M. Tomka	Site Contact: JE Pardys	Date: 8/4/16	COC No: 163072
Company Name: GHD	Tel/Fax: 519 884 0510	Lab Contact: A. Huckle	Carrier: FedEx	3 of 4 COCs
Address	Analysis Turnaround Time			Sampler: S. Hovencamp
City/State/Zip:	☒ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone:	TAT if different from Below _____			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: RacerTrust SMT	☒ 1 week			
Site: SSOW 7878-101-012	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	ABs	Sample Specific Notes:
C-7878-080416-SSH-6061	8/4/16	1120	G	C	1	N	N	X	
-6062		1125	G	C	1	N	N	X	
-6059		1130	G	C	1	N	N	X	
-6070		1135	G	C	1	N	N	X	
-6069		1140	G	C	1	N	N	X	
-6072		1145	G	C	1	N	N	X	
-6071		1150	G	C	1	N	N	X	
-6060		1155	G	C	1	N	N	X	
-001		1215	G	C	1	N	N	X	
-002		1220	G	C	1	N	N	X	
-003		1225	G	C	1	N	N	X	
C-7878-080416-SSH-004		1230	G	C	1	N	N	X	

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.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.: 459284	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____	Therm ID No.: _____
Relinquished by:	Company: GHD	Date/Time: 8/4/16 1600	Received by:	Company: FAWC	Date/Time: 8/5/16 9:20
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

8/11/2016

TestAmerica Michigan
10448 Citation Drive
Suite 200
Brighton, MI 48116
Phone: 810.229.2763 Fax:

Chain of Custody Record

163073

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: M. Tomka	Site Contact: JE Pardys	Date: 8/4/16	COC No: 163073
Company Name: GHD	Tel/Fax: 519 884 0510	Lab Contact: D. Hurlbut	Carrier: FedEx	4 of 4 COCs
Address:	Analysis Turnaround Time			Sampler: S Hoekmeyer
City/State/Zip:	☒ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone:	TAT if different from Below _____			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Ravenrust SMI	☒ 1 week			Job / SDG No.:
Site: SSOW 7878-TO1-012	☐ 2 days			
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs	Sample Specific Notes:
L-7878-080416-SSH-005	8/4/16	1235	G	L	1	N	N	X	
-006		1240	G	L	1	N	N	X	
-007		1245	G	L	1	N	N	X	
-008		1250	G	L	1	N	N	X	Hold
-009		1255	G	L	1	N	N	X	
-010		1300	G	L	1	N	N	X	Hold
-7878-080416-SSH-011		1305	G	L	1	N	N	X	Hold
SSH									

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.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.: 959284	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____	Therm ID No.: _____
Relinquished by:	Company: GHD	Date/Time: 8/4/16 1600	Received by:	Company: TAMC	Date/Time: 8/5/16 9:20
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

8/11/2016

TestAmerica Canton Sample Receipt Form/Narrative **Login # :** 67013
Canton Facility

Client GHD Site Name _____ Cooler unpacked by: [signature]

Cooler Received on 8/5/16 Opened on 8/5/16

FedEx: 1st Grd (Exp) UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # _____ Foam Box (Client Cooler) Box Other _____

Packing material used: ~~Bubble Wrap~~ Foam Plastic Bag None Other _____

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form
   IR GUN# IR-8 (CF +1.3 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
   IR GUN #36 (CF +1.0°C) Observed Cooler Temp. 1.5 °C Corrected Cooler Temp. 2.5 °C
2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1 (Yes) No
   -Were custody seals on the outside of the cooler(s) signed & dated? (Yes) No NA
   -Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes (No)
3. Shippers' packing slip attached to the cooler(s)? (Yes) No
4. Did custody papers accompany the sample(s)? (Yes) No
5. Were the custody papers relinquished & signed in the appropriate place? (Yes) No
6. Was/were the person(s) who collected the samples clearly identified on the COC? (Yes) No
7. Did all bottles arrive in good condition (Unbroken)? (Yes) No
8. Could all bottle labels be reconciled with the COC? (Yes) No
9. Were correct bottle(s) used for the test(s) indicated? (Yes) No
10. Sufficient quantity received to perform indicated analyses? (Yes) No
11. Are these work share samples? Yes (No)
    If yes, Questions 11-15 have been checked at the originating laboratory.
11. Were sample(s) at the correct pH upon receipt? Yes No (NA) pH Strip Lot# **HC574756**
12. Were VOAs on the COC? Yes (No)
13. Were air bubbles >6 mm in any VOA vials? Yes No (NA)
14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes (No)
15. Was a LL Hg or Me Hg trip blank present? _____ Yes (No)

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

6084, 6085, 6079, 6080
6069, 6071 6001, 6005, 6007
6011. Samples rec'd w/ water in bag.

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____

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: 240-68013-3
Client Project/Site: 7878, RACER SMI

For:
GHD Services Inc.
14496 Sheldon Road, Suite 200
Plymouth, Michigan 48170

Attn: Rawa Fleisher

Denise D Heckler

Authorized for release by:
8/15/2016 9:26:45 AM

Denise Heckler, Project Manager II
(330)966-9477
denise.heckler@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: 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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Job ID: 240-68013-3

Laboratory: TestAmerica Canton

Narrative

Job Narrative
240-68013-3

Comments
Select samples were taken off hold by GHD on August 9, 2016.

Receipt
The samples were received on 8/5/2016 9:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.5º C.

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

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

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

Qualifiers

GC Semi VOA

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.
¤	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)

Sample Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-68013-2	C-7878-080416-SSH-6084	Solid	08/04/16 09:05	08/05/16 09:20
240-68013-3	C-7878-080416-SSH-6081	Solid	08/04/16 09:10	08/05/16 09:20
240-68013-4	C-7878-080416-SSH-6082	Solid	08/04/16 09:15	08/05/16 09:20

Detection Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-3

Client Sample ID: C-7878-080416-SSH-6084 — Lab Sample ID: 240-68013-2

No Detections.

Client Sample ID: C-7878-080416-SSH-6081 — Lab Sample ID: 240-68013-3

No Detections.

Client Sample ID: C-7878-080416-SSH-6082 — Lab Sample ID: 240-68013-4

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-3

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
Moisture	Percent Moisture	EPA	TAL CAN

Protocol References:

EPA = US Environmental Protection Agency

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

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-3

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-080416-SSH-6084
Date Collected: 08/04/16 09:05
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-2
Matrix: Solid
Percent Solids: 83.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	220	U	220	82	ug/Kg	☼	08/10/16 09:54	08/12/16 08:46	1
Aroclor-1221	220	U	220	110	ug/Kg	☼	08/10/16 09:54	08/12/16 08:46	1
Aroclor-1232	220	U	220	140	ug/Kg	☼	08/10/16 09:54	08/12/16 08:46	1
Aroclor-1242	220	U	220	75	ug/Kg	☼	08/10/16 09:54	08/12/16 08:46	1
Aroclor-1248	220	U	220	54	ug/Kg	☼	08/10/16 09:54	08/12/16 08:46	1
Aroclor-1254	220	U	220	95	ug/Kg	☼	08/10/16 09:54	08/12/16 08:46	1
Aroclor-1260	220	U	220	61	ug/Kg	☼	08/10/16 09:54	08/12/16 08:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*58*		*14 - 128*	*08/10/16 09:54*	*08/12/16 08:46*	*1*
DCB Decachlorobiphenyl	*66*		*10 - 132*	*08/10/16 09:54*	*08/12/16 08:46*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-3

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-080416-SSH-6081
Date Collected: 08/04/16 09:10
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-3
Matrix: Solid
Percent Solids: 92.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	210	U	210	75	ug/Kg	☼	08/10/16 09:54	08/12/16 09:04	1
Aroclor-1221	210	U	210	100	ug/Kg	☼	08/10/16 09:54	08/12/16 09:04	1
Aroclor-1232	210	U	210	120	ug/Kg	☼	08/10/16 09:54	08/12/16 09:04	1
Aroclor-1242	210	U	210	69	ug/Kg	☼	08/10/16 09:54	08/12/16 09:04	1
Aroclor-1248	210	U	210	50	ug/Kg	☼	08/10/16 09:54	08/12/16 09:04	1
Aroclor-1254	210	U	210	87	ug/Kg	☼	08/10/16 09:54	08/12/16 09:04	1
Aroclor-1260	210	U	210	56	ug/Kg	☼	08/10/16 09:54	08/12/16 09:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*55*		*14 - 128*	*08/10/16 09:54*	*08/12/16 09:04*	*1*
DCB Decachlorobiphenyl	*61*		*10 - 132*	*08/10/16 09:54*	*08/12/16 09:04*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-3

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-080416-SSH-6082
Date Collected: 08/04/16 09:15
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-4
Matrix: Solid
Percent Solids: 93.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	210	U	210	75	ug/Kg	☼	08/10/16 09:54	08/12/16 09:22	1
Aroclor-1221	210	U	210	100	ug/Kg	☼	08/10/16 09:54	08/12/16 09:22	1
Aroclor-1232	210	U	210	120	ug/Kg	☼	08/10/16 09:54	08/12/16 09:22	1
Aroclor-1242	210	U	210	69	ug/Kg	☼	08/10/16 09:54	08/12/16 09:22	1
Aroclor-1248	210	U	210	50	ug/Kg	☼	08/10/16 09:54	08/12/16 09:22	1
Aroclor-1254	210	U	210	87	ug/Kg	☼	08/10/16 09:54	08/12/16 09:22	1
Aroclor-1260	210	U	210	56	ug/Kg	☼	08/10/16 09:54	08/12/16 09:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*63*		*14 - 128*	*08/10/16 09:54*	*08/12/16 09:22*	*1*
DCB Decachlorobiphenyl	*72*		*10 - 132*	*08/10/16 09:54*	*08/12/16 09:22*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-3

General Chemistry

Client Sample ID: C-7878-080416-SSH-6084
Date Collected: 08/04/16 09:05
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-2
Matrix: Solid
Percent Solids: 83.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	83.7		0.1	0.1	%			08/09/16 09:29	1
Percent Moisture	16.3		0.1	0.1	%			08/09/16 09:29	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-3

General Chemistry

Client Sample ID: C-7878-080416-SSH-6081
Date Collected: 08/04/16 09:10
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-3
Matrix: Solid
Percent Solids: 92.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	92.9		0.1	0.1	%			08/09/16 09:29	1
Percent Moisture	7.1		0.1	0.1	%			08/09/16 09:29	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-3

General Chemistry

Client Sample ID: C-7878-080416-SSH-6082
Date Collected: 08/04/16 09:15
Date Received: 08/05/16 09:20

Lab Sample ID: 240-68013-4
Matrix: Solid
Percent Solids: 93.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	93.1		0.1	0.1	%			08/09/16 09:29	1
Percent Moisture	6.9		0.1	0.1	%			08/09/16 09:29	1

QC Association Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-3

GC Semi VOA

Prep Batch: 241957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-68013-2	C-7878-080416-SSH-6084	Total/NA	Solid	3540C	
240-68013-3	C-7878-080416-SSH-6081	Total/NA	Solid	3540C	
240-68013-4	C-7878-080416-SSH-6082	Total/NA	Solid	3540C	
MB 240-241957/12-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-241957/13-A	Lab Control Sample	Total/NA	Solid	3540C	

Analysis Batch: 242241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-68013-2	C-7878-080416-SSH-6084	Total/NA	Solid	8082	241957
240-68013-3	C-7878-080416-SSH-6081	Total/NA	Solid	8082	241957
240-68013-4	C-7878-080416-SSH-6082	Total/NA	Solid	8082	241957
MB 240-241957/12-A	Method Blank	Total/NA	Solid	8082	241957
LCS 240-241957/13-A	Lab Control Sample	Total/NA	Solid	8082	241957

General Chemistry

Analysis Batch: 241751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-68013-2	C-7878-080416-SSH-6084	Total/NA	Solid	Moisture	
240-68013-3	C-7878-080416-SSH-6081	Total/NA	Solid	Moisture	
240-68013-4	C-7878-080416-SSH-6082	Total/NA	Solid	Moisture	
240-68013-4 DU	C-7878-080416-SSH-6082	Total/NA	Solid	Moisture	

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-241957/12-A
Matrix: Solid
Analysis Batch: 242241

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 241957

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	200	U	200	72	ug/Kg		08/10/16 09:54	08/12/16 12:01	1
Aroclor-1221	200	U	200	96	ug/Kg		08/10/16 09:54	08/12/16 12:01	1
Aroclor-1232	200	U	200	120	ug/Kg		08/10/16 09:54	08/12/16 12:01	1
Aroclor-1242	200	U	200	66	ug/Kg		08/10/16 09:54	08/12/16 12:01	1
Aroclor-1248	200	U	200	48	ug/Kg		08/10/16 09:54	08/12/16 12:01	1
Aroclor-1254	200	U	200	84	ug/Kg		08/10/16 09:54	08/12/16 12:01	1
Aroclor-1260	200	U	200	54	ug/Kg		08/10/16 09:54	08/12/16 12:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*59*		*14 - 128*	*08/10/16 09:54*	*08/12/16 12:01*	*1*
DCB Decachlorobiphenyl	*68*		*10 - 132*	*08/10/16 09:54*	*08/12/16 12:01*	*1*

Lab Sample ID: LCS 240-241957/13-A
Matrix: Solid
Analysis Batch: 242241

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 241957

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor-1016			2000	968		ug/Kg		48	47 - 120		
Aroclor-1260			2000	1070		ug/Kg		53	46 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*41*		*14 - 128*
DCB Decachlorobiphenyl	*54*		*10 - 132*

Method: Moisture - Percent Moisture

Lab Sample ID: 240-68013-4 DU
Matrix: Solid
Analysis Batch: 241751

Client Sample ID: C-7878-080416-SSH-6082
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Solids	93.1			93.5		%				0.4	20
Percent Moisture	6.9			6.5		%				6	20

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-3

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX2 (14-128)	DCB2 (10-132)
240-68013-2	C-7878-080416-SSH-6084	58	66
240-68013-3	C-7878-080416-SSH-6081	55	61
240-68013-4	C-7878-080416-SSH-6082	63	72
LCS 240-241957/13-A	Lab Control Sample	41	54
MB 240-241957/12-A	Method Blank	59	68

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-3

Client Sample ID: C-7878-080416-SSH-6084
Lab Sample ID: 240-68013-2
Date Collected: 08/04/16 09:05
Matrix: Solid
Date Received: 08/05/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	241751	08/09/16 09:29	DTN	TAL CAN

Client Sample ID: C-7878-080416-SSH-6084
Lab Sample ID: 240-68013-2
Date Collected: 08/04/16 09:05
Matrix: Solid
Date Received: 08/05/16 09:20
Percent Solids: 83.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			241957	08/10/16 09:54	YDN	TAL CAN
Total/NA	Analysis	8082		1	242241	08/12/16 08:46	KMG	TAL CAN

Client Sample ID: C-7878-080416-SSH-6081
Lab Sample ID: 240-68013-3
Date Collected: 08/04/16 09:10
Matrix: Solid
Date Received: 08/05/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	241751	08/09/16 09:29	DTN	TAL CAN

Client Sample ID: C-7878-080416-SSH-6081
Lab Sample ID: 240-68013-3
Date Collected: 08/04/16 09:10
Matrix: Solid
Date Received: 08/05/16 09:20
Percent Solids: 92.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			241957	08/10/16 09:54	YDN	TAL CAN
Total/NA	Analysis	8082		1	242241	08/12/16 09:04	KMG	TAL CAN

Client Sample ID: C-7878-080416-SSH-6082
Lab Sample ID: 240-68013-4
Date Collected: 08/04/16 09:15
Matrix: Solid
Date Received: 08/05/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	241751	08/09/16 09:29	DTN	TAL CAN

Client Sample ID: C-7878-080416-SSH-6082
Lab Sample ID: 240-68013-4
Date Collected: 08/04/16 09:15
Matrix: Solid
Date Received: 08/05/16 09:20
Percent Solids: 93.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			241957	08/10/16 09:54	YDN	TAL CAN
Total/NA	Analysis	8082		1	242241	08/12/16 09:22	KMG	TAL CAN

Laboratory References:

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

Certification Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68013-3

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
Kentucky (UST)	State Program	4	58	02-23-17
Kentucky (WW)	State Program	4	98016	12-31-16
Minnesota	NELAP	5	039-999-348	12-31-16
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	08-31-16 *
USDA	Federal		P330-13-00319	11-26-16
Washington	State Program	10	C971	01-12-17
West Virginia DEP	State Program	3	210	12-31-16
Wisconsin	State Program	5	999518190	08-31-16 *

* Certification renewal pending - certification considered valid.

TestAmerica Michigan
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Phone: 810.229.2763 Fax:

1.5|C2.5

Chain of Custody Record

163070

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other:

Client Contact	Project Manager: M. Tomka	Site Contact: JF Pardys	Date: 8/4/16	COC No: 163070 - 163073
Company Name: GHD	Tel/Fax: 519 884 0510	Lab Contact: D. Hecht	Carrier: Fedex	1 of 4 COCs
Address: 14496 N. Sheldon Rd Ste 200	Analysis Turnaround Time			Sampler: S Hoevenaar
City/State/Zip: Plymouth, MI 48170	☒ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 734 453 5123	TAT if different from Below			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: RacerTrust SMI	☒ 1 week			
Site: SSOW 7678-T01-012	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	PCBs	Sample Specific Notes:
C-7878-080416-SSH-6083	8/4/16	0900	G	C	1	N	N	X	Hold
-6084		0905	G	C	1	N	N	X	Hold
-6081		0910	G	C	1	N	N	X	Hold
-6082		0915	G	C	1	N	N	X	Hold
-6087		0920	G	C	1	N	N	X	Hold
-6088		0925	G	C	1	N	N	X	Hold
-6085		0930	G	C	1	N	N	X	Hold
-6086		0935	G	C	1	N	N	X	Hold
-6065		0945	G	C	1	N	N	X	
-6066		0950	G	C	1	N	N	X	
-6067		0955	G	C	1	N	N	X	
C-7878-080416-SSH-6068		1000	G	C	1	N	N	X	

240-68013 Chain of Custody

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.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: 959284 | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ | Therm ID No.:_____

	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	GHD	8/4/16 1600		TANC	8/5/16 9:20
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

8/15/2016

TestAmerica Michigan
10448 Citation Drive
Suite 200
Brighton, MI 48116
Phone: 810.229.2763 Fax:

Chain of Custody Record

163071

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: M. Tomka	Site Contact: JF Parkys	Date: 8/4/16	COC No: 163071
Company Name: GHD	Tel/Fax: 519 884 0510	Lab Contact: D. Hawkins	Carrier: FedEx	3 of 4 COCs
Address:	Analysis Turnaround Time			Sampler: S. Hawkins
City/State/Zip:	☒ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone:	TAT if different from Below _____			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: RacTrust SMI	☒ 1 week			
Site: SSOW 9878-T01-012	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs	Sample Specific Notes:
L-7878-080416-SSH-6073	8/4/16	1010	G	C	1	N	N	X	
-6075		1015	G	C	1	N	N	X	
-6074		1020	G	C	1	N	N	X	
-6076		1025	G	C	1	N	N	X	
-6079		1030	G	C	1	N	N	X	
-6080		1035	G	C	1	N	N	X	
-6077		1045	G	C	1	N	N	X	
-6078		1050	G	C	1	N	N	X	
-6057		1055	G	C	1	N	N	X	
-6058		1100	G	C	1	N	N	X	
-6063		1110	G	C	1	N	N	X	
L-7878-080416-SSH-6064		1115	G	C	1	N	N	X	

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.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.: 955284	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____	Therm ID No.: _____

	Company	Date/Time	Received by:	Company	Date/Time
Relinquished by:	GHD	8/4/16 1600		TANC	8/5/16 9:20
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

8/15/2016

TestAmerica Michigan
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Suite 200
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Phone: 810.229.2763 Fax:

Chain of Custody Record

163072

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: M. Tomka	Site Contact: JE Pardys	Date: 8/4/16	COC No: 163072
Company Name: GHD	Tel/Fax: 519 884 0510	Lab Contact: A. Huckle	Carrier: FedEx	3 of 4 COCs
Address	Analysis Turnaround Time			Sampler: S, Hovencamp
City/State/Zip:	☒ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone:	TAT if different from Below _____			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: RacerTrust SMT	☒ 1 week			
Site: SSOW 7878-101-012	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	ABs	Sample Specific Notes:
C-7878-080416-SSH-6061	8/4/16	1120	G	C	1	N	N	X	
-6062		1125	G	C	1	N	N	X	
-6059		1130	G	C	1	N	N	X	
-6070		1135	G	C	1	N	N	X	
-6069		1140	G	C	1	N	N	X	
-6072		1145	G	C	1	N	N	X	
-6071		1150	G	C	1	N	N	X	
-6060		1155	G	C	1	N	N	X	
-001		1215	G	C	1	N	N	X	
-002		1220	G	C	1	N	N	X	
-003		1225	G	C	1	N	N	X	
C-7878-080416-SSH-004		1230	G	C	1	N	N	X	

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.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.: 459284	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____	Therm ID No.: _____
Relinquished by:	Company: GHD	Date/Time: 8/4/16 1600	Received by:	Company: FAWC	Date/Time: 8/5/16 9:20
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

TestAmerica Michigan
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Phone: 810.229.2763 Fax:

Chain of Custody Record

163073

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: M. Tomka	Site Contact: JE Pardys	Date: 8/4/16	COC No: 163073
Company Name: GHD	Tel/Fax: 517 884 0510	Lab Contact: D. Hurmi	Carrier: FedEx	4 of 4 COCs
Address:	Analysis Turnaround Time			Sampler: S Hoeksema
City/State/Zip:	☒ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone:	TAT if different from Below _____			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Rasmussen SMI	☒ 1 week			Job / SDG No.:
Site: SSOW 7878-TO1-012	☐ 2 days			
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	PCBs	Sample Specific Notes:
L-7878-080416-SSH-005	8/4/16	1235	G	L	1	N	N	X	
-006		1240	G	L	1	N	N	X	
-007		1245	G	L	1	N	N	X	
-008		1250	G	L	1	N	N	X	Hold
-009		1255	G	L	1	N	N	X	
-010		1300	G	L	1	N	N	X	Hold
-7878-080416-SSH-011		1305	G	L	1	N	N	X	Hold
SSH									

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.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.: 959284	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____	Therm ID No.: _____
Relinquished by:	Company: GHD	Date/Time: 8/4/16 1600	Received by:	Company: TAMC	Date/Time: 8/5/16 9:20
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

8/15/2016

TestAmerica Canton Sample Receipt Form/Narrative **Login # :** 68013

Canton Facility

Client GHD Site Name

Cooler Received on 8/5/16 Opened on 8/5/16 Cooler unpacked by:

FedEx: 1st Grd (Exp) UPS FAS Stetson Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

TestAmerica Cooler # Foam Box (Client Cooler) Box Other

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN# IR-8 (CF +1.3 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C

IR GUN #36 (CF +1.0°C) Observed Cooler Temp. 1.5 °C Corrected Cooler Temp. 2.5 °C

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1 (Yes) No
   -Were custody seals on the outside of the cooler(s) signed & dated? (Yes) No NA
   -Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes (No)
3. Shippers' packing slip attached to the cooler(s)? (Yes) No
4. Did custody papers accompany the sample(s)? (Yes) No
5. Were the custody papers relinquished & signed in the appropriate place? (Yes) No
6. Was/were the person(s) who collected the samples clearly identified on the COC? (Yes) No
7. Did all bottles arrive in good condition (Unbroken)? (Yes) No
8. Could all bottle labels be reconciled with the COC? (Yes) No
9. Were correct bottle(s) used for the test(s) indicated? (Yes) No
10. Sufficient quantity received to perform indicated analyses? (Yes) No
11. Are these work share samples? Yes (No)
    If yes, Questions 11-15 have been checked at the originating laboratory.
11. Were sample(s) at the correct pH upon receipt? Yes No (NA) pH Strip Lot# **HC574756**
12. Were VOAs on the COC? Yes (No)
13. Were air bubbles >6 mm in any VOA vials? Yes No (NA)
14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # Yes (No)
15. Was a LL Hg or Me Hg trip blank present? Yes (No)

Contacted PM Date by via Verbal Voice Mail Other

Concerning

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

60084, 60085, 60079, 60080
60069, 60071 60001, 60005, 60007
60011. Samples rec'd w/ water in bag.

15. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.

Sample(s) were received in a broken container.

Sample(s) were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory.

Time preserved: Preservative(s) added/Lot number(s):

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: 240-68583-1
Client Project/Site: 7878, RACER SMI

For:
GHD Services Inc.
14496 Sheldon Road, Suite 200
Plymouth, Michigan 48170

Attn: Rawa Fleisher

Denise D Heckler

Authorized for release by:
8/26/2016 10:00:38 AM

Denise Heckler, Project Manager II
(330)966-9477
denise.heckler@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: 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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Job ID: 240-68583-1

Laboratory: TestAmerica Canton

Narrative

Job Narrative
240-68583-1

Comments
No additional comments.

Receipt
The samples were received on 8/20/2016 8:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.6º C.

GC Semi VOA
Method(s) 8082: The following samples 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: C-7878-081916-SSH-6089 (240-68583-1), C-7878-081916-SSH-6104 (240-68583-2), C-7878-081916-SSH-6105 (240-68583-3), C-7878-081916-SSH-6092 (240-68583-7), C-7878-081916-SSH-6093 (240-68583-11), C-7878-081916-SSH-6091 (240-68583-12), C-7878-081916-SSH-6090 (240-68583-14), C-7878-081916-SSH-6097 (240-68583-15), C-7878-081916-SSH-6096 (240-68583-17), C-7878-081916-SSH-6098 (240-68583-18), C-7878-081916-SSH-6094 (240-68583-19), C-7878-081916-SSH-6095 (240-68583-20), C-7878-081916-SSH-A1A (240-68583-21) and C-7878-081916-SSH-A1B (240-68583-22). Due to the poor match with the Aroclor standards, there is increased qualitative and quantitative uncertainty associated with this result.

Method(s) 8082: The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: C-7878-081916-SSH-6097 (240-68583-15) and C-7878-081916-SSH-A1A (240-68583-21). 2672825, 2103098, 2283705.

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

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

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

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
X	Surrogate is outside control limits

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
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)

Sample Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68583-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-68583-1	C-7878-081916-SSH-6089	Solid	08/19/16 10:30	08/20/16 08:40
240-68583-2	C-7878-081916-SSH-6104	Solid	08/19/16 10:35	08/20/16 08:40
240-68583-3	C-7878-081916-SSH-6105	Solid	08/19/16 10:40	08/20/16 08:40
240-68583-7	C-7878-081916-SSH-6092	Solid	08/19/16 11:00	08/20/16 08:40
240-68583-11	C-7878-081916-SSH-6093	Solid	08/19/16 11:20	08/20/16 08:40
240-68583-12	C-7878-081916-SSH-6091	Solid	08/19/16 11:25	08/20/16 08:40
240-68583-14	C-7878-081916-SSH-6090	Solid	08/19/16 11:35	08/20/16 08:40
240-68583-15	C-7878-081916-SSH-6097	Solid	08/19/16 11:40	08/20/16 08:40
240-68583-17	C-7878-081916-SSH-6096	Solid	08/19/16 11:50	08/20/16 08:40
240-68583-18	C-7878-081916-SSH-6098	Solid	08/19/16 11:55	08/20/16 08:40
240-68583-19	C-7878-081916-SSH-6094	Solid	08/19/16 12:00	08/20/16 08:40
240-68583-20	C-7878-081916-SSH-6095	Solid	08/19/16 12:05	08/20/16 08:40
240-68583-21	C-7878-081916-SSH-A1A	Solid	08/19/16 12:25	08/20/16 08:40
240-68583-22	C-7878-081916-SSH-A1B	Solid	08/19/16 12:30	08/20/16 08:40

Detection Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68583-1

Client Sample ID: C-7878-081916-SSH-6089 — Lab Sample ID: 240-68583-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	5600		510	140	ug/Kg	5	☼	8082	Total/NA

Client Sample ID: C-7878-081916-SSH-6104 — Lab Sample ID: 240-68583-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	2900		510	140	ug/Kg	5	☼	8082	Total/NA

Client Sample ID: C-7878-081916-SSH-6105 — Lab Sample ID: 240-68583-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	5900		510	140	ug/Kg	5	☼	8082	Total/NA

Client Sample ID: C-7878-081916-SSH-6092 — Lab Sample ID: 240-68583-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	34000		5000	1400	ug/Kg	50	☼	8082	Total/NA

Client Sample ID: C-7878-081916-SSH-6093 — Lab Sample ID: 240-68583-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	1200000		100000	28000	ug/Kg	1000	☼	8082	Total/NA

Client Sample ID: C-7878-081916-SSH-6091 — Lab Sample ID: 240-68583-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	330000		20000	5700	ug/Kg	200	☼	8082	Total/NA

Client Sample ID: C-7878-081916-SSH-6090 — Lab Sample ID: 240-68583-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	5200000		510000	140000	ug/Kg	5000	☼	8082	Total/NA

Client Sample ID: C-7878-081916-SSH-6097 — Lab Sample ID: 240-68583-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	16000		2000	560	ug/Kg	20	☼	8082	Total/NA

Client Sample ID: C-7878-081916-SSH-6096 — Lab Sample ID: 240-68583-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	12000		1000	280	ug/Kg	10	☼	8082	Total/NA

Client Sample ID: C-7878-081916-SSH-6098 — Lab Sample ID: 240-68583-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	27000		5100	1400	ug/Kg	50	☼	8082	Total/NA

Client Sample ID: C-7878-081916-SSH-6094 — Lab Sample ID: 240-68583-19

This Detection Summary does not include radiochemical test results.

Client Sample ID: C-7878-081916-SSH-6094 (Continued) — Lab Sample ID: 240-68583-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	4200		520	140	ug/Kg	5	☼	8082	Total/NA

Client Sample ID: C-7878-081916-SSH-6095 — Lab Sample ID: 240-68583-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	5100		490	140	ug/Kg	5	☼	8082	Total/NA

Client Sample ID: C-7878-081916-SSH-A1A — Lab Sample ID: 240-68583-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	18000		2000	570	ug/Kg	20	☼	8082	Total/NA

Client Sample ID: C-7878-081916-SSH-A1B — Lab Sample ID: 240-68583-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	3900		510	140	ug/Kg	5	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68583-1

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
Moisture	Percent Moisture	EPA	TAL CAN

Protocol References:

EPA = US Environmental Protection Agency

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

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68583-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-081916-SSH-6089
Date Collected: 08/19/16 10:30
Date Received: 08/20/16 08:40

Lab Sample ID: 240-68583-1
Matrix: Solid
Percent Solids: 97.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	510	U	510	240	ug/Kg	☼	08/23/16 10:01	08/25/16 19:44	5
Aroclor-1221	510	U	510	230	ug/Kg	☼	08/23/16 10:01	08/25/16 19:44	5
Aroclor-1232	510	U	510	160	ug/Kg	☼	08/23/16 10:01	08/25/16 19:44	5
Aroclor-1242	510	U	510	200	ug/Kg	☼	08/23/16 10:01	08/25/16 19:44	5
Aroclor-1248	510	U	510	170	ug/Kg	☼	08/23/16 10:01	08/25/16 19:44	5
Aroclor-1254	**5600**		510	140	ug/Kg	☼	08/23/16 10:01	08/25/16 19:44	5
Aroclor-1260	510	U	510	180	ug/Kg	☼	08/23/16 10:01	08/25/16 19:44	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*66*		*14 - 128*	*08/23/16 10:01*	*08/25/16 19:44*	*5*
DCB Decachlorobiphenyl	*70*		*10 - 132*	*08/23/16 10:01*	*08/25/16 19:44*	*5*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68583-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-081916-SSH-6104
Date Collected: 08/19/16 10:35
Date Received: 08/20/16 08:40

Lab Sample ID: 240-68583-2
Matrix: Solid
Percent Solids: 95.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	510	U	510	250	ug/Kg	☼	08/23/16 10:01	08/25/16 20:02	5
Aroclor-1221	510	U	510	240	ug/Kg	☼	08/23/16 10:01	08/25/16 20:02	5
Aroclor-1232	510	U	510	160	ug/Kg	☼	08/23/16 10:01	08/25/16 20:02	5
Aroclor-1242	510	U	510	210	ug/Kg	☼	08/23/16 10:01	08/25/16 20:02	5
Aroclor-1248	510	U	510	170	ug/Kg	☼	08/23/16 10:01	08/25/16 20:02	5
Aroclor-1254	**2900**		510	140	ug/Kg	☼	08/23/16 10:01	08/25/16 20:02	5
Aroclor-1260	510	U	510	180	ug/Kg	☼	08/23/16 10:01	08/25/16 20:02	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*62*		*14 - 128*	*08/23/16 10:01*	*08/25/16 20:02*	*5*
DCB Decachlorobiphenyl	*67*		*10 - 132*	*08/23/16 10:01*	*08/25/16 20:02*	*5*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68583-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-081916-SSH-6105
Date Collected: 08/19/16 10:40
Date Received: 08/20/16 08:40

Lab Sample ID: 240-68583-3
Matrix: Solid
Percent Solids: 97.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	510	U	510	250	ug/Kg	☼	08/23/16 10:01	08/25/16 20:19	5
Aroclor-1221	510	U	510	240	ug/Kg	☼	08/23/16 10:01	08/25/16 20:19	5
Aroclor-1232	510	U	510	160	ug/Kg	☼	08/23/16 10:01	08/25/16 20:19	5
Aroclor-1242	510	U	510	200	ug/Kg	☼	08/23/16 10:01	08/25/16 20:19	5
Aroclor-1248	510	U	510	170	ug/Kg	☼	08/23/16 10:01	08/25/16 20:19	5
Aroclor-1254	**5900**		510	140	ug/Kg	☼	08/23/16 10:01	08/25/16 20:19	5
Aroclor-1260	510	U	510	180	ug/Kg	☼	08/23/16 10:01	08/25/16 20:19	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*14 - 128*	*08/23/16 10:01*	*08/25/16 20:19*	*5*
DCB Decachlorobiphenyl	*75*		*10 - 132*	*08/23/16 10:01*	*08/25/16 20:19*	*5*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68583-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-081916-SSH-6092
Date Collected: 08/19/16 11:00
Date Received: 08/20/16 08:40

Lab Sample ID: 240-68583-7
Matrix: Solid
Percent Solids: 99.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	5000	U	5000	2400	ug/Kg	☼	08/23/16 10:01	08/25/16 20:37	50
Aroclor-1221	5000	U	5000	2300	ug/Kg	☼	08/23/16 10:01	08/25/16 20:37	50
Aroclor-1232	5000	U	5000	1600	ug/Kg	☼	08/23/16 10:01	08/25/16 20:37	50
Aroclor-1242	5000	U	5000	2000	ug/Kg	☼	08/23/16 10:01	08/25/16 20:37	50
Aroclor-1248	5000	U	5000	1700	ug/Kg	☼	08/23/16 10:01	08/25/16 20:37	50
Aroclor-1254	**34000**		5000	1400	ug/Kg	☼	08/23/16 10:01	08/25/16 20:37	50
Aroclor-1260	5000	U	5000	1800	ug/Kg	☼	08/23/16 10:01	08/25/16 20:37	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*48*		*14 - 128*	*08/23/16 10:01*	*08/25/16 20:37*	*50*
DCB Decachlorobiphenyl	*121*		*10 - 132*	*08/23/16 10:01*	*08/25/16 20:37*	*50*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68583-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-081916-SSH-6093
Date Collected: 08/19/16 11:20
Date Received: 08/20/16 08:40

Lab Sample ID: 240-68583-11
Matrix: Solid
Percent Solids: 99.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	100000	U	100000	48000	ug/Kg	☼	08/23/16 10:01	08/25/16 20:55	1000
Aroclor-1221	100000	U	100000	46000	ug/Kg	☼	08/23/16 10:01	08/25/16 20:55	1000
Aroclor-1232	100000	U	100000	32000	ug/Kg	☼	08/23/16 10:01	08/25/16 20:55	1000
Aroclor-1242	100000	U	100000	40000	ug/Kg	☼	08/23/16 10:01	08/25/16 20:55	1000
Aroclor-1248	100000	U	100000	34000	ug/Kg	☼	08/23/16 10:01	08/25/16 20:55	1000
Aroclor-1254	**1200000**		100000	28000	ug/Kg	☼	08/23/16 10:01	08/25/16 20:55	1000
Aroclor-1260	100000	U	100000	36000	ug/Kg	☼	08/23/16 10:01	08/25/16 20:55	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*155*	*X*	*14 - 128*	*08/23/16 10:01*	*08/25/16 20:55*	*1000*
DCB Decachlorobiphenyl	*1723*	*X*	*10 - 132*	*08/23/16 10:01*	*08/25/16 20:55*	*1000*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68583-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-081916-SSH-6091
Date Collected: 08/19/16 11:25
Date Received: 08/20/16 08:40

Lab Sample ID: 240-68583-12
Matrix: Solid
Percent Solids: 98.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	20000	U	20000	9800	ug/Kg	☼	08/23/16 10:01	08/25/16 21:12	200
Aroclor-1221	20000	U	20000	9400	ug/Kg	☼	08/23/16 10:01	08/25/16 21:12	200
Aroclor-1232	20000	U	20000	6500	ug/Kg	☼	08/23/16 10:01	08/25/16 21:12	200
Aroclor-1242	20000	U	20000	8200	ug/Kg	☼	08/23/16 10:01	08/25/16 21:12	200
Aroclor-1248	20000	U	20000	6900	ug/Kg	☼	08/23/16 10:01	08/25/16 21:12	200
Aroclor-1254	**330000**		20000	5700	ug/Kg	☼	08/23/16 10:01	08/25/16 21:12	200
Aroclor-1260	20000	U	20000	7300	ug/Kg	☼	08/23/16 10:01	08/25/16 21:12	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*107*		*14 - 128*	*08/23/16 10:01*	*08/25/16 21:12*	*200*
DCB Decachlorobiphenyl	*314*	*X*	*10 - 132*	*08/23/16 10:01*	*08/25/16 21:12*	*200*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68583-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-081916-SSH-6090
Date Collected: 08/19/16 11:35
Date Received: 08/20/16 08:40

Lab Sample ID: 240-68583-14
Matrix: Solid
Percent Solids: 97.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	510000	U	510000	250000	ug/Kg	☼	08/23/16 10:01	08/25/16 21:30	5000
Aroclor-1221	510000	U	510000	240000	ug/Kg	☼	08/23/16 10:01	08/25/16 21:30	5000
Aroclor-1232	510000	U	510000	160000	ug/Kg	☼	08/23/16 10:01	08/25/16 21:30	5000
Aroclor-1242	510000	U	510000	210000	ug/Kg	☼	08/23/16 10:01	08/25/16 21:30	5000
Aroclor-1248	510000	U	510000	170000	ug/Kg	☼	08/23/16 10:01	08/25/16 21:30	5000
Aroclor-1254	**5200000**		510000	140000	ug/Kg	☼	08/23/16 10:01	08/25/16 21:30	5000
Aroclor-1260	510000	U	510000	190000	ug/Kg	☼	08/23/16 10:01	08/25/16 21:30	5000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*601*	*X*	*14 - 128*	*08/23/16 10:01*	*08/25/16 21:30*	*5000*
DCB Decachlorobiphenyl	*7110*	*X*	*10 - 132*	*08/23/16 10:01*	*08/25/16 21:30*	*5000*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68583-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-081916-SSH-6097
Date Collected: 08/19/16 11:40
Date Received: 08/20/16 08:40

Lab Sample ID: 240-68583-15
Matrix: Solid
Percent Solids: 98.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2000	U	2000	960	ug/Kg	☼	08/23/16 10:01	08/25/16 21:48	20
Aroclor-1221	2000	U	2000	920	ug/Kg	☼	08/23/16 10:01	08/25/16 21:48	20
Aroclor-1232	2000	U	2000	640	ug/Kg	☼	08/23/16 10:01	08/25/16 21:48	20
Aroclor-1242	2000	U	2000	800	ug/Kg	☼	08/23/16 10:01	08/25/16 21:48	20
Aroclor-1248	2000	U	2000	680	ug/Kg	☼	08/23/16 10:01	08/25/16 21:48	20
Aroclor-1254	**16000**		2000	560	ug/Kg	☼	08/23/16 10:01	08/25/16 21:48	20
Aroclor-1260	2000	U	2000	720	ug/Kg	☼	08/23/16 10:01	08/25/16 21:48	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*70*		*14 - 128*	*08/23/16 10:01*	*08/25/16 21:48*	*20*
DCB Decachlorobiphenyl	*78*		*10 - 132*	*08/23/16 10:01*	*08/25/16 21:48*	*20*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68583-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-081916-SSH-6096
Date Collected: 08/19/16 11:50
Date Received: 08/20/16 08:40

Lab Sample ID: 240-68583-17
Matrix: Solid
Percent Solids: 96.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	1000	U	1000	490	ug/Kg	☼	08/23/16 10:01	08/25/16 22:06	10
Aroclor-1221	1000	U	1000	470	ug/Kg	☼	08/23/16 10:01	08/25/16 22:06	10
Aroclor-1232	1000	U	1000	330	ug/Kg	☼	08/23/16 10:01	08/25/16 22:06	10
Aroclor-1242	1000	U	1000	410	ug/Kg	☼	08/23/16 10:01	08/25/16 22:06	10
Aroclor-1248	1000	U	1000	350	ug/Kg	☼	08/23/16 10:01	08/25/16 22:06	10
Aroclor-1254	**12000**		1000	280	ug/Kg	☼	08/23/16 10:01	08/25/16 22:06	10
Aroclor-1260	1000	U	1000	370	ug/Kg	☼	08/23/16 10:01	08/25/16 22:06	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*14 - 128*	*08/23/16 10:01*	*08/25/16 22:06*	*10*
DCB Decachlorobiphenyl	*89*		*10 - 132*	*08/23/16 10:01*	*08/25/16 22:06*	*10*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68583-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-081916-SSH-6098
Date Collected: 08/19/16 11:55
Date Received: 08/20/16 08:40

Lab Sample ID: 240-68583-18
Matrix: Solid
Percent Solids: 98.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	5100	U	5100	2400	ug/Kg	☼	08/23/16 10:01	08/25/16 22:23	50
Aroclor-1221	5100	U	5100	2300	ug/Kg	☼	08/23/16 10:01	08/25/16 22:23	50
Aroclor-1232	5100	U	5100	1600	ug/Kg	☼	08/23/16 10:01	08/25/16 22:23	50
Aroclor-1242	5100	U	5100	2000	ug/Kg	☼	08/23/16 10:01	08/25/16 22:23	50
Aroclor-1248	5100	U	5100	1700	ug/Kg	☼	08/23/16 10:01	08/25/16 22:23	50
Aroclor-1254	**27000**		5100	1400	ug/Kg	☼	08/23/16 10:01	08/25/16 22:23	50
Aroclor-1260	5100	U	5100	1800	ug/Kg	☼	08/23/16 10:01	08/25/16 22:23	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*		*14 - 128*	*08/23/16 10:01*	*08/25/16 22:23*	*50*
DCB Decachlorobiphenyl	*117*		*10 - 132*	*08/23/16 10:01*	*08/25/16 22:23*	*50*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68583-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-081916-SSH-6094
Date Collected: 08/19/16 12:00
Date Received: 08/20/16 08:40

Lab Sample ID: 240-68583-19
Matrix: Solid
Percent Solids: 93.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	520	U	520	250	ug/Kg	☼	08/23/16 10:01	08/25/16 22:41	5
Aroclor-1221	520	U	520	240	ug/Kg	☼	08/23/16 10:01	08/25/16 22:41	5
Aroclor-1232	520	U	520	170	ug/Kg	☼	08/23/16 10:01	08/25/16 22:41	5
Aroclor-1242	520	U	520	210	ug/Kg	☼	08/23/16 10:01	08/25/16 22:41	5
Aroclor-1248	520	U	520	180	ug/Kg	☼	08/23/16 10:01	08/25/16 22:41	5
Aroclor-1254	**4200**		520	140	ug/Kg	☼	08/23/16 10:01	08/25/16 22:41	5
Aroclor-1260	520	U	520	190	ug/Kg	☼	08/23/16 10:01	08/25/16 22:41	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*14 - 128*	*08/23/16 10:01*	*08/25/16 22:41*	*5*
DCB Decachlorobiphenyl	*88*		*10 - 132*	*08/23/16 10:01*	*08/25/16 22:41*	*5*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68583-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-081916-SSH-6095
Date Collected: 08/19/16 12:05
Date Received: 08/20/16 08:40

Lab Sample ID: 240-68583-20
Matrix: Solid
Percent Solids: 98.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	490	U	490	240	ug/Kg	☼	08/23/16 10:01	08/25/16 22:59	5
Aroclor-1221	490	U	490	230	ug/Kg	☼	08/23/16 10:01	08/25/16 22:59	5
Aroclor-1232	490	U	490	160	ug/Kg	☼	08/23/16 10:01	08/25/16 22:59	5
Aroclor-1242	490	U	490	200	ug/Kg	☼	08/23/16 10:01	08/25/16 22:59	5
Aroclor-1248	490	U	490	170	ug/Kg	☼	08/23/16 10:01	08/25/16 22:59	5
Aroclor-1254	**5100**		490	140	ug/Kg	☼	08/23/16 10:01	08/25/16 22:59	5
Aroclor-1260	490	U	490	180	ug/Kg	☼	08/23/16 10:01	08/25/16 22:59	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*14 - 128*	*08/23/16 10:01*	*08/25/16 22:59*	*5*
DCB Decachlorobiphenyl	*71*		*10 - 132*	*08/23/16 10:01*	*08/25/16 22:59*	*5*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68583-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-081916-SSH-A1A
Date Collected: 08/19/16 12:25
Date Received: 08/20/16 08:40

Lab Sample ID: 240-68583-21
Matrix: Solid
Percent Solids: 97.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2000	U	2000	970	ug/Kg	☼	08/23/16 10:01	08/25/16 23:16	20
Aroclor-1221	2000	U	2000	930	ug/Kg	☼	08/23/16 10:01	08/25/16 23:16	20
Aroclor-1232	2000	U	2000	650	ug/Kg	☼	08/23/16 10:01	08/25/16 23:16	20
Aroclor-1242	2000	U	2000	810	ug/Kg	☼	08/23/16 10:01	08/25/16 23:16	20
Aroclor-1248	2000	U	2000	690	ug/Kg	☼	08/23/16 10:01	08/25/16 23:16	20
Aroclor-1254	**18000**		2000	570	ug/Kg	☼	08/23/16 10:01	08/25/16 23:16	20
Aroclor-1260	2000	U	2000	730	ug/Kg	☼	08/23/16 10:01	08/25/16 23:16	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*87*		*14 - 128*	*08/23/16 10:01*	*08/25/16 23:16*	*20*
DCB Decachlorobiphenyl	*103*		*10 - 132*	*08/23/16 10:01*	*08/25/16 23:16*	*20*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68583-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-081916-SSH-A1B
Date Collected: 08/19/16 12:30
Date Received: 08/20/16 08:40

Lab Sample ID: 240-68583-22
Matrix: Solid
Percent Solids: 97.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	510	U	510	240	ug/Kg	☼	08/23/16 10:01	08/25/16 23:34	5
Aroclor-1221	510	U	510	230	ug/Kg	☼	08/23/16 10:01	08/25/16 23:34	5
Aroclor-1232	510	U	510	160	ug/Kg	☼	08/23/16 10:01	08/25/16 23:34	5
Aroclor-1242	510	U	510	200	ug/Kg	☼	08/23/16 10:01	08/25/16 23:34	5
Aroclor-1248	510	U	510	170	ug/Kg	☼	08/23/16 10:01	08/25/16 23:34	5
Aroclor-1254	**3900**		510	140	ug/Kg	☼	08/23/16 10:01	08/25/16 23:34	5
Aroclor-1260	510	U	510	180	ug/Kg	☼	08/23/16 10:01	08/25/16 23:34	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*62*		*14 - 128*	*08/23/16 10:01*	*08/25/16 23:34*	*5*
DCB Decachlorobiphenyl	*68*		*10 - 132*	*08/23/16 10:01*	*08/25/16 23:34*	*5*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68583-1

General Chemistry

Client Sample ID: C-7878-081916-SSH-6089
Date Collected: 08/19/16 10:30
Date Received: 08/20/16 08:40

Lab Sample ID: 240-68583-1
Matrix: Solid
Percent Solids: 97.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97.5		0.1	0.1	%			08/22/16 16:06	1
Percent Moisture	2.5		0.1	0.1	%			08/22/16 16:06	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68583-1

General Chemistry

Client Sample ID: C-7878-081916-SSH-6104
Date Collected: 08/19/16 10:35
Date Received: 08/20/16 08:40

Lab Sample ID: 240-68583-2
Matrix: Solid
Percent Solids: 95.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	95.5		0.1	0.1	%			08/22/16 16:06	1
Percent Moisture	4.5		0.1	0.1	%			08/22/16 16:06	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68583-1

General Chemistry

Client Sample ID: C-7878-081916-SSH-6105
Date Collected: 08/19/16 10:40
Date Received: 08/20/16 08:40

Lab Sample ID: 240-68583-3
Matrix: Solid
Percent Solids: 97.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97.2		0.1	0.1	%			08/22/16 16:06	1
Percent Moisture	2.8		0.1	0.1	%			08/22/16 16:06	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68583-1

General Chemistry

Client Sample ID: C-7878-081916-SSH-6092
Date Collected: 08/19/16 11:00
Date Received: 08/20/16 08:40

Lab Sample ID: 240-68583-7
Matrix: Solid
Percent Solids: 99.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	99.3		0.1	0.1	%			08/22/16 16:06	1
Percent Moisture	0.7		0.1	0.1	%			08/22/16 16:06	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68583-1

General Chemistry

Client Sample ID: C-7878-081916-SSH-6093
Date Collected: 08/19/16 11:20
Date Received: 08/20/16 08:40

Lab Sample ID: 240-68583-11
Matrix: Solid
Percent Solids: 99.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	99.2		0.1	0.1	%			08/22/16 16:06	1
Percent Moisture	0.8		0.1	0.1	%			08/22/16 16:06	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68583-1

General Chemistry

Client Sample ID: C-7878-081916-SSH-6091
Date Collected: 08/19/16 11:25
Date Received: 08/20/16 08:40

Lab Sample ID: 240-68583-12
Matrix: Solid
Percent Solids: 98.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	98.1		0.1	0.1	%			08/22/16 16:06	1
Percent Moisture	1.9		0.1	0.1	%			08/22/16 16:06	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68583-1

General Chemistry

Client Sample ID: C-7878-081916-SSH-6090
Date Collected: 08/19/16 11:35
Date Received: 08/20/16 08:40

Lab Sample ID: 240-68583-14
Matrix: Solid
Percent Solids: 97.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97.2		0.1	0.1	%			08/22/16 16:06	1
Percent Moisture	2.8		0.1	0.1	%			08/22/16 16:06	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68583-1

General Chemistry

Client Sample ID: C-7878-081916-SSH-6097
Date Collected: 08/19/16 11:40
Date Received: 08/20/16 08:40

Lab Sample ID: 240-68583-15
Matrix: Solid
Percent Solids: 98.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	98.5		0.1	0.1	%			08/22/16 16:06	1
Percent Moisture	1.5		0.1	0.1	%			08/22/16 16:06	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68583-1

General Chemistry

Client Sample ID: C-7878-081916-SSH-6096
Date Collected: 08/19/16 11:50
Date Received: 08/20/16 08:40

Lab Sample ID: 240-68583-17
Matrix: Solid
Percent Solids: 96.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96.0		0.1	0.1	%			08/22/16 16:06	1
Percent Moisture	4.0		0.1	0.1	%			08/22/16 16:06	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68583-1

General Chemistry

Client Sample ID: C-7878-081916-SSH-6098
Date Collected: 08/19/16 11:55
Date Received: 08/20/16 08:40

Lab Sample ID: 240-68583-18
Matrix: Solid
Percent Solids: 98.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	98.0		0.1	0.1	%			08/22/16 16:06	1
Percent Moisture	2.0		0.1	0.1	%			08/22/16 16:06	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68583-1

General Chemistry

Client Sample ID: C-7878-081916-SSH-6094
Date Collected: 08/19/16 12:00
Date Received: 08/20/16 08:40

Lab Sample ID: 240-68583-19
Matrix: Solid
Percent Solids: 93.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	93.8		0.1	0.1	%			08/22/16 16:06	1
Percent Moisture	6.2		0.1	0.1	%			08/22/16 16:06	1

General Chemistry

Client Sample ID: C-7878-081916-SSH-6095
Date Collected: 08/19/16 12:05
Date Received: 08/20/16 08:40

Lab Sample ID: 240-68583-20
Matrix: Solid
Percent Solids: 98.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	98.0		0.1	0.1	%			08/22/16 16:06	1
Percent Moisture	2.0		0.1	0.1	%			08/22/16 16:06	1

General Chemistry

Client Sample ID: C-7878-081916-SSH-A1A
Date Collected: 08/19/16 12:25
Date Received: 08/20/16 08:40

Lab Sample ID: 240-68583-21
Matrix: Solid
Percent Solids: 97.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97.6		0.1	0.1	%			08/22/16 16:06	1
Percent Moisture	2.4		0.1	0.1	%			08/22/16 16:06	1

General Chemistry

Client Sample ID: C-7878-081916-SSH-A1B
Date Collected: 08/19/16 12:30
Date Received: 08/20/16 08:40

Lab Sample ID: 240-68583-22
Matrix: Solid
Percent Solids: 97.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97.2		0.1	0.1	%			08/22/16 16:06	1
Percent Moisture	2.8		0.1	0.1	%			08/22/16 16:06	1

GC Semi VOA

Prep Batch: 243822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-68583-1	C-7878-081916-SSH-6089	Total/NA	Solid	3540C	
240-68583-2	C-7878-081916-SSH-6104	Total/NA	Solid	3540C	
240-68583-3	C-7878-081916-SSH-6105	Total/NA	Solid	3540C	
240-68583-7	C-7878-081916-SSH-6092	Total/NA	Solid	3540C	
240-68583-11	C-7878-081916-SSH-6093	Total/NA	Solid	3540C	
240-68583-12	C-7878-081916-SSH-6091	Total/NA	Solid	3540C	
240-68583-14	C-7878-081916-SSH-6090	Total/NA	Solid	3540C	
240-68583-15	C-7878-081916-SSH-6097	Total/NA	Solid	3540C	
240-68583-17	C-7878-081916-SSH-6096	Total/NA	Solid	3540C	
240-68583-18	C-7878-081916-SSH-6098	Total/NA	Solid	3540C	
240-68583-19	C-7878-081916-SSH-6094	Total/NA	Solid	3540C	
240-68583-20	C-7878-081916-SSH-6095	Total/NA	Solid	3540C	
240-68583-21	C-7878-081916-SSH-A1A	Total/NA	Solid	3540C	
240-68583-22	C-7878-081916-SSH-A1B	Total/NA	Solid	3540C	
MB 240-243822/18-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-243822/19-A	Lab Control Sample	Total/NA	Solid	3540C	

Analysis Batch: 244296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-68583-1	C-7878-081916-SSH-6089	Total/NA	Solid	8082	243822
240-68583-2	C-7878-081916-SSH-6104	Total/NA	Solid	8082	243822
240-68583-3	C-7878-081916-SSH-6105	Total/NA	Solid	8082	243822
240-68583-7	C-7878-081916-SSH-6092	Total/NA	Solid	8082	243822
240-68583-11	C-7878-081916-SSH-6093	Total/NA	Solid	8082	243822
240-68583-12	C-7878-081916-SSH-6091	Total/NA	Solid	8082	243822
240-68583-14	C-7878-081916-SSH-6090	Total/NA	Solid	8082	243822
240-68583-15	C-7878-081916-SSH-6097	Total/NA	Solid	8082	243822
240-68583-17	C-7878-081916-SSH-6096	Total/NA	Solid	8082	243822
240-68583-18	C-7878-081916-SSH-6098	Total/NA	Solid	8082	243822
240-68583-19	C-7878-081916-SSH-6094	Total/NA	Solid	8082	243822
240-68583-20	C-7878-081916-SSH-6095	Total/NA	Solid	8082	243822
240-68583-21	C-7878-081916-SSH-A1A	Total/NA	Solid	8082	243822
240-68583-22	C-7878-081916-SSH-A1B	Total/NA	Solid	8082	243822
MB 240-243822/18-A	Method Blank	Total/NA	Solid	8082	243822
LCS 240-243822/19-A	Lab Control Sample	Total/NA	Solid	8082	243822

General Chemistry

Analysis Batch: 243695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-68583-1	C-7878-081916-SSH-6089	Total/NA	Solid	Moisture	
240-68583-2	C-7878-081916-SSH-6104	Total/NA	Solid	Moisture	
240-68583-3	C-7878-081916-SSH-6105	Total/NA	Solid	Moisture	
240-68583-7	C-7878-081916-SSH-6092	Total/NA	Solid	Moisture	
240-68583-11	C-7878-081916-SSH-6093	Total/NA	Solid	Moisture	
240-68583-12	C-7878-081916-SSH-6091	Total/NA	Solid	Moisture	
240-68583-14	C-7878-081916-SSH-6090	Total/NA	Solid	Moisture	
240-68583-15	C-7878-081916-SSH-6097	Total/NA	Solid	Moisture	
240-68583-17	C-7878-081916-SSH-6096	Total/NA	Solid	Moisture	
240-68583-18	C-7878-081916-SSH-6098	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 243695 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-68583-19	C-7878-081916-SSH-6094	Total/NA	Solid	Moisture	
240-68583-20	C-7878-081916-SSH-6095	Total/NA	Solid	Moisture	
240-68583-21	C-7878-081916-SSH-A1A	Total/NA	Solid	Moisture	
240-68583-22	C-7878-081916-SSH-A1B	Total/NA	Solid	Moisture	
240-68583-12 DU	C-7878-081916-SSH-6091	Total/NA	Solid	Moisture	

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-243822/18-A
Matrix: Solid
Analysis Batch: 244296

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 243822

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	100	U	100	48	ug/Kg		08/23/16 10:01	08/26/16 00:45	1
Aroclor-1221	100	U	100	46	ug/Kg		08/23/16 10:01	08/26/16 00:45	1
Aroclor-1232	100	U	100	32	ug/Kg		08/23/16 10:01	08/26/16 00:45	1
Aroclor-1242	100	U	100	40	ug/Kg		08/23/16 10:01	08/26/16 00:45	1
Aroclor-1248	100	U	100	34	ug/Kg		08/23/16 10:01	08/26/16 00:45	1
Aroclor-1254	100	U	100	28	ug/Kg		08/23/16 10:01	08/26/16 00:45	1
Aroclor-1260	100	U	100	36	ug/Kg		08/23/16 10:01	08/26/16 00:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*		*14 - 128*	*08/23/16 10:01*	*08/26/16 00:45*	*1*
DCB Decachlorobiphenyl	*56*		*10 - 132*	*08/23/16 10:01*	*08/26/16 00:45*	*1*

Lab Sample ID: LCS 240-243822/19-A
Matrix: Solid
Analysis Batch: 244296

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 243822

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor-1016			2000	1240		ug/Kg		62	47 - 120		
Aroclor-1260			2000	1270		ug/Kg		64	46 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*73*		*14 - 128*
DCB Decachlorobiphenyl	*65*		*10 - 132*

Method: Moisture - Percent Moisture

Lab Sample ID: 240-68583-12 DU
Matrix: Solid
Analysis Batch: 243695

Client Sample ID: C-7878-081916-SSH-6091
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Solids	98.1			98.3		%				0.2	20
Percent Moisture	1.9			1.7		%				11	20

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68583-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX2	DCB2
Lab Sample ID	Client Sample ID	(14-128)	(10-132)
240-68583-1	C-7878-081916-SSH-6089	66	70
240-68583-2	C-7878-081916-SSH-6104	62	67
240-68583-3	C-7878-081916-SSH-6105	72	75
240-68583-7	C-7878-081916-SSH-6092	48	121
240-68583-11	C-7878-081916-SSH-6093	155 X	1723 X
240-68583-12	C-7878-081916-SSH-6091	107	314 X
240-68583-14	C-7878-081916-SSH-6090	601 X	7110 X
240-68583-15	C-7878-081916-SSH-6097	70	78
240-68583-17	C-7878-081916-SSH-6096	79	89
240-68583-18	C-7878-081916-SSH-6098	68	117
240-68583-19	C-7878-081916-SSH-6094	79	88
240-68583-20	C-7878-081916-SSH-6095	75	71
240-68583-21	C-7878-081916-SSH-A1A	87	103
240-68583-22	C-7878-081916-SSH-A1B	62	68
LCS 240-243822/19-A	Lab Control Sample	73	65
MB 240-243822/18-A	Method Blank	68	56

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

Client Sample ID: C-7878-081916-SSH-6089 — **Lab Sample ID: 240-68583-1**
Date Collected: 08/19/16 10:30 — **Matrix: Solid**
Date Received: 08/20/16 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	243695	08/22/16 16:06	JW	TAL CAN

Client Sample ID: C-7878-081916-SSH-6089 — **Lab Sample ID: 240-68583-1**
Date Collected: 08/19/16 10:30 — **Matrix: Solid**
Date Received: 08/20/16 08:40 — **Percent Solids: 97.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			243822	08/23/16 10:01	DT	TAL CAN
Total/NA	Analysis	8082		5	244296	08/25/16 19:44	CSC	TAL CAN

Client Sample ID: C-7878-081916-SSH-6104 — **Lab Sample ID: 240-68583-2**
Date Collected: 08/19/16 10:35 — **Matrix: Solid**
Date Received: 08/20/16 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	243695	08/22/16 16:06	JW	TAL CAN

Client Sample ID: C-7878-081916-SSH-6104 — **Lab Sample ID: 240-68583-2**
Date Collected: 08/19/16 10:35 — **Matrix: Solid**
Date Received: 08/20/16 08:40 — **Percent Solids: 95.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			243822	08/23/16 10:01	DT	TAL CAN
Total/NA	Analysis	8082		5	244296	08/25/16 20:02	CSC	TAL CAN

Client Sample ID: C-7878-081916-SSH-6105 — **Lab Sample ID: 240-68583-3**
Date Collected: 08/19/16 10:40 — **Matrix: Solid**
Date Received: 08/20/16 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	243695	08/22/16 16:06	JW	TAL CAN

Client Sample ID: C-7878-081916-SSH-6105 — **Lab Sample ID: 240-68583-3**
Date Collected: 08/19/16 10:40 — **Matrix: Solid**
Date Received: 08/20/16 08:40 — **Percent Solids: 97.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			243822	08/23/16 10:01	DT	TAL CAN
Total/NA	Analysis	8082		5	244296	08/25/16 20:19	CSC	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68583-1

Client Sample ID: C-7878-081916-SSH-6092
Lab Sample ID: 240-68583-7
Date Collected: 08/19/16 11:00
Matrix: Solid
Date Received: 08/20/16 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	243695	08/22/16 16:06	JW	TAL CAN

Client Sample ID: C-7878-081916-SSH-6092
Lab Sample ID: 240-68583-7
Date Collected: 08/19/16 11:00
Matrix: Solid
Date Received: 08/20/16 08:40
Percent Solids: 99.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			243822	08/23/16 10:01	DT	TAL CAN
Total/NA	Analysis	8082		50	244296	08/25/16 20:37	CSC	TAL CAN

Client Sample ID: C-7878-081916-SSH-6093
Lab Sample ID: 240-68583-11
Date Collected: 08/19/16 11:20
Matrix: Solid
Date Received: 08/20/16 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	243695	08/22/16 16:06	JW	TAL CAN

Client Sample ID: C-7878-081916-SSH-6093
Lab Sample ID: 240-68583-11
Date Collected: 08/19/16 11:20
Matrix: Solid
Date Received: 08/20/16 08:40
Percent Solids: 99.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			243822	08/23/16 10:01	DT	TAL CAN
Total/NA	Analysis	8082		1000	244296	08/25/16 20:55	CSC	TAL CAN

Client Sample ID: C-7878-081916-SSH-6091
Lab Sample ID: 240-68583-12
Date Collected: 08/19/16 11:25
Matrix: Solid
Date Received: 08/20/16 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	243695	08/22/16 16:06	JW	TAL CAN

Client Sample ID: C-7878-081916-SSH-6091
Lab Sample ID: 240-68583-12
Date Collected: 08/19/16 11:25
Matrix: Solid
Date Received: 08/20/16 08:40
Percent Solids: 98.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			243822	08/23/16 10:01	DT	TAL CAN
Total/NA	Analysis	8082		200	244296	08/25/16 21:12	CSC	TAL CAN

Client Sample ID: C-7878-081916-SSH-6090 — **Lab Sample ID: 240-68583-14**
Date Collected: 08/19/16 11:35 — **Matrix: Solid**
Date Received: 08/20/16 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	243695	08/22/16 16:06	JW	TAL CAN

Client Sample ID: C-7878-081916-SSH-6090 — **Lab Sample ID: 240-68583-14**
Date Collected: 08/19/16 11:35 — **Matrix: Solid**
Date Received: 08/20/16 08:40 — **Percent Solids: 97.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			243822	08/23/16 10:01	DT	TAL CAN
Total/NA	Analysis	8082		5000	244296	08/25/16 21:30	CSC	TAL CAN

Client Sample ID: C-7878-081916-SSH-6097 — **Lab Sample ID: 240-68583-15**
Date Collected: 08/19/16 11:40 — **Matrix: Solid**
Date Received: 08/20/16 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	243695	08/22/16 16:06	JW	TAL CAN

Client Sample ID: C-7878-081916-SSH-6097 — **Lab Sample ID: 240-68583-15**
Date Collected: 08/19/16 11:40 — **Matrix: Solid**
Date Received: 08/20/16 08:40 — **Percent Solids: 98.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			243822	08/23/16 10:01	DT	TAL CAN
Total/NA	Analysis	8082		20	244296	08/25/16 21:48	CSC	TAL CAN

Client Sample ID: C-7878-081916-SSH-6096 — **Lab Sample ID: 240-68583-17**
Date Collected: 08/19/16 11:50 — **Matrix: Solid**
Date Received: 08/20/16 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	243695	08/22/16 16:06	JW	TAL CAN

Client Sample ID: C-7878-081916-SSH-6096 — **Lab Sample ID: 240-68583-17**
Date Collected: 08/19/16 11:50 — **Matrix: Solid**
Date Received: 08/20/16 08:40 — **Percent Solids: 96.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			243822	08/23/16 10:01	DT	TAL CAN
Total/NA	Analysis	8082		10	244296	08/25/16 22:06	CSC	TAL CAN

Client Sample ID: C-7878-081916-SSH-6098 — **Lab Sample ID: 240-68583-18**
Date Collected: 08/19/16 11:55 — **Matrix: Solid**
Date Received: 08/20/16 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	243695	08/22/16 16:06	JW	TAL CAN

Client Sample ID: C-7878-081916-SSH-6098 — **Lab Sample ID: 240-68583-18**
Date Collected: 08/19/16 11:55 — **Matrix: Solid**
Date Received: 08/20/16 08:40 — **Percent Solids: 98.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			243822	08/23/16 10:01	DT	TAL CAN
Total/NA	Analysis	8082		50	244296	08/25/16 22:23	CSC	TAL CAN

Client Sample ID: C-7878-081916-SSH-6094 — **Lab Sample ID: 240-68583-19**
Date Collected: 08/19/16 12:00 — **Matrix: Solid**
Date Received: 08/20/16 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	243695	08/22/16 16:06	JW	TAL CAN

Client Sample ID: C-7878-081916-SSH-6094 — **Lab Sample ID: 240-68583-19**
Date Collected: 08/19/16 12:00 — **Matrix: Solid**
Date Received: 08/20/16 08:40 — **Percent Solids: 93.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			243822	08/23/16 10:01	DT	TAL CAN
Total/NA	Analysis	8082		5	244296	08/25/16 22:41	CSC	TAL CAN

Client Sample ID: C-7878-081916-SSH-6095 — **Lab Sample ID: 240-68583-20**
Date Collected: 08/19/16 12:05 — **Matrix: Solid**
Date Received: 08/20/16 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	243695	08/22/16 16:06	JW	TAL CAN

Client Sample ID: C-7878-081916-SSH-6095 — **Lab Sample ID: 240-68583-20**
Date Collected: 08/19/16 12:05 — **Matrix: Solid**
Date Received: 08/20/16 08:40 — **Percent Solids: 98.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			243822	08/23/16 10:01	DT	TAL CAN
Total/NA	Analysis	8082		5	244296	08/25/16 22:59	CSC	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68583-1

Client Sample ID: C-7878-081916-SSH-A1A
Lab Sample ID: 240-68583-21
Date Collected: 08/19/16 12:25
Matrix: Solid
Date Received: 08/20/16 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	243695	08/22/16 16:06	JW	TAL CAN

Client Sample ID: C-7878-081916-SSH-A1A
Lab Sample ID: 240-68583-21
Date Collected: 08/19/16 12:25
Matrix: Solid
Date Received: 08/20/16 08:40
Percent Solids: 97.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			243822	08/23/16 10:01	DT	TAL CAN
Total/NA	Analysis	8082		20	244296	08/25/16 23:16	CSC	TAL CAN

Client Sample ID: C-7878-081916-SSH-A1B
Lab Sample ID: 240-68583-22
Date Collected: 08/19/16 12:30
Matrix: Solid
Date Received: 08/20/16 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	243695	08/22/16 16:06	JW	TAL CAN

Client Sample ID: C-7878-081916-SSH-A1B
Lab Sample ID: 240-68583-22
Date Collected: 08/19/16 12:30
Matrix: Solid
Date Received: 08/20/16 08:40
Percent Solids: 97.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			243822	08/23/16 10:01	DT	TAL CAN
Total/NA	Analysis	8082		5	244296	08/25/16 23:34	CSC	TAL CAN

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

Certification Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68583-1

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 (WW)	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	08-31-16 *
USDA	Federal		P330-13-00319	11-26-16 *
Virginia	NELAP	3	460175	09-14-16 *
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 Michigan
10448 Citation Drive
Suite 200
Brighton, MI 48116
Phone: 810.229.2763 Fax:

4.6/5.6

Chain of Custody Record

149058

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: M. Tomka	Site Contact: JF Parlys	Date: 8/19/16	COC No: 149058
Company Name: GHD	Tel/Fax: 519 884 0510	Lab Contact: D. Heckler	Carrier: FedEx	1 of 3 COCs
Address: 1449b N. Sheldon Rd Steve	Analysis Turnaround Time			Sampler: S. Hoesemeyer
City/State/Zip: Plymouth MI 48170	☒ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 734 453 5123	TAT if different from Below 5 days			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: RacerTrust SMI	☐ 1 week			
Site: SSOW 7878 - To1 - 012	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs	Sample Specific Notes:
C-7878-081916-SSH-6089	8/19/16	1030	G	C	1	N	N	X	
-6104		1035	G	C	1	N	N	X	
-6105		1040	G	C	1	N	N	X	
-6106		1045	G	C	1	N	N	X	hold
-6108		1050	G	C	1	N	N	X	hold
-6107		1055	G	C	1	N	N	X	hold
-6092		1100	G	C	1	N	N	X	
-6100		1105	G	C	1	N	N	X	hold
-6099		1110	G	C	1	N	N	X	hold
-6101		1115	G	C	1	N	N	X	hold
-6093		1120	G	C	1	N	N	X	
C-7878-081916-SSH-6091		1125	G	C	1	N	N	X	

240-68583 Chain of Custody

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.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.: 188425		Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:
Relinquished by:	Company: GHD	Date/Time: 8/19/16 1500	Received by:	Company: TA	Date/Time: 8-22-16 840
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

8/26/2016

TestAmerica Michigan
10448 Citation Drive
Suite 200
Brighton, MI 48116
Phone: 810.229.2763 Fax:

4.6/5.6

Chain of Custody Record

149059

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: M. Tomka	Site Contact: JE Pardys	Date: 8/19/16	COC No: 149055
Company Name: GHD	Tel/Fax: 519 884 0510	Lab Contact: D Hecker	Carrier: FedEx	2 of 3 COCs
Address:	Analysis Turnaround Time			Sampler: S. Howenstine
City/State/Zip:	☒ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone:	TAT if different from Below 5 days			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Raw Trust SMI	☐ 1 week			
Site: SSOW 7878-T01-012	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs	Sample Specific Notes:
C-7878-080916-SSH-6103	8/19/16	1130	G	L	1	N	N	X	hold
-6090		1135	G	L	1	N	N	X	
-6097		1140	G	L	1	N	N	X	
-6102		1145	G	L	1	N	N	X	hold
-6096		1150	G	L	1	N	N	X	
-6098		1155	G	L	1	N	N	X	
-6094		1200	G	L	1	N	N	X	
-6095		1205	G	L	1	N	N	X	
-A1A		1225	G	L	1	N	N	X	
-A1B		1230	G	L	1	N	N	X	
-A1C		1235	G	L	1	N	N	X	Hold
C-7878-080916-SSH-A1D		1240	G	L	1	N	N	X	Hold

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1

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.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: 788925 | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ | Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	GHD	8/19/16 1500	[signature]	TA	8-22-16 840
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

TestAmerica Michigan
10448 Citation Drive
Suite 200
Brighton, MI 48116
Phone: 810.229.2763 Fax:

4.6/5.6

Chain of Custody Record

149056

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: M. Tomka	Site Contact: JE Pardys	Date: 8/19/16	COC No: 149056
Company Name: GHD	Tel/Fax: 519 884 0510	Lab Contact: D. Hechler	Carrier: FedEx	3 of 3 COCs
Address:	Analysis Turnaround Time			Sampler: S. Howcroft
City/State/Zip:	☒ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone:	TAT if different from Below 5 days			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: RawTrust SMI	☐ 1 week			
Site: SSOW 7878-TP1-012	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs	Sample Specific Notes:
C-7878-081916-SSH-A1E	8/19/16	1250	G	C	1	N	N	X	hold
C-7878-081916-SSH-A1F	8/19/16	1255	G	C	1	N	N	X	hold

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.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: 788425 | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	GHD	8/19/16 1500	[signature]	TA	8-22-16 840
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

8/26/2016

TestAmerica Canton Sample Receipt Form/Narrative **Login # : 68583**

Canton Facility

Client GHD Site Name _____ Cooler unpacked by:

Cooler Received on 8-22-16 Opened on 8-22-16

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # _____ Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

☐ See Multiple Cooler Form

1. Cooler temperature upon receipt
   IR GUN# IR-8 (CF +1.3 °C) Observed Cooler Temp._____ °C Corrected Cooler Temp._____ °C
   IR GUN #36 (CF +1.0°C) Observed Cooler Temp. 4.6 °C Corrected Cooler Temp. 5.6 °C
2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1 (Yes) No
   -Were custody seals on the outside of the cooler(s) signed & dated? (Yes) No NA
   -Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes (No)
3. Shippers' packing slip attached to the cooler(s)? (Yes) No
4. Did custody papers accompany the sample(s)? (Yes) No
5. Were the custody papers relinquished & signed in the appropriate place? (Yes) No
6. Was/were the person(s) who collected the samples clearly identified on the COC? (Yes) No
7. Did all bottles arrive in good condition (Unbroken)? (Yes) No
8. Could all bottle labels be reconciled with the COC? (Yes) No
9. Were correct bottle(s) used for the test(s) indicated? (Yes) No
10. Sufficient quantity received to perform indicated analyses? Yes (No)
11. Are these work share samples?
    If yes, Questions 11-15 have been checked at the originating laboratory.
11. Were sample(s) at the correct pH upon receipt? Yes No (NA) pH Strip Lot# **HC574756**
12. Were VOAs on the COC? (Yes) No
13. Were air bubbles >6 mm in any VOA vials? Yes (No) NA
14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #_____ Yes (No)
15. Was a LL Hg or Me Hg trip blank present? _____ Yes (No)

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by:

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

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: 240-68583-3
Client Project/Site: 7878, RACER SMI

For:
GHD Services Inc.
14496 Sheldon Road, Suite 200
Plymouth, Michigan 48170

Attn: Rawa Fleisher

Denise D Heckler

Authorized for release by:
9/1/2016 9:11:10 AM

Denise Heckler, Project Manager II
(330)966-9477
denise.heckler@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: 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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Job ID: 240-68583-3

Laboratory: TestAmerica Canton

Narrative

Job Narrative
240-68583-3

Comments
Select samples were taken off hold for PCB analysis on August 26, 2016.

Receipt
The samples were received on 8/20/2016 8:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.6º C.

GC Semi VOA
Method(s) 8082: Batch 244939 is reported without a matrix spike/matrix spike duplicate (MS/MSD). The batch MS/MSD was originally performed on another client's sample, and this test was canceled at client request. This MS/MSD result does not have immediate bearing on any samples except for the actual sample spiked. The associated laboratory control sample (LCS) met acceptance criteria and provides long-term precision and accuracy for this batch.

Method(s) 8082: The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: C-7878-081916-SSH-6103 (240-68583-13), C-7878-081916-SSH-A1E (240-68583-25) and C-7878-081916-SSH-A1F (240-68583-26). 2672824, 2103100, 2283703.

Method(s) 8082: The following samples appear 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: C-7878-081916-SSH-6107 (240-68583-6), C-7878-081916-SSH-6100 (240-68583-8), C-7878-081916-SSH-6099 (240-68583-9), C-7878-081916-SSH-6101 (240-68583-10), C-7878-081916-SSH-6103 (240-68583-13), C-7878-081916-SSH-6102 (240-68583-16), C-7878-081916-SSH-A1E (240-68583-25) and C-7878-081916-SSH-A1F (240-68583-26). Due to the poor match with the Aroclor standards, 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.

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

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

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
X	Surrogate is outside control limits
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
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)

Sample Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68583-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-68583-6	C-7878-081916-SSH-6107	Solid	08/19/16 10:55	08/20/16 08:40
240-68583-8	C-7878-081916-SSH-6100	Solid	08/19/16 11:05	08/20/16 08:40
240-68583-9	C-7878-081916-SSH-6099	Solid	08/19/16 11:10	08/20/16 08:40
240-68583-10	C-7878-081916-SSH-6101	Solid	08/19/16 11:15	08/20/16 08:40
240-68583-13	C-7878-081916-SSH-6103	Solid	08/19/16 11:30	08/20/16 08:40
240-68583-16	C-7878-081916-SSH-6102	Solid	08/19/16 11:45	08/20/16 08:40
240-68583-25	C-7878-081916-SSH-A1E	Solid	08/19/16 12:50	08/20/16 08:40
240-68583-26	C-7878-081916-SSH-A1F	Solid	08/19/16 12:55	08/20/16 08:40

Detection Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68583-3

Client Sample ID: C-7878-081916-SSH-6107 — Lab Sample ID: 240-68583-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	8200		1000	290	ug/Kg	10	☼	8082	Total/NA

Client Sample ID: C-7878-081916-SSH-6100 — Lab Sample ID: 240-68583-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	970	J	990	400	ug/Kg	10	☼	8082	Total/NA
Aroclor-1254	13000		990	280	ug/Kg	10	☼	8082	Total/NA

Client Sample ID: C-7878-081916-SSH-6099 — Lab Sample ID: 240-68583-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	1900		520	140	ug/Kg	5	☼	8082	Total/NA

Client Sample ID: C-7878-081916-SSH-6101 — Lab Sample ID: 240-68583-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	65000		4900	1400	ug/Kg	50	☼	8082	Total/NA

Client Sample ID: C-7878-081916-SSH-6103 — Lab Sample ID: 240-68583-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	2100		100	28	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: C-7878-081916-SSH-6102 — Lab Sample ID: 240-68583-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	12000		980	280	ug/Kg	10	☼	8082	Total/NA

Client Sample ID: C-7878-081916-SSH-A1E — Lab Sample ID: 240-68583-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	860		100	28	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: C-7878-081916-SSH-A1F — Lab Sample ID: 240-68583-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	2400		490	140	ug/Kg	5	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68583-3

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
Moisture	Percent Moisture	EPA	TAL CAN

Protocol References:

EPA = US Environmental Protection Agency

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

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68583-3

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-081916-SSH-6107
Date Collected: 08/19/16 10:55
Date Received: 08/20/16 08:40

Lab Sample ID: 240-68583-6
Matrix: Solid
Percent Solids: 97.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	1000	U	1000	490	ug/Kg	☼	08/29/16 10:49	08/31/16 09:00	10
Aroclor-1221	1000	U	1000	470	ug/Kg	☼	08/29/16 10:49	08/31/16 09:00	10
Aroclor-1232	1000	U	1000	330	ug/Kg	☼	08/29/16 10:49	08/31/16 09:00	10
Aroclor-1242	1000	U	1000	410	ug/Kg	☼	08/29/16 10:49	08/31/16 09:00	10
Aroclor-1248	1000	U	1000	350	ug/Kg	☼	08/29/16 10:49	08/31/16 09:00	10
Aroclor-1254	**8200**		1000	290	ug/Kg	☼	08/29/16 10:49	08/31/16 09:00	10
Aroclor-1260	1000	U	1000	370	ug/Kg	☼	08/29/16 10:49	08/31/16 09:00	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*100*		*14 - 128*	*08/29/16 10:49*	*08/31/16 09:00*	*10*
DCB Decachlorobiphenyl	*85*		*10 - 132*	*08/29/16 10:49*	*08/31/16 09:00*	*10*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68583-3

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-081916-SSH-6100
Date Collected: 08/19/16 11:05
Date Received: 08/20/16 08:40

Lab Sample ID: 240-68583-8
Matrix: Solid
Percent Solids: 99.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	990	U	990	480	ug/Kg	☼	08/29/16 10:49	08/31/16 09:19	10
Aroclor-1221	990	U	990	460	ug/Kg	☼	08/29/16 10:49	08/31/16 09:19	10
Aroclor-1232	990	U	990	320	ug/Kg	☼	08/29/16 10:49	08/31/16 09:19	10
Aroclor-1242	**970**	**J**	990	400	ug/Kg	☼	08/29/16 10:49	08/31/16 09:19	10
Aroclor-1248	990	U	990	340	ug/Kg	☼	08/29/16 10:49	08/31/16 09:19	10
Aroclor-1254	**13000**		990	280	ug/Kg	☼	08/29/16 10:49	08/31/16 09:19	10
Aroclor-1260	990	U	990	360	ug/Kg	☼	08/29/16 10:49	08/31/16 09:19	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*103*		*14 - 128*	*08/29/16 10:49*	*08/31/16 09:19*	*10*
DCB Decachlorobiphenyl	*84*		*10 - 132*	*08/29/16 10:49*	*08/31/16 09:19*	*10*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68583-3

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-081916-SSH-6099
Date Collected: 08/19/16 11:10
Date Received: 08/20/16 08:40

Lab Sample ID: 240-68583-9
Matrix: Solid
Percent Solids: 96.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	520	U	520	250	ug/Kg	☼	08/29/16 11:46	08/31/16 14:11	5
Aroclor-1221	520	U	520	240	ug/Kg	☼	08/29/16 11:46	08/31/16 14:11	5
Aroclor-1232	520	U	520	170	ug/Kg	☼	08/29/16 11:46	08/31/16 14:11	5
Aroclor-1242	520	U	520	210	ug/Kg	☼	08/29/16 11:46	08/31/16 14:11	5
Aroclor-1248	520	U	520	180	ug/Kg	☼	08/29/16 11:46	08/31/16 14:11	5
Aroclor-1254	**1900**		520	140	ug/Kg	☼	08/29/16 11:46	08/31/16 14:11	5
Aroclor-1260	520	U	520	190	ug/Kg	☼	08/29/16 11:46	08/31/16 14:11	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*73*		*14 - 128*	*08/29/16 11:46*	*08/31/16 14:11*	*5*
DCB Decachlorobiphenyl	*158*	*X*	*10 - 132*	*08/29/16 11:46*	*08/31/16 14:11*	*5*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68583-3

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-081916-SSH-6101
Date Collected: 08/19/16 11:15
Date Received: 08/20/16 08:40

Lab Sample ID: 240-68583-10
Matrix: Solid
Percent Solids: 99.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	4900	U	4900	2400	ug/Kg	☼	08/29/16 10:49	08/31/16 09:37	50
Aroclor-1221	4900	U	4900	2300	ug/Kg	☼	08/29/16 10:49	08/31/16 09:37	50
Aroclor-1232	4900	U	4900	1600	ug/Kg	☼	08/29/16 10:49	08/31/16 09:37	50
Aroclor-1242	4900	U	4900	2000	ug/Kg	☼	08/29/16 10:49	08/31/16 09:37	50
Aroclor-1248	4900	U	4900	1700	ug/Kg	☼	08/29/16 10:49	08/31/16 09:37	50
Aroclor-1254	**65000**		4900	1400	ug/Kg	☼	08/29/16 10:49	08/31/16 09:37	50
Aroclor-1260	4900	U	4900	1800	ug/Kg	☼	08/29/16 10:49	08/31/16 09:37	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*138*	*X*	*14 - 128*	*08/29/16 10:49*	*08/31/16 09:37*	*50*
DCB Decachlorobiphenyl	*128*		*10 - 132*	*08/29/16 10:49*	*08/31/16 09:37*	*50*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68583-3

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-081916-SSH-6103
Date Collected: 08/19/16 11:30
Date Received: 08/20/16 08:40

Lab Sample ID: 240-68583-13
Matrix: Solid
Percent Solids: 98.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	100	U	100	48	ug/Kg	☼	08/29/16 10:49	08/31/16 09:55	1
Aroclor-1221	100	U	100	46	ug/Kg	☼	08/29/16 10:49	08/31/16 09:55	1
Aroclor-1232	100	U	100	32	ug/Kg	☼	08/29/16 10:49	08/31/16 09:55	1
Aroclor-1242	100	U	100	40	ug/Kg	☼	08/29/16 10:49	08/31/16 09:55	1
Aroclor-1248	100	U	100	34	ug/Kg	☼	08/29/16 10:49	08/31/16 09:55	1
Aroclor-1254	**2100**		100	28	ug/Kg	☼	08/29/16 10:49	08/31/16 09:55	1
Aroclor-1260	100	U	100	36	ug/Kg	☼	08/29/16 10:49	08/31/16 09:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*14 - 128*	*08/29/16 10:49*	*08/31/16 09:55*	*1*
DCB Decachlorobiphenyl	*71*		*10 - 132*	*08/29/16 10:49*	*08/31/16 09:55*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68583-3

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-081916-SSH-6102
Date Collected: 08/19/16 11:45
Date Received: 08/20/16 08:40

Lab Sample ID: 240-68583-16
Matrix: Solid
Percent Solids: 99.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	980	U	980	470	ug/Kg	☼	08/29/16 10:49	08/31/16 10:13	10
Aroclor-1221	980	U	980	450	ug/Kg	☼	08/29/16 10:49	08/31/16 10:13	10
Aroclor-1232	980	U	980	310	ug/Kg	☼	08/29/16 10:49	08/31/16 10:13	10
Aroclor-1242	980	U	980	390	ug/Kg	☼	08/29/16 10:49	08/31/16 10:13	10
Aroclor-1248	980	U	980	330	ug/Kg	☼	08/29/16 10:49	08/31/16 10:13	10
Aroclor-1254	**12000**		980	280	ug/Kg	☼	08/29/16 10:49	08/31/16 10:13	10
Aroclor-1260	980	U	980	350	ug/Kg	☼	08/29/16 10:49	08/31/16 10:13	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*84*		*14 - 128*	*08/29/16 10:49*	*08/31/16 10:13*	*10*
DCB Decachlorobiphenyl	*139*	*X*	*10 - 132*	*08/29/16 10:49*	*08/31/16 10:13*	*10*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68583-3

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-081916-SSH-A1E
Date Collected: 08/19/16 12:50
Date Received: 08/20/16 08:40

Lab Sample ID: 240-68583-25
Matrix: Solid
Percent Solids: 95.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	100	U	100	48	ug/Kg	☼	08/29/16 10:49	08/31/16 10:32	1
Aroclor-1221	100	U	100	46	ug/Kg	☼	08/29/16 10:49	08/31/16 10:32	1
Aroclor-1232	100	U	100	32	ug/Kg	☼	08/29/16 10:49	08/31/16 10:32	1
Aroclor-1242	100	U	100	40	ug/Kg	☼	08/29/16 10:49	08/31/16 10:32	1
Aroclor-1248	100	U	100	34	ug/Kg	☼	08/29/16 10:49	08/31/16 10:32	1
Aroclor-1254	**860**		100	28	ug/Kg	☼	08/29/16 10:49	08/31/16 10:32	1
Aroclor-1260	100	U	100	36	ug/Kg	☼	08/29/16 10:49	08/31/16 10:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*55*		*14 - 128*	*08/29/16 10:49*	*08/31/16 10:32*	*1*
DCB Decachlorobiphenyl	*43*		*10 - 132*	*08/29/16 10:49*	*08/31/16 10:32*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68583-3

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-081916-SSH-A1F
Date Collected: 08/19/16 12:55
Date Received: 08/20/16 08:40

Lab Sample ID: 240-68583-26
Matrix: Solid
Percent Solids: 99.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	490	U	490	240	ug/Kg	☼	08/29/16 10:49	08/31/16 10:50	5
Aroclor-1221	490	U	490	230	ug/Kg	☼	08/29/16 10:49	08/31/16 10:50	5
Aroclor-1232	490	U	490	160	ug/Kg	☼	08/29/16 10:49	08/31/16 10:50	5
Aroclor-1242	490	U	490	200	ug/Kg	☼	08/29/16 10:49	08/31/16 10:50	5
Aroclor-1248	490	U	490	170	ug/Kg	☼	08/29/16 10:49	08/31/16 10:50	5
Aroclor-1254	**2400**		490	140	ug/Kg	☼	08/29/16 10:49	08/31/16 10:50	5
Aroclor-1260	490	U	490	180	ug/Kg	☼	08/29/16 10:49	08/31/16 10:50	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*65*		*14 - 128*	*08/29/16 10:49*	*08/31/16 10:50*	*5*
DCB Decachlorobiphenyl	*89*		*10 - 132*	*08/29/16 10:49*	*08/31/16 10:50*	*5*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68583-3

General Chemistry

Client Sample ID: C-7878-081916-SSH-6107
Date Collected: 08/19/16 10:55
Date Received: 08/20/16 08:40

Lab Sample ID: 240-68583-6
Matrix: Solid
Percent Solids: 97.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97.8		0.1	0.1	%			08/23/16 14:30	1
Percent Moisture	2.2		0.1	0.1	%			08/23/16 14:30	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68583-3

General Chemistry

Client Sample ID: C-7878-081916-SSH-6100
Date Collected: 08/19/16 11:05
Date Received: 08/20/16 08:40

Lab Sample ID: 240-68583-8
Matrix: Solid
Percent Solids: 99.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	99.3		0.1	0.1	%			08/23/16 14:30	1
Percent Moisture	0.7		0.1	0.1	%			08/23/16 14:30	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68583-3

General Chemistry

Client Sample ID: C-7878-081916-SSH-6099
Date Collected: 08/19/16 11:10
Date Received: 08/20/16 08:40

Lab Sample ID: 240-68583-9
Matrix: Solid
Percent Solids: 96.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96.6		0.1	0.1	%			08/23/16 14:30	1
Percent Moisture	3.4		0.1	0.1	%			08/23/16 14:30	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68583-3

General Chemistry

Client Sample ID: C-7878-081916-SSH-6101
Date Collected: 08/19/16 11:15
Date Received: 08/20/16 08:40

Lab Sample ID: 240-68583-10
Matrix: Solid
Percent Solids: 99.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	99.1		0.1	0.1	%			08/23/16 14:30	1
Percent Moisture	0.9		0.1	0.1	%			08/23/16 14:30	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68583-3

General Chemistry

Client Sample ID: C-7878-081916-SSH-6103
Date Collected: 08/19/16 11:30
Date Received: 08/20/16 08:40

Lab Sample ID: 240-68583-13
Matrix: Solid
Percent Solids: 98.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	98.4		0.1	0.1	%			08/23/16 14:30	1
Percent Moisture	1.6		0.1	0.1	%			08/23/16 14:30	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68583-3

General Chemistry

Client Sample ID: C-7878-081916-SSH-6102
Date Collected: 08/19/16 11:45
Date Received: 08/20/16 08:40

Lab Sample ID: 240-68583-16
Matrix: Solid
Percent Solids: 99.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	99.6		0.1	0.1	%			08/23/16 14:30	1
Percent Moisture	0.4		0.1	0.1	%			08/23/16 14:30	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68583-3

General Chemistry

Client Sample ID: C-7878-081916-SSH-A1E
Date Collected: 08/19/16 12:50
Date Received: 08/20/16 08:40

Lab Sample ID: 240-68583-25
Matrix: Solid
Percent Solids: 95.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	95.9		0.1	0.1	%			08/23/16 14:30	1
Percent Moisture	4.1		0.1	0.1	%			08/23/16 14:30	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68583-3

General Chemistry

Client Sample ID: C-7878-081916-SSH-A1F
Date Collected: 08/19/16 12:55
Date Received: 08/20/16 08:40

Lab Sample ID: 240-68583-26
Matrix: Solid
Percent Solids: 99.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	99.0		0.1	0.1	%			08/23/16 14:30	1
Percent Moisture	1		0.1	0.1	%			08/23/16 14:30	1

QC Association Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68583-3

GC Semi VOA

Prep Batch: 244664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-68583-6	C-7878-081916-SSH-6107	Total/NA	Solid	3540C	
240-68583-8	C-7878-081916-SSH-6100	Total/NA	Solid	3540C	
240-68583-9	C-7878-081916-SSH-6099	Total/NA	Solid	3540C	
240-68583-10	C-7878-081916-SSH-6101	Total/NA	Solid	3540C	
240-68583-13	C-7878-081916-SSH-6103	Total/NA	Solid	3540C	
240-68583-16	C-7878-081916-SSH-6102	Total/NA	Solid	3540C	
240-68583-25	C-7878-081916-SSH-A1E	Total/NA	Solid	3540C	
240-68583-26	C-7878-081916-SSH-A1F	Total/NA	Solid	3540C	
MB 240-244664/13-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-244664/14-A	Lab Control Sample	Total/NA	Solid	3540C	

Analysis Batch: 244939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-68583-6	C-7878-081916-SSH-6107	Total/NA	Solid	8082	244664
240-68583-8	C-7878-081916-SSH-6100	Total/NA	Solid	8082	244664
240-68583-9	C-7878-081916-SSH-6099	Total/NA	Solid	8082	244664
240-68583-10	C-7878-081916-SSH-6101	Total/NA	Solid	8082	244664
240-68583-13	C-7878-081916-SSH-6103	Total/NA	Solid	8082	244664
240-68583-16	C-7878-081916-SSH-6102	Total/NA	Solid	8082	244664
240-68583-25	C-7878-081916-SSH-A1E	Total/NA	Solid	8082	244664
240-68583-26	C-7878-081916-SSH-A1F	Total/NA	Solid	8082	244664
MB 240-244664/13-A	Method Blank	Total/NA	Solid	8082	244664
LCS 240-244664/14-A	Lab Control Sample	Total/NA	Solid	8082	244664

General Chemistry

Analysis Batch: 243923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-68583-6	C-7878-081916-SSH-6107	Total/NA	Solid	Moisture	
240-68583-8	C-7878-081916-SSH-6100	Total/NA	Solid	Moisture	
240-68583-9	C-7878-081916-SSH-6099	Total/NA	Solid	Moisture	
240-68583-10	C-7878-081916-SSH-6101	Total/NA	Solid	Moisture	
240-68583-13	C-7878-081916-SSH-6103	Total/NA	Solid	Moisture	
240-68583-16	C-7878-081916-SSH-6102	Total/NA	Solid	Moisture	
240-68583-25	C-7878-081916-SSH-A1E	Total/NA	Solid	Moisture	
240-68583-26	C-7878-081916-SSH-A1F	Total/NA	Solid	Moisture	
240-68583-6 DU	C-7878-081916-SSH-6107	Total/NA	Solid	Moisture	
240-68583-26 DU	C-7878-081916-SSH-A1F	Total/NA	Solid	Moisture	

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-244664/13-A
Matrix: Solid
Analysis Batch: 244939

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 244664

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	100	U	100	48	ug/Kg		08/29/16 10:49	08/31/16 12:58	1
Aroclor-1221	100	U	100	46	ug/Kg		08/29/16 10:49	08/31/16 12:58	1
Aroclor-1232	100	U	100	32	ug/Kg		08/29/16 10:49	08/31/16 12:58	1
Aroclor-1242	100	U	100	40	ug/Kg		08/29/16 10:49	08/31/16 12:58	1
Aroclor-1248	100	U	100	34	ug/Kg		08/29/16 10:49	08/31/16 12:58	1
Aroclor-1254	100	U	100	28	ug/Kg		08/29/16 10:49	08/31/16 12:58	1
Aroclor-1260	100	U	100	36	ug/Kg		08/29/16 10:49	08/31/16 12:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*77*		*14 - 128*	*08/29/16 10:49*	*08/31/16 12:58*	*1*
DCB Decachlorobiphenyl	*78*		*10 - 132*	*08/29/16 10:49*	*08/31/16 12:58*	*1*

Lab Sample ID: LCS 240-244664/14-A
Matrix: Solid
Analysis Batch: 244939

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 244664

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor-1016			2000	1690		ug/Kg		84	47 - 120		
Aroclor-1260			2000	1500		ug/Kg		75	46 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*88*		*14 - 128*
DCB Decachlorobiphenyl	*99*		*10 - 132*

Method: Moisture - Percent Moisture

Lab Sample ID: 240-68583-6 DU
Matrix: Solid
Analysis Batch: 243923

Client Sample ID: C-7878-081916-SSH-6107
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Solids	97.8			97.8		%				0	20
Percent Moisture	2.2			2.2		%				1	20

Lab Sample ID: 240-68583-26 DU
Matrix: Solid
Analysis Batch: 243923

Client Sample ID: C-7878-081916-SSH-A1F
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Solids	99.0			98.8		%				0.2	20
Percent Moisture	1			1.2		%				16	20

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68583-3

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		TCX1	DCB1								
Lab Sample ID	Client Sample ID	(14-128)	(10-132)								
240-68583-6	C-7878-081916-SSH-6107	100	85								
240-68583-8	C-7878-081916-SSH-6100	103	84								
240-68583-9	C-7878-081916-SSH-6099	73	158 X								
240-68583-10	C-7878-081916-SSH-6101	138 X	128								
240-68583-13	C-7878-081916-SSH-6103	80	71								
240-68583-16	C-7878-081916-SSH-6102	84	139 X								
240-68583-25	C-7878-081916-SSH-A1E	55	43								
240-68583-26	C-7878-081916-SSH-A1F	65	89								
LCS 240-244664/14-A	Lab Control Sample	88	99								
MB 240-244664/13-A	Method Blank	77	78								

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68583-3

Client Sample ID: C-7878-081916-SSH-6107
Lab Sample ID: 240-68583-6
Date Collected: 08/19/16 10:55
Matrix: Solid
Date Received: 08/20/16 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	243923	08/23/16 14:30	LCN	TAL CAN

Client Sample ID: C-7878-081916-SSH-6107
Lab Sample ID: 240-68583-6
Date Collected: 08/19/16 10:55
Matrix: Solid
Date Received: 08/20/16 08:40
Percent Solids: 97.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			244664	08/29/16 10:49	DT	TAL CAN
Total/NA	Analysis	8082		10	244939	08/31/16 09:00	KMG	TAL CAN

Client Sample ID: C-7878-081916-SSH-6100
Lab Sample ID: 240-68583-8
Date Collected: 08/19/16 11:05
Matrix: Solid
Date Received: 08/20/16 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	243923	08/23/16 14:30	LCN	TAL CAN

Client Sample ID: C-7878-081916-SSH-6100
Lab Sample ID: 240-68583-8
Date Collected: 08/19/16 11:05
Matrix: Solid
Date Received: 08/20/16 08:40
Percent Solids: 99.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			244664	08/29/16 10:49	DT	TAL CAN
Total/NA	Analysis	8082		10	244939	08/31/16 09:19	KMG	TAL CAN

Client Sample ID: C-7878-081916-SSH-6099
Lab Sample ID: 240-68583-9
Date Collected: 08/19/16 11:10
Matrix: Solid
Date Received: 08/20/16 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	243923	08/23/16 14:30	LCN	TAL CAN

Client Sample ID: C-7878-081916-SSH-6099
Lab Sample ID: 240-68583-9
Date Collected: 08/19/16 11:10
Matrix: Solid
Date Received: 08/20/16 08:40
Percent Solids: 96.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			244664	08/29/16 11:46	DT	TAL CAN
Total/NA	Analysis	8082		5	244939	08/31/16 14:11	KMG	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68583-3

Client Sample ID: C-7878-081916-SSH-6101
Lab Sample ID: 240-68583-10
Date Collected: 08/19/16 11:15
Matrix: Solid
Date Received: 08/20/16 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	243923	08/23/16 14:30	LCN	TAL CAN

Client Sample ID: C-7878-081916-SSH-6101
Lab Sample ID: 240-68583-10
Date Collected: 08/19/16 11:15
Matrix: Solid
Date Received: 08/20/16 08:40
Percent Solids: 99.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			244664	08/29/16 10:49	DT	TAL CAN
Total/NA	Analysis	8082		50	244939	08/31/16 09:37	KMG	TAL CAN

Client Sample ID: C-7878-081916-SSH-6103
Lab Sample ID: 240-68583-13
Date Collected: 08/19/16 11:30
Matrix: Solid
Date Received: 08/20/16 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	243923	08/23/16 14:30	LCN	TAL CAN

Client Sample ID: C-7878-081916-SSH-6103
Lab Sample ID: 240-68583-13
Date Collected: 08/19/16 11:30
Matrix: Solid
Date Received: 08/20/16 08:40
Percent Solids: 98.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			244664	08/29/16 10:49	DT	TAL CAN
Total/NA	Analysis	8082		1	244939	08/31/16 09:55	KMG	TAL CAN

Client Sample ID: C-7878-081916-SSH-6102
Lab Sample ID: 240-68583-16
Date Collected: 08/19/16 11:45
Matrix: Solid
Date Received: 08/20/16 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	243923	08/23/16 14:30	LCN	TAL CAN

Client Sample ID: C-7878-081916-SSH-6102
Lab Sample ID: 240-68583-16
Date Collected: 08/19/16 11:45
Matrix: Solid
Date Received: 08/20/16 08:40
Percent Solids: 99.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			244664	08/29/16 10:49	DT	TAL CAN
Total/NA	Analysis	8082		10	244939	08/31/16 10:13	KMG	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68583-3

Client Sample ID: C-7878-081916-SSH-A1E — Lab Sample ID: 240-68583-25

Date Collected: 08/19/16 12:50 — **Matrix: Solid**
Date Received: 08/20/16 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	243923	08/23/16 14:30	LCN	TAL CAN

Client Sample ID: C-7878-081916-SSH-A1E — Lab Sample ID: 240-68583-25

Date Collected: 08/19/16 12:50 — **Matrix: Solid**
Date Received: 08/20/16 08:40 — **Percent Solids: 95.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			244664	08/29/16 10:49	DT	TAL CAN
Total/NA	Analysis	8082		1	244939	08/31/16 10:32	KMG	TAL CAN

Client Sample ID: C-7878-081916-SSH-A1F — Lab Sample ID: 240-68583-26

Date Collected: 08/19/16 12:55 — **Matrix: Solid**
Date Received: 08/20/16 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	243923	08/23/16 14:30	LCN	TAL CAN

Client Sample ID: C-7878-081916-SSH-A1F — Lab Sample ID: 240-68583-26

Date Collected: 08/19/16 12:55 — **Matrix: Solid**
Date Received: 08/20/16 08:40 — **Percent Solids: 99.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			244664	08/29/16 10:49	DT	TAL CAN
Total/NA	Analysis	8082		5	244939	08/31/16 10:50	KMG	TAL CAN

Laboratory References:

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

Certification Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-68583-3

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 (WW)	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	09-14-16 *
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 Michigan
10448 Citation Drive
Suite 200
Brighton, MI 48116
Phone: 810.229.2763 Fax:

4.6/5.6

Chain of Custody Record

149058

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: M. Tomka	Site Contact: JF Parlys	Date: 8/19/16	COC No: 149058
Company Name: GHD	Tel/Fax: 519 884 0510	Lab Contact: D. Heckler	Carrier: FedEx	1 of 3 COCs
Address: 1449b N. Sheldon Rd Steve	Analysis Turnaround Time			Sampler: S. Hoesemeyer
City/State/Zip: Plymouth MI 48170	☒ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 734 453 5123	TAT if different from Below 5 days			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: RacerTrust SMI	☐ 1 week			
Site: SSOW 7878-T01-012	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs	Sample Specific Notes:
C-7878-081916-SSH-6089	8/19/16	1030	G	C	1	N	N	X	
-6104		1035	G	C	1	N	N	X	
-6105		1040	G	C	1	N	N	X	
-6106		1045	G	C	1	N	N	X	hold
-6108		1050	G	C	1	N	N	X	hold
-6107		1055	G	C	1	N	N	X	hold
-6092		1100	G	C	1	N	N	X	
-6100		1105	G	C	1	N	N	X	hold
-6099		1110	G	C	1	N	N	X	hold
-6101		1115	G	C	1	N	N	X	hold
-6093		1120	G	C	1	N	N	X	
C-7878-081916-SSH-6091		1125	G	C	1	N	N	X	

240-68583 Chain of Custody

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.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.: 188425		Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:
Relinquished by:	Company: GHD	Date/Time: 8/19/16 1500	Received by:	Company: TA	Date/Time: 8-22-16 840
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

9/1/2016

TestAmerica Michigan
10448 Citation Drive
Suite 200
Brighton, MI 48116
Phone: 810.229.2763 Fax:

4.6/5.6

Chain of Custody Record

149059

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: M. Tomka	Site Contact: JE Pardys	Date: 8/19/16	COC No: 149055
Company Name: GHD	Tel/Fax: 519 884 0510	Lab Contact: D Hecker	Carrier: FedEx	2 of 3 COCs
Address:	Analysis Turnaround Time			Sampler: S. Howenstine
City/State/Zip:	☒ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone:	TAT if different from Below 5 days			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Raw Trust SMI	☐ 1 week			
Site: SSOW 7878-T01-012	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs	Sample Specific Notes:
C-7878-081916-SSH-6103	8/19/16	1130	G	L	1	N	N	X	hold
-6090		1135	G	L	1	N	N	X	
-6097		1140	G	L	1	N	N	X	
-6102		1145	G	L	1	N	N	X	hold
-6096		1150	G	L	1	N	N	X	
-6098		1155	G	L	1	N	N	X	
-6094		1200	G	L	1	N	N	X	
-6095		1205	G	L	1	N	N	X	
-A1A		1225	G	L	1	N	N	X	
-A1B		1230	G	L	1	N	N	X	
-A1C		1235	G	L	1	N	N	X	Hold
C-7878-081916-SSH-A1D		1240	G	L	1	N	N	X	Hold

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1

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.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: 788925 | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ | Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	GHD	8/19/16 1500	[signature]	TA	8-22-16 840
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

TestAmerica Michigan
10448 Citation Drive
Suite 200
Brighton, MI 48116
Phone: 810.229.2763 Fax:

4.6/5.6

Chain of Custody Record

149056

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: M. Tomka	Site Contact: JE Pardys	Date: 8/19/16	COC No: 149056
Company Name: GHD	Tel/Fax: 519 884 0510	Lab Contact: D. Hechler	Carrier: FedEx	3 of 3 COCs
Address:	Analysis Turnaround Time			Sampler: S. Howcroft
City/State/Zip:	☒ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone:	TAT if different from Below 5 days			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: RawTrust SMI	☐ 1 week			
Site: SSOW 7878-TP1-012	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs	Sample Specific Notes:
C-7878-081916-SSH-A1E	8/19/16	1250	G	C	1	N	N	X	hold
C-7878-081916-SSH-A1F	8/19/16	1255	G	C	1	N	N	X	hold

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.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: 788425 | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	GHD	8/19/16 1500	[signature]	TA	8-22-16 840
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

TestAmerica Canton Sample Receipt Form/Narrative **Login # : 68583**

Canton Facility

Client GHD Site Name _____ Cooler unpacked by:

Cooler Received on 8-22-16 Opened on 8-22-16

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # _____ Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

☐ See Multiple Cooler Form

1. Cooler temperature upon receipt
   IR GUN# IR-8 (CF +1.3 °C) Observed Cooler Temp._____ °C Corrected Cooler Temp._____ °C
   IR GUN #36 (CF +1.0°C) Observed Cooler Temp. 4.6 °C Corrected Cooler Temp. 5.6 °C
2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1 (Yes) No
   -Were custody seals on the outside of the cooler(s) signed & dated? (Yes) No NA
   -Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes (No)
3. Shippers' packing slip attached to the cooler(s)? (Yes) No
4. Did custody papers accompany the sample(s)? (Yes) No
5. Were the custody papers relinquished & signed in the appropriate place? (Yes) No
6. Was/were the person(s) who collected the samples clearly identified on the COC? (Yes) No
7. Did all bottles arrive in good condition (Unbroken)? (Yes) No
8. Could all bottle labels be reconciled with the COC? (Yes) No
9. Were correct bottle(s) used for the test(s) indicated? (Yes) No
10. Sufficient quantity received to perform indicated analyses? Yes (No)
11. Are these work share samples?
    If yes, Questions 11-15 have been checked at the originating laboratory.
11. Were sample(s) at the correct pH upon receipt? Yes No (NA) pH Strip Lot# **HC574756**
12. Were VOAs on the COC? (Yes) No
13. Were air bubbles >6 mm in any VOA vials? Yes (No) NA
14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #_____ Yes (No)
15. Was a LL Hg or Me Hg trip blank present? _____ Yes (No)

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by:

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

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: 240-69027-1
Client Project/Site: 7878, RACER SMI

For:
GHD Services Inc.
14496 Sheldon Road, Suite 200
Plymouth, Michigan 48170

Attn: Rawa Fleisher

Denise D Heckler

Authorized for release by:
9/12/2016 8:14:20 AM

Denise Heckler, Project Manager II
(330)966-9477
denise.heckler@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: 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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Job ID: 240-69027-1

Laboratory: TestAmerica Canton

Narrative

Job Narrative
240-69027-1

Comments
No additional comments.

Receipt
The samples were received on 9/2/2016 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.9º C.

GC Semi VOA
Method(s) 8082: The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: C-7878-090116-SSH-K6 (240-69027-1), C-7878-090116-SSH-K7 (240-69027-2), C-7878-090116-SSH-K8 (240-69027-3), C-7878-090116-SSH-K10 (240-69027-4), C-7878-090116-SSH-K11 (240-69027-5), C-7878-090116-SSH-K12 (240-69027-6), C-7878-090116-SSH-K13 (240-69027-7), C-7878-090116-SSH-K14 (240-69027-8), (240-69027-A-1-C MS) and (240-69027-A-1-D MSD).2688697, 2103098, 2586316.

Method(s) 8082: The following samples appear 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: C-7878-090116-SSH-K6 (240-69027-1), C-7878-090116-SSH-K7 (240-69027-2), C-7878-090116-SSH-K8 (240-69027-3), C-7878-090116-SSH-K10 (240-69027-4), C-7878-090116-SSH-K11 (240-69027-5), C-7878-090116-SSH-K12 (240-69027-6), C-7878-090116-SSH-K13 (240-69027-7), C-7878-090116-SSH-K14 (240-69027-8), (240-69027-A-1-C MS) and (240-69027-A-1-D MSD). Due to the poor match with the Aroclor standard(s), there is increased qualitative and quantitative uncertainty associated with this result.

Method(s) 8082: The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: C-7878-090116-SSH-K15 (240-69027-9).2688697, 2103098, 2586316.

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

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

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

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
X	Surrogate is outside control limits

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
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)

Sample Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69027-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-69027-1	C-7878-090116-SSH-K6	Solid	09/01/16 13:30	09/02/16 09:15
240-69027-2	C-7878-090116-SSH-K7	Solid	09/01/16 13:40	09/02/16 09:15
240-69027-3	C-7878-090116-SSH-K8	Solid	09/01/16 13:50	09/02/16 09:15
240-69027-4	C-7878-090116-SSH-K10	Solid	09/01/16 14:00	09/02/16 09:15
240-69027-5	C-7878-090116-SSH-K11	Solid	09/01/16 14:10	09/02/16 09:15
240-69027-6	C-7878-090116-SSH-K12	Solid	09/01/16 14:20	09/02/16 09:15
240-69027-7	C-7878-090116-SSH-K13	Solid	09/01/16 14:30	09/02/16 09:15
240-69027-8	C-7878-090116-SSH-K14	Solid	09/01/16 14:40	09/02/16 09:15
240-69027-9	C-7878-090116-SSH-K15	Solid	09/01/16 14:50	09/02/16 09:15

Detection Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69027-1

Client Sample ID: C-7878-090116-SSH-K6 — Lab Sample ID: 240-69027-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	2400		510	140	ug/Kg	5	☼	8082	Total/NA

Client Sample ID: C-7878-090116-SSH-K7 — Lab Sample ID: 240-69027-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	9300		1000	290	ug/Kg	10	☼	8082	Total/NA

Client Sample ID: C-7878-090116-SSH-K8 — Lab Sample ID: 240-69027-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	1400		100	29	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: C-7878-090116-SSH-K10 — Lab Sample ID: 240-69027-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	13000		1000	280	ug/Kg	10	☼	8082	Total/NA

Client Sample ID: C-7878-090116-SSH-K11 — Lab Sample ID: 240-69027-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	120000		5100	1400	ug/Kg	50	☼	8082	Total/NA

Client Sample ID: C-7878-090116-SSH-K12 — Lab Sample ID: 240-69027-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	1100		100	29	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: C-7878-090116-SSH-K13 — Lab Sample ID: 240-69027-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	790		100	29	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: C-7878-090116-SSH-K14 — Lab Sample ID: 240-69027-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	2600		520	150	ug/Kg	5	☼	8082	Total/NA

Client Sample ID: C-7878-090116-SSH-K15 — Lab Sample ID: 240-69027-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	330		100	28	ug/Kg	1	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69027-1

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
Moisture	Percent Moisture	EPA	TAL CAN

Protocol References:

EPA = US Environmental Protection Agency

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

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69027-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-090116-SSH-K6
Date Collected: 09/01/16 13:30
Date Received: 09/02/16 09:15

Lab Sample ID: 240-69027-1
Matrix: Solid
Percent Solids: 97.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	510	U	510	240	ug/Kg	☼	09/07/16 08:04	09/08/16 23:16	5
Aroclor-1221	510	U	510	230	ug/Kg	☼	09/07/16 08:04	09/08/16 23:16	5
Aroclor-1232	510	U	510	160	ug/Kg	☼	09/07/16 08:04	09/08/16 23:16	5
Aroclor-1242	510	U	510	200	ug/Kg	☼	09/07/16 08:04	09/08/16 23:16	5
Aroclor-1248	510	U	510	170	ug/Kg	☼	09/07/16 08:04	09/08/16 23:16	5
Aroclor-1254	**2400**		510	140	ug/Kg	☼	09/07/16 08:04	09/08/16 23:16	5
Aroclor-1260	510	U	510	180	ug/Kg	☼	09/07/16 08:04	09/08/16 23:16	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*64*		*14 - 128*	*09/07/16 08:04*	*09/08/16 23:16*	*5*
DCB Decachlorobiphenyl	*71*		*10 - 132*	*09/07/16 08:04*	*09/08/16 23:16*	*5*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69027-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-090116-SSH-K7
Date Collected: 09/01/16 13:40
Date Received: 09/02/16 09:15

Lab Sample ID: 240-69027-2
Matrix: Solid
Percent Solids: 96.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	1000	U	1000	500	ug/Kg	☼	09/07/16 08:04	09/09/16 00:11	10
Aroclor-1221	1000	U	1000	480	ug/Kg	☼	09/07/16 08:04	09/09/16 00:11	10
Aroclor-1232	1000	U	1000	330	ug/Kg	☼	09/07/16 08:04	09/09/16 00:11	10
Aroclor-1242	1000	U	1000	410	ug/Kg	☼	09/07/16 08:04	09/09/16 00:11	10
Aroclor-1248	1000	U	1000	350	ug/Kg	☼	09/07/16 08:04	09/09/16 00:11	10
Aroclor-1254	**9300**		1000	290	ug/Kg	☼	09/07/16 08:04	09/09/16 00:11	10
Aroclor-1260	1000	U	1000	370	ug/Kg	☼	09/07/16 08:04	09/09/16 00:11	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*77*		*14 - 128*	*09/07/16 08:04*	*09/09/16 00:11*	*10*
DCB Decachlorobiphenyl	*89*		*10 - 132*	*09/07/16 08:04*	*09/09/16 00:11*	*10*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69027-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-090116-SSH-K8
Date Collected: 09/01/16 13:50
Date Received: 09/02/16 09:15

Lab Sample ID: 240-69027-3
Matrix: Solid
Percent Solids: 94.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	100	U	100	49	ug/Kg	☼	09/07/16 08:04	09/09/16 00:30	1
Aroclor-1221	100	U	100	47	ug/Kg	☼	09/07/16 08:04	09/09/16 00:30	1
Aroclor-1232	100	U	100	33	ug/Kg	☼	09/07/16 08:04	09/09/16 00:30	1
Aroclor-1242	100	U	100	41	ug/Kg	☼	09/07/16 08:04	09/09/16 00:30	1
Aroclor-1248	100	U	100	35	ug/Kg	☼	09/07/16 08:04	09/09/16 00:30	1
Aroclor-1254	**1400**		100	29	ug/Kg	☼	09/07/16 08:04	09/09/16 00:30	1
Aroclor-1260	100	U	100	37	ug/Kg	☼	09/07/16 08:04	09/09/16 00:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*60*		*14 - 128*	*09/07/16 08:04*	*09/09/16 00:30*	*1*
DCB Decachlorobiphenyl	*51*		*10 - 132*	*09/07/16 08:04*	*09/09/16 00:30*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69027-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-090116-SSH-K10
Date Collected: 09/01/16 14:00
Date Received: 09/02/16 09:15

Lab Sample ID: 240-69027-4
Matrix: Solid
Percent Solids: 97.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	1000	U	1000	490	ug/Kg	☼	09/07/16 08:04	09/09/16 00:48	10
Aroclor-1221	1000	U	1000	470	ug/Kg	☼	09/07/16 08:04	09/09/16 00:48	10
Aroclor-1232	1000	U	1000	320	ug/Kg	☼	09/07/16 08:04	09/09/16 00:48	10
Aroclor-1242	1000	U	1000	410	ug/Kg	☼	09/07/16 08:04	09/09/16 00:48	10
Aroclor-1248	1000	U	1000	340	ug/Kg	☼	09/07/16 08:04	09/09/16 00:48	10
Aroclor-1254	**13000**		1000	280	ug/Kg	☼	09/07/16 08:04	09/09/16 00:48	10
Aroclor-1260	1000	U	1000	370	ug/Kg	☼	09/07/16 08:04	09/09/16 00:48	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*		*14 - 128*	*09/07/16 08:04*	*09/09/16 00:48*	*10*
DCB Decachlorobiphenyl	*213*	*X*	*10 - 132*	*09/07/16 08:04*	*09/09/16 00:48*	*10*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69027-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-090116-SSH-K11
Date Collected: 09/01/16 14:10
Date Received: 09/02/16 09:15

Lab Sample ID: 240-69027-5
Matrix: Solid
Percent Solids: 96.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	5100	U	5100	2500	ug/Kg	☼	09/07/16 08:04	09/09/16 01:07	50
Aroclor-1221	5100	U	5100	2400	ug/Kg	☼	09/07/16 08:04	09/09/16 01:07	50
Aroclor-1232	5100	U	5100	1600	ug/Kg	☼	09/07/16 08:04	09/09/16 01:07	50
Aroclor-1242	5100	U	5100	2100	ug/Kg	☼	09/07/16 08:04	09/09/16 01:07	50
Aroclor-1248	5100	U	5100	1700	ug/Kg	☼	09/07/16 08:04	09/09/16 01:07	50
Aroclor-1254	**120000**		5100	1400	ug/Kg	☼	09/07/16 08:04	09/09/16 01:07	50
Aroclor-1260	5100	U	5100	1800	ug/Kg	☼	09/07/16 08:04	09/09/16 01:07	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*92*		*14 - 128*	*09/07/16 08:04*	*09/09/16 01:07*	*50*
DCB Decachlorobiphenyl	*139*	*X*	*10 - 132*	*09/07/16 08:04*	*09/09/16 01:07*	*50*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69027-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-090116-SSH-K12
Date Collected: 09/01/16 14:20
Date Received: 09/02/16 09:15

Lab Sample ID: 240-69027-6
Matrix: Solid
Percent Solids: 93.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	100	U	100	50	ug/Kg	☼	09/07/16 08:04	09/09/16 01:25	1
Aroclor-1221	100	U	100	48	ug/Kg	☼	09/07/16 08:04	09/09/16 01:25	1
Aroclor-1232	100	U	100	33	ug/Kg	☼	09/07/16 08:04	09/09/16 01:25	1
Aroclor-1242	100	U	100	42	ug/Kg	☼	09/07/16 08:04	09/09/16 01:25	1
Aroclor-1248	100	U	100	35	ug/Kg	☼	09/07/16 08:04	09/09/16 01:25	1
Aroclor-1254	**1100**		100	29	ug/Kg	☼	09/07/16 08:04	09/09/16 01:25	1
Aroclor-1260	100	U	100	38	ug/Kg	☼	09/07/16 08:04	09/09/16 01:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*52*		*14 - 128*	*09/07/16 08:04*	*09/09/16 01:25*	*1*
DCB Decachlorobiphenyl	*50*		*10 - 132*	*09/07/16 08:04*	*09/09/16 01:25*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69027-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-090116-SSH-K13
Date Collected: 09/01/16 14:30
Date Received: 09/02/16 09:15

Lab Sample ID: 240-69027-7
Matrix: Solid
Percent Solids: 96.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	100	U	100	49	ug/Kg	☼	09/07/16 08:04	09/09/16 01:43	1
Aroclor-1221	100	U	100	47	ug/Kg	☼	09/07/16 08:04	09/09/16 01:43	1
Aroclor-1232	100	U	100	33	ug/Kg	☼	09/07/16 08:04	09/09/16 01:43	1
Aroclor-1242	100	U	100	41	ug/Kg	☼	09/07/16 08:04	09/09/16 01:43	1
Aroclor-1248	100	U	100	35	ug/Kg	☼	09/07/16 08:04	09/09/16 01:43	1
Aroclor-1254	**790**		100	29	ug/Kg	☼	09/07/16 08:04	09/09/16 01:43	1
Aroclor-1260	100	U	100	37	ug/Kg	☼	09/07/16 08:04	09/09/16 01:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*45*		*14 - 128*	*09/07/16 08:04*	*09/09/16 01:43*	*1*
DCB Decachlorobiphenyl	*59*		*10 - 132*	*09/07/16 08:04*	*09/09/16 01:43*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69027-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-090116-SSH-K14
Date Collected: 09/01/16 14:40
Date Received: 09/02/16 09:15

Lab Sample ID: 240-69027-8
Matrix: Solid
Percent Solids: 94.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	520	U	520	250	ug/Kg	☼	09/07/16 08:04	09/09/16 02:02	5
Aroclor-1221	520	U	520	240	ug/Kg	☼	09/07/16 08:04	09/09/16 02:02	5
Aroclor-1232	520	U	520	170	ug/Kg	☼	09/07/16 08:04	09/09/16 02:02	5
Aroclor-1242	520	U	520	210	ug/Kg	☼	09/07/16 08:04	09/09/16 02:02	5
Aroclor-1248	520	U	520	180	ug/Kg	☼	09/07/16 08:04	09/09/16 02:02	5
Aroclor-1254	**2600**		520	150	ug/Kg	☼	09/07/16 08:04	09/09/16 02:02	5
Aroclor-1260	520	U	520	190	ug/Kg	☼	09/07/16 08:04	09/09/16 02:02	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*67*		*14 - 128*	*09/07/16 08:04*	*09/09/16 02:02*	*5*
DCB Decachlorobiphenyl	*114*		*10 - 132*	*09/07/16 08:04*	*09/09/16 02:02*	*5*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69027-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-090116-SSH-K15
Date Collected: 09/01/16 14:50
Date Received: 09/02/16 09:15

Lab Sample ID: 240-69027-9
Matrix: Solid
Percent Solids: 94.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	100	U	100	49	ug/Kg	☼	09/07/16 08:04	09/09/16 09:58	1
Aroclor-1221	100	U	100	47	ug/Kg	☼	09/07/16 08:04	09/09/16 09:58	1
Aroclor-1232	100	U	100	33	ug/Kg	☼	09/07/16 08:04	09/09/16 09:58	1
Aroclor-1242	100	U	100	41	ug/Kg	☼	09/07/16 08:04	09/09/16 09:58	1
Aroclor-1248	100	U	100	35	ug/Kg	☼	09/07/16 08:04	09/09/16 09:58	1
Aroclor-1254	**330**		100	28	ug/Kg	☼	09/07/16 08:04	09/09/16 09:58	1
Aroclor-1260	100	U	100	37	ug/Kg	☼	09/07/16 08:04	09/09/16 09:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*62*		*14 - 128*	*09/07/16 08:04*	*09/09/16 09:58*	*1*
DCB Decachlorobiphenyl	*64*		*10 - 132*	*09/07/16 08:04*	*09/09/16 09:58*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69027-1

General Chemistry

Client Sample ID: C-7878-090116-SSH-K6
Date Collected: 09/01/16 13:30
Date Received: 09/02/16 09:15

Lab Sample ID: 240-69027-1
Matrix: Solid
Percent Solids: 97.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97.3		0.1	0.1	%			09/07/16 10:11	1
Percent Moisture	2.7		0.1	0.1	%			09/07/16 10:11	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69027-1

General Chemistry

Client Sample ID: C-7878-090116-SSH-K7
Date Collected: 09/01/16 13:40
Date Received: 09/02/16 09:15

Lab Sample ID: 240-69027-2
Matrix: Solid
Percent Solids: 96.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96.1		0.1	0.1	%			09/07/16 10:11	1
Percent Moisture	3.9		0.1	0.1	%			09/07/16 10:11	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69027-1

General Chemistry

Client Sample ID: C-7878-090116-SSH-K8
Date Collected: 09/01/16 13:50
Date Received: 09/02/16 09:15

Lab Sample ID: 240-69027-3
Matrix: Solid
Percent Solids: 94.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	94.5		0.1	0.1	%			09/07/16 10:11	1
Percent Moisture	5.5		0.1	0.1	%			09/07/16 10:11	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69027-1

General Chemistry

Client Sample ID: C-7878-090116-SSH-K10
Date Collected: 09/01/16 14:00
Date Received: 09/02/16 09:15

Lab Sample ID: 240-69027-4
Matrix: Solid
Percent Solids: 97.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97.2		0.1	0.1	%			09/07/16 10:11	1
Percent Moisture	2.8		0.1	0.1	%			09/07/16 10:11	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69027-1

General Chemistry

Client Sample ID: C-7878-090116-SSH-K11
Date Collected: 09/01/16 14:10
Date Received: 09/02/16 09:15

Lab Sample ID: 240-69027-5
Matrix: Solid
Percent Solids: 96.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96.8		0.1	0.1	%			09/07/16 10:11	1
Percent Moisture	3.2		0.1	0.1	%			09/07/16 10:11	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69027-1

General Chemistry

Client Sample ID: C-7878-090116-SSH-K12
Date Collected: 09/01/16 14:20
Date Received: 09/02/16 09:15

Lab Sample ID: 240-69027-6
Matrix: Solid
Percent Solids: 93.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	93.9		0.1	0.1	%			09/07/16 10:11	1
Percent Moisture	6.1		0.1	0.1	%			09/07/16 10:11	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69027-1

General Chemistry

Client Sample ID: C-7878-090116-SSH-K13
Date Collected: 09/01/16 14:30
Date Received: 09/02/16 09:15

Lab Sample ID: 240-69027-7
Matrix: Solid
Percent Solids: 96.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**96.2**		0.1	0.1	%			09/07/16 10:11	1
Percent Moisture	**3.8**		0.1	0.1	%			09/07/16 10:11	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69027-1

General Chemistry

Client Sample ID: C-7878-090116-SSH-K14
Date Collected: 09/01/16 14:40
Date Received: 09/02/16 09:15

Lab Sample ID: 240-69027-8
Matrix: Solid
Percent Solids: 94.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	94.1		0.1	0.1	%			09/07/16 10:11	1
Percent Moisture	5.9		0.1	0.1	%			09/07/16 10:11	1

General Chemistry

Client Sample ID: C-7878-090116-SSH-K15
Date Collected: 09/01/16 14:50
Date Received: 09/02/16 09:15

Lab Sample ID: 240-69027-9
Matrix: Solid
Percent Solids: 94.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	94.8		0.1	0.1	%			09/07/16 10:11	1
Percent Moisture	5.2		0.1	0.1	%			09/07/16 10:11	1

GC Semi VOA

Processed Batch: 245691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-69027-1	C-7878-090116-SSH-K6	Total/NA	Solid	Part Size Red	
240-69027-2	C-7878-090116-SSH-K7	Total/NA	Solid	Part Size Red	
240-69027-3	C-7878-090116-SSH-K8	Total/NA	Solid	Part Size Red	
240-69027-4	C-7878-090116-SSH-K10	Total/NA	Solid	Part Size Red	
240-69027-5	C-7878-090116-SSH-K11	Total/NA	Solid	Part Size Red	
240-69027-6	C-7878-090116-SSH-K12	Total/NA	Solid	Part Size Red	
240-69027-7	C-7878-090116-SSH-K13	Total/NA	Solid	Part Size Red	
240-69027-8	C-7878-090116-SSH-K14	Total/NA	Solid	Part Size Red	
240-69027-9	C-7878-090116-SSH-K15	Total/NA	Solid	Part Size Red	
240-69027-1 MS	C-7878-090116-SSH-K6	Total/NA	Solid	Part Size Red	
240-69027-1 MSD	C-7878-090116-SSH-K6	Total/NA	Solid	Part Size Red	

Prep Batch: 245742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-69027-1	C-7878-090116-SSH-K6	Total/NA	Solid	3540C	245691
240-69027-2	C-7878-090116-SSH-K7	Total/NA	Solid	3540C	245691
240-69027-3	C-7878-090116-SSH-K8	Total/NA	Solid	3540C	245691
240-69027-4	C-7878-090116-SSH-K10	Total/NA	Solid	3540C	245691
240-69027-5	C-7878-090116-SSH-K11	Total/NA	Solid	3540C	245691
240-69027-6	C-7878-090116-SSH-K12	Total/NA	Solid	3540C	245691
240-69027-7	C-7878-090116-SSH-K13	Total/NA	Solid	3540C	245691
240-69027-8	C-7878-090116-SSH-K14	Total/NA	Solid	3540C	245691
240-69027-9	C-7878-090116-SSH-K15	Total/NA	Solid	3540C	245691
MB 240-245742/19-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-245742/20-A	Lab Control Sample	Total/NA	Solid	3540C	
240-69027-1 MS	C-7878-090116-SSH-K6	Total/NA	Solid	3540C	245691
240-69027-1 MSD	C-7878-090116-SSH-K6	Total/NA	Solid	3540C	245691

Analysis Batch: 246052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-69027-1	C-7878-090116-SSH-K6	Total/NA	Solid	8082	245742
240-69027-2	C-7878-090116-SSH-K7	Total/NA	Solid	8082	245742
240-69027-3	C-7878-090116-SSH-K8	Total/NA	Solid	8082	245742
240-69027-4	C-7878-090116-SSH-K10	Total/NA	Solid	8082	245742
240-69027-5	C-7878-090116-SSH-K11	Total/NA	Solid	8082	245742
240-69027-6	C-7878-090116-SSH-K12	Total/NA	Solid	8082	245742
240-69027-7	C-7878-090116-SSH-K13	Total/NA	Solid	8082	245742
240-69027-8	C-7878-090116-SSH-K14	Total/NA	Solid	8082	245742
MB 240-245742/19-A	Method Blank	Total/NA	Solid	8082	245742
LCS 240-245742/20-A	Lab Control Sample	Total/NA	Solid	8082	245742
240-69027-1 MS	C-7878-090116-SSH-K6	Total/NA	Solid	8082	245742
240-69027-1 MSD	C-7878-090116-SSH-K6	Total/NA	Solid	8082	245742

Analysis Batch: 246073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-69027-9	C-7878-090116-SSH-K15	Total/NA	Solid	8082	245742

QC Association Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69027-1

General Chemistry

Processed Batch: 245691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-69027-1	C-7878-090116-SSH-K6	Total/NA	Solid	Part Size Red	
240-69027-2	C-7878-090116-SSH-K7	Total/NA	Solid	Part Size Red	
240-69027-3	C-7878-090116-SSH-K8	Total/NA	Solid	Part Size Red	
240-69027-4	C-7878-090116-SSH-K10	Total/NA	Solid	Part Size Red	
240-69027-5	C-7878-090116-SSH-K11	Total/NA	Solid	Part Size Red	
240-69027-6	C-7878-090116-SSH-K12	Total/NA	Solid	Part Size Red	
240-69027-7	C-7878-090116-SSH-K13	Total/NA	Solid	Part Size Red	
240-69027-8	C-7878-090116-SSH-K14	Total/NA	Solid	Part Size Red	
240-69027-9	C-7878-090116-SSH-K15	Total/NA	Solid	Part Size Red	
240-69027-1 DU	C-7878-090116-SSH-K6	Total/NA	Solid	Part Size Red	

Analysis Batch: 245784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-69027-1	C-7878-090116-SSH-K6	Total/NA	Solid	Moisture	245691
240-69027-2	C-7878-090116-SSH-K7	Total/NA	Solid	Moisture	245691
240-69027-3	C-7878-090116-SSH-K8	Total/NA	Solid	Moisture	245691
240-69027-4	C-7878-090116-SSH-K10	Total/NA	Solid	Moisture	245691
240-69027-5	C-7878-090116-SSH-K11	Total/NA	Solid	Moisture	245691
240-69027-6	C-7878-090116-SSH-K12	Total/NA	Solid	Moisture	245691
240-69027-7	C-7878-090116-SSH-K13	Total/NA	Solid	Moisture	245691
240-69027-8	C-7878-090116-SSH-K14	Total/NA	Solid	Moisture	245691
240-69027-9	C-7878-090116-SSH-K15	Total/NA	Solid	Moisture	245691
240-69027-1 DU	C-7878-090116-SSH-K6	Total/NA	Solid	Moisture	245691

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-245742/19-A
Matrix: Solid
Analysis Batch: 246052

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 245742

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	100	U	100	48	ug/Kg		09/07/16 08:04	09/09/16 02:38	1
Aroclor-1221	100	U	100	46	ug/Kg		09/07/16 08:04	09/09/16 02:38	1
Aroclor-1232	100	U	100	32	ug/Kg		09/07/16 08:04	09/09/16 02:38	1
Aroclor-1242	100	U	100	40	ug/Kg		09/07/16 08:04	09/09/16 02:38	1
Aroclor-1248	100	U	100	34	ug/Kg		09/07/16 08:04	09/09/16 02:38	1
Aroclor-1254	100	U	100	28	ug/Kg		09/07/16 08:04	09/09/16 02:38	1
Aroclor-1260	100	U	100	36	ug/Kg		09/07/16 08:04	09/09/16 02:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*54*		*14 - 128*	*09/07/16 08:04*	*09/09/16 02:38*	*1*
DCB Decachlorobiphenyl	*59*		*10 - 132*	*09/07/16 08:04*	*09/09/16 02:38*	*1*

Lab Sample ID: LCS 240-245742/20-A
Matrix: Solid
Analysis Batch: 246052

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 245742

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor-1016			2000	1240		ug/Kg		62	47 - 120		
Aroclor-1260			2000	1250		ug/Kg		63	46 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*65*		*14 - 128*
DCB Decachlorobiphenyl	*77*		*10 - 132*

Lab Sample ID: 240-69027-1 MS
Matrix: Solid
Analysis Batch: 246052

Client Sample ID: C-7878-090116-SSH-K6
Prep Type: Total/NA
Prep Batch: 245742

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor-1016	510	U	2020	1200		ug/Kg	☼	59	31 - 120		
Aroclor-1260	510	U	2020	1690		ug/Kg	☼	84	21 - 122		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*71*		*14 - 128*
DCB Decachlorobiphenyl	*66*		*10 - 132*

Lab Sample ID: 240-69027-1 MSD
Matrix: Solid
Analysis Batch: 246052

Client Sample ID: C-7878-090116-SSH-K6
Prep Type: Total/NA
Prep Batch: 245742

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor-1016	510	U	1990	1350		ug/Kg	☼	68	31 - 120	11	30
Aroclor-1260	510	U	1990	1580		ug/Kg	☼	80	21 - 122	6	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*72*		*14 - 128*
DCB Decachlorobiphenyl	*74*		*10 - 132*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69027-1

Method: Moisture - Percent Moisture

Lab Sample ID: 240-69027-1 DU
Matrix: Solid
Analysis Batch: 245784

Client Sample ID: C-7878-090116-SSH-K6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Solids	97.3			97.4		%					20
Percent Moisture	2.7			2.6		%					20

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69027-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		TCX1	DCB1										
Lab Sample ID	Client Sample ID	(14-128)	(10-132)										
240-69027-1	C-7878-090116-SSH-K6	64	71										
240-69027-1 MS	C-7878-090116-SSH-K6	71	66										
240-69027-1 MSD	C-7878-090116-SSH-K6	72	74										
240-69027-2	C-7878-090116-SSH-K7	77	89										
240-69027-3	C-7878-090116-SSH-K8	60	51										
240-69027-4	C-7878-090116-SSH-K10	68	213 X										
240-69027-5	C-7878-090116-SSH-K11	92	139 X										
240-69027-6	C-7878-090116-SSH-K12	52	50										
240-69027-7	C-7878-090116-SSH-K13	45	59										
240-69027-8	C-7878-090116-SSH-K14	67	114										
240-69027-9	C-7878-090116-SSH-K15	62	64										
LCS 240-245742/20-A	Lab Control Sample	65	77										
MB 240-245742/19-A	Method Blank	54	59										

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69027-1

Client Sample ID: C-7878-090116-SSH-K6
Lab Sample ID: 240-69027-1
Date Collected: 09/01/16 13:30
Matrix: Solid
Date Received: 09/02/16 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			245691	09/06/16 10:00	DRJ	TAL CAN
Total/NA	Analysis	Moisture		1	245784	09/07/16 10:11	JMB	TAL CAN

Client Sample ID: C-7878-090116-SSH-K6
Lab Sample ID: 240-69027-1
Date Collected: 09/01/16 13:30
Matrix: Solid
Date Received: 09/02/16 09:15
Percent Solids: 97.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			245691	09/06/16 10:00	DRJ	TAL CAN
Total/NA	Prep	3540C			245742	09/07/16 08:04	DT	TAL CAN
Total/NA	Analysis	8082		5	246052	09/08/16 23:16	LSH	TAL CAN

Client Sample ID: C-7878-090116-SSH-K7
Lab Sample ID: 240-69027-2
Date Collected: 09/01/16 13:40
Matrix: Solid
Date Received: 09/02/16 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			245691	09/06/16 10:00	DRJ	TAL CAN
Total/NA	Analysis	Moisture		1	245784	09/07/16 10:11	JMB	TAL CAN

Client Sample ID: C-7878-090116-SSH-K7
Lab Sample ID: 240-69027-2
Date Collected: 09/01/16 13:40
Matrix: Solid
Date Received: 09/02/16 09:15
Percent Solids: 96.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			245691	09/06/16 10:00	DRJ	TAL CAN
Total/NA	Prep	3540C			245742	09/07/16 08:04	DT	TAL CAN
Total/NA	Analysis	8082		10	246052	09/09/16 00:11	LSH	TAL CAN

Client Sample ID: C-7878-090116-SSH-K8
Lab Sample ID: 240-69027-3
Date Collected: 09/01/16 13:50
Matrix: Solid
Date Received: 09/02/16 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			245691	09/06/16 10:00	DRJ	TAL CAN
Total/NA	Analysis	Moisture		1	245784	09/07/16 10:11	JMB	TAL CAN

Client Sample ID: C-7878-090116-SSH-K8
Lab Sample ID: 240-69027-3
Date Collected: 09/01/16 13:50
Matrix: Solid
Date Received: 09/02/16 09:15
Percent Solids: 94.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			245691	09/06/16 10:00	DRJ	TAL CAN

Client Sample ID: C-7878-090116-SSH-K8
Lab Sample ID: 240-69027-3
Date Collected: 09/01/16 13:50
Matrix: Solid
Date Received: 09/02/16 09:15
Percent Solids: 94.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			245742	09/07/16 08:04	DT	TAL CAN
Total/NA	Analysis	8082		1	246052	09/09/16 00:30	LSH	TAL CAN

Client Sample ID: C-7878-090116-SSH-K10
Lab Sample ID: 240-69027-4
Date Collected: 09/01/16 14:00
Matrix: Solid
Date Received: 09/02/16 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			245691	09/06/16 10:00	DRJ	TAL CAN
Total/NA	Analysis	Moisture		1	245784	09/07/16 10:11	JMB	TAL CAN

Client Sample ID: C-7878-090116-SSH-K10
Lab Sample ID: 240-69027-4
Date Collected: 09/01/16 14:00
Matrix: Solid
Date Received: 09/02/16 09:15
Percent Solids: 97.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			245691	09/06/16 10:00	DRJ	TAL CAN
Total/NA	Prep	3540C			245742	09/07/16 08:04	DT	TAL CAN
Total/NA	Analysis	8082		10	246052	09/09/16 00:48	LSH	TAL CAN

Client Sample ID: C-7878-090116-SSH-K11
Lab Sample ID: 240-69027-5
Date Collected: 09/01/16 14:10
Matrix: Solid
Date Received: 09/02/16 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			245691	09/06/16 10:00	DRJ	TAL CAN
Total/NA	Analysis	Moisture		1	245784	09/07/16 10:11	JMB	TAL CAN

Client Sample ID: C-7878-090116-SSH-K11
Lab Sample ID: 240-69027-5
Date Collected: 09/01/16 14:10
Matrix: Solid
Date Received: 09/02/16 09:15
Percent Solids: 96.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			245691	09/06/16 10:00	DRJ	TAL CAN
Total/NA	Prep	3540C			245742	09/07/16 08:04	DT	TAL CAN
Total/NA	Analysis	8082		50	246052	09/09/16 01:07	LSH	TAL CAN

Client Sample ID: C-7878-090116-SSH-K12
Lab Sample ID: 240-69027-6
Date Collected: 09/01/16 14:20
Matrix: Solid
Date Received: 09/02/16 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			245691	09/06/16 10:00	DRJ	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69027-1

Client Sample ID: C-7878-090116-SSH-K12
Lab Sample ID: 240-69027-6
Date Collected: 09/01/16 14:20
Matrix: Solid
Date Received: 09/02/16 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	245784	09/07/16 10:11	JMB	TAL CAN

Client Sample ID: C-7878-090116-SSH-K12
Lab Sample ID: 240-69027-6
Date Collected: 09/01/16 14:20
Matrix: Solid
Date Received: 09/02/16 09:15
Percent Solids: 93.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			245691	09/06/16 10:00	DRJ	TAL CAN
Total/NA	Prep	3540C			245742	09/07/16 08:04	DT	TAL CAN
Total/NA	Analysis	8082		1	246052	09/09/16 01:25	LSH	TAL CAN

Client Sample ID: C-7878-090116-SSH-K13
Lab Sample ID: 240-69027-7
Date Collected: 09/01/16 14:30
Matrix: Solid
Date Received: 09/02/16 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			245691	09/06/16 20:07	DRJ	TAL CAN
Total/NA	Analysis	Moisture		1	245784	09/07/16 10:11	JMB	TAL CAN

Client Sample ID: C-7878-090116-SSH-K13
Lab Sample ID: 240-69027-7
Date Collected: 09/01/16 14:30
Matrix: Solid
Date Received: 09/02/16 09:15
Percent Solids: 96.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			245691	09/06/16 20:07	DRJ	TAL CAN
Total/NA	Prep	3540C			245742	09/07/16 08:04	DT	TAL CAN
Total/NA	Analysis	8082		1	246052	09/09/16 01:43	LSH	TAL CAN

Client Sample ID: C-7878-090116-SSH-K14
Lab Sample ID: 240-69027-8
Date Collected: 09/01/16 14:40
Matrix: Solid
Date Received: 09/02/16 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			245691	09/06/16 20:07	DRJ	TAL CAN
Total/NA	Analysis	Moisture		1	245784	09/07/16 10:11	JMB	TAL CAN

Client Sample ID: C-7878-090116-SSH-K14
Lab Sample ID: 240-69027-8
Date Collected: 09/01/16 14:40
Matrix: Solid
Date Received: 09/02/16 09:15
Percent Solids: 94.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			245691	09/06/16 20:07	DRJ	TAL CAN
Total/NA	Prep	3540C			245742	09/07/16 08:04	DT	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69027-1

Client Sample ID: C-7878-090116-SSH-K14

Lab Sample ID: 240-69027-8
Date Collected: 09/01/16 14:40
Matrix: Solid
Date Received: 09/02/16 09:15
Percent Solids: 94.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8082		5	246052	09/09/16 02:02	LSH	TAL CAN

Client Sample ID: C-7878-090116-SSH-K15

Lab Sample ID: 240-69027-9
Date Collected: 09/01/16 14:50
Matrix: Solid
Date Received: 09/02/16 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			245691	09/06/16 20:07	DRJ	TAL CAN
Total/NA	Analysis	Moisture		1	245784	09/07/16 10:11	JMB	TAL CAN

Client Sample ID: C-7878-090116-SSH-K15

Lab Sample ID: 240-69027-9
Date Collected: 09/01/16 14:50
Matrix: Solid
Date Received: 09/02/16 09:15
Percent Solids: 94.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			245691	09/06/16 20:07	DRJ	TAL CAN
Total/NA	Prep	3540C			245742	09/07/16 08:04	DT	TAL CAN
Total/NA	Analysis	8082		1	246073	09/09/16 09:58	LSH	TAL CAN

Laboratory References:

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

Certification Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69027-1

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 (WW)	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	09-14-16 *
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 Michigan
10448 Citation Drive
Suite 200
Brighton, MI 48116
Phone: 810.229.2763 Fax:

1.6/C2.9

Chain of Custody Record

149067

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other:

Client Contact	Project Manager: M. Temkin	Site Contact: SE Pardys	Date: 9/1/16	COC No: 149067
Company Name: GHD	Tel/Fax: 519 884 0510	Lab Contact: D. Heckler	Carrier: FedEx	1 of 1 COCs
Address: 14496 N. Sheldon Rd Ste 200	Analysis Turnaround Time			Sampler: S. Hovemeyer
City/State/Zip: Plymouth, MI 48170	☐ CALENDAR DAYS ☒ WORKING DAYS			For Lab Use Only:
Phone: 734 453 5123	TAT if different from Below 5 days			Walk-in Client:
Fax:	☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day			Lab Sampling:
Project Name: RacerTrust SMI				Job / SDG No.:
Site: SSOW 7878-T01-012				
P O #				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	PCBs	Sample Specific Notes:
C-7878-090116-SSH-K6	9/1/16	1330	G	C	1	N	N	X	
-K7		1340	G	C	1	N	N	X	
-K8		1350	G	C	1	N	N	X	
-K10		1400	G	C	1	N	N	X	
-K11		1410	G	C	1	N	N	X	
-K12		1420	G	C	1	N	N	X	
-K13		1430	G	C	1	N	N	X	
-K14		1440	G	C	1	N	N	X	
C-7878-090116-SSH-K15		1450	G	C	1	N	N	X	

SSH



Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1

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.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: 542774 | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ | Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	GHD	9/1/16 1800	Regan Henderson	TA	9-2-16 915
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

TestAmerica Canton Sample Receipt Form/Narrative **Login # :** 69027
Canton Facility

Client GHD Site Name _____ Cooler unpacked by: Ryan Anderson

Cooler Received on 9-2-16 Opened on 9-2-16

FedEx: 1st Grd (Exp) UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # _____ Foam Box (Client Cooler) Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag (None) Other _____

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN# IR-8 (CF **+0.4** °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. 2.9 °C

IR GUN #36 (CF **+1.3**°C) Observed Cooler Temp. 1.6 °C Corrected Cooler Temp. _____ °C

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1	(Yes)	No
-Were custody seals on the outside of the cooler(s) signed & dated?	(Yes)	No NA
-Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	(No)
3. Shippers' packing slip attached to the cooler(s)?	(Yes)	No
4. Did custody papers accompany the sample(s)?	(Yes)	No
5. Were the custody papers relinquished & signed in the appropriate place?	(Yes)	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	(Yes)	No
7. Did all bottles arrive in good condition (Unbroken)?	(Yes)	No
8. Could all bottle labels be reconciled with the COC?	(Yes)	No
9. Were correct bottle(s) used for the test(s) indicated?	(Yes)	No
10. Sufficient quantity received to perform indicated analyses?	(Yes)	No
11. Are these work share samples?	Yes	(No)
If yes, Questions 11-15 have been checked at the originating laboratory.		
11. Were sample(s) at the correct pH upon receipt?	Yes No	(NA) pH Strip Lot# **HC574756**
12. Were VOAs on the COC?	Yes	(No)
13. Were air bubbles >6 mm in any VOA vials?	Yes No	(NA)
14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____	Yes	(No)
15. Was a LL Hg or Me Hg trip blank present? _____	Yes	(No)

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by:

Samples 6, 8, 11, 12, 14, 15

Received wet bags compromised

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

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: 240-69073-1
Client Project/Site: 7878, RACER SMI

For:
GHD Services Inc.
14496 Sheldon Road, Suite 200
Plymouth, Michigan 48170

Attn: Rawa Fleisher

Denise D Heckler

Authorized for release by:
9/12/2016 12:28:28 PM

Denise Heckler, Project Manager II
(330)966-9477
denise.heckler@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: 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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Job ID: 240-69073-1

Laboratory: TestAmerica Canton

Narrative

Job Narrative
240-69073-1

Comments
No additional comments.

Receipt
The samples were received on 9/3/2016 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.0º C.

GC Semi VOA
Method(s) 8082: The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: C-7878-090216-SSH-6114 (240-69073-3), C-7878-090216-SSH-6117 (240-69073-6), C-7878-090216-SSH-6110 (240-69073-7), (240-69027-A-1-B), (240-69027-A-1-C MS) and (240-69027-A-1-D MSD).2688697, 2103098, 2586316.

Method(s) 8082: The following samples appear 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: C-7878-090216-SSH-6125 (240-69073-1), C-7878-090216-SSH-6115 (240-69073-2), C-7878-090216-SSH-6114 (240-69073-3), C-7878-090216-SSH-6121 (240-69073-4), C-7878-090216-SSH-6118 (240-69073-5), C-7878-090216-SSH-6117 (240-69073-6), C-7878-090216-SSH-6110 (240-69073-7), (240-69027-A-1-B), (240-69027-A-1-C MS) and (240-69027-A-1-D MSD). 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.

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

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

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
X	Surrogate is outside control limits
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

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
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)

Sample Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69073-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-69073-1	C-7878-090216-SSH-6125	Solid	09/02/16 09:00	09/03/16 09:30
240-69073-2	C-7878-090216-SSH-6115	Solid	09/02/16 09:10	09/03/16 09:30
240-69073-3	C-7878-090216-SSH-6114	Solid	09/02/16 09:20	09/03/16 09:30
240-69073-4	C-7878-090216-SSH-6121	Solid	09/02/16 09:30	09/03/16 09:30
240-69073-5	C-7878-090216-SSH-6118	Solid	09/02/16 12:30	09/03/16 09:30
240-69073-6	C-7878-090216-SSH-6117	Solid	09/02/16 12:40	09/03/16 09:30
240-69073-7	C-7878-090216-SSH-6110	Solid	09/02/16 12:50	09/03/16 09:30

Detection Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69073-1

Client Sample ID: C-7878-090216-SSH-6125 — Lab Sample ID: 240-69073-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	3800		500	140	ug/Kg	5	☼	8082	Total/NA

Client Sample ID: C-7878-090216-SSH-6115 — Lab Sample ID: 240-69073-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	2000		100	28	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: C-7878-090216-SSH-6114 — Lab Sample ID: 240-69073-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	70000		5200	1400	ug/Kg	50	☼	8082	Total/NA

Client Sample ID: C-7878-090216-SSH-6121 — Lab Sample ID: 240-69073-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	460000		20000	5600	ug/Kg	200	☼	8082	Total/NA

Client Sample ID: C-7878-090216-SSH-6118 — Lab Sample ID: 240-69073-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	450000		52000	14000	ug/Kg	500	☼	8082	Total/NA

Client Sample ID: C-7878-090216-SSH-6117 — Lab Sample ID: 240-69073-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	150000		10000	2900	ug/Kg	100	☼	8082	Total/NA

Client Sample ID: C-7878-090216-SSH-6110 — Lab Sample ID: 240-69073-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	11000		1000	290	ug/Kg	10	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69073-1

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
Moisture	Percent Moisture	EPA	TAL CAN

Protocol References:

EPA = US Environmental Protection Agency

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

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69073-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-090216-SSH-6125
Date Collected: 09/02/16 09:00
Date Received: 09/03/16 09:30

Lab Sample ID: 240-69073-1
Matrix: Solid
Percent Solids: 96.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	500	U	500	240	ug/Kg	☼	09/07/16 08:04	09/08/16 21:07	5
Aroclor-1221	500	U	500	230	ug/Kg	☼	09/07/16 08:04	09/08/16 21:07	5
Aroclor-1232	500	U	500	160	ug/Kg	☼	09/07/16 08:04	09/08/16 21:07	5
Aroclor-1242	500	U	500	200	ug/Kg	☼	09/07/16 08:04	09/08/16 21:07	5
Aroclor-1248	500	U	500	170	ug/Kg	☼	09/07/16 08:04	09/08/16 21:07	5
Aroclor-1254	**3800**		500	140	ug/Kg	☼	09/07/16 08:04	09/08/16 21:07	5
Aroclor-1260	500	U	500	180	ug/Kg	☼	09/07/16 08:04	09/08/16 21:07	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*77*		*14 - 128*	*09/07/16 08:04*	*09/08/16 21:07*	*5*
DCB Decachlorobiphenyl	*73*		*10 - 132*	*09/07/16 08:04*	*09/08/16 21:07*	*5*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69073-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-090216-SSH-6115
Date Collected: 09/02/16 09:10
Date Received: 09/03/16 09:30

Lab Sample ID: 240-69073-2
Matrix: Solid
Percent Solids: 96.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	100	U	100	49	ug/Kg	☼	09/07/16 08:04	09/08/16 21:26	1
Aroclor-1221	100	U	100	47	ug/Kg	☼	09/07/16 08:04	09/08/16 21:26	1
Aroclor-1232	100	U	100	32	ug/Kg	☼	09/07/16 08:04	09/08/16 21:26	1
Aroclor-1242	100	U	100	41	ug/Kg	☼	09/07/16 08:04	09/08/16 21:26	1
Aroclor-1248	100	U	100	34	ug/Kg	☼	09/07/16 08:04	09/08/16 21:26	1
Aroclor-1254	**2000**		100	28	ug/Kg	☼	09/07/16 08:04	09/08/16 21:26	1
Aroclor-1260	100	U	100	36	ug/Kg	☼	09/07/16 08:04	09/08/16 21:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*88*		*14 - 128*	*09/07/16 08:04*	*09/08/16 21:26*	*1*
DCB Decachlorobiphenyl	*86*		*10 - 132*	*09/07/16 08:04*	*09/08/16 21:26*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69073-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-090216-SSH-6114
Date Collected: 09/02/16 09:20
Date Received: 09/03/16 09:30

Lab Sample ID: 240-69073-3
Matrix: Solid
Percent Solids: 94.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	5200	U	5200	2500	ug/Kg	☼	09/07/16 08:04	09/08/16 21:44	50
Aroclor-1221	5200	U	5200	2400	ug/Kg	☼	09/07/16 08:04	09/08/16 21:44	50
Aroclor-1232	5200	U	5200	1600	ug/Kg	☼	09/07/16 08:04	09/08/16 21:44	50
Aroclor-1242	5200	U	5200	2100	ug/Kg	☼	09/07/16 08:04	09/08/16 21:44	50
Aroclor-1248	5200	U	5200	1800	ug/Kg	☼	09/07/16 08:04	09/08/16 21:44	50
Aroclor-1254	**70000**		5200	1400	ug/Kg	☼	09/07/16 08:04	09/08/16 21:44	50
Aroclor-1260	5200	U	5200	1900	ug/Kg	☼	09/07/16 08:04	09/08/16 21:44	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*91*		*14 - 128*	*09/07/16 08:04*	*09/08/16 21:44*	*50*
DCB Decachlorobiphenyl	*1403*	*X*	*10 - 132*	*09/07/16 08:04*	*09/08/16 21:44*	*50*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69073-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-090216-SSH-6121
Date Collected: 09/02/16 09:30
Date Received: 09/03/16 09:30

Lab Sample ID: 240-69073-4
Matrix: Solid
Percent Solids: 96.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	20000	U	20000	9700	ug/Kg	☼	09/07/16 08:04	09/08/16 22:02	200
Aroclor-1221	20000	U	20000	9300	ug/Kg	☼	09/07/16 08:04	09/08/16 22:02	200
Aroclor-1232	20000	U	20000	6500	ug/Kg	☼	09/07/16 08:04	09/08/16 22:02	200
Aroclor-1242	20000	U	20000	8100	ug/Kg	☼	09/07/16 08:04	09/08/16 22:02	200
Aroclor-1248	20000	U	20000	6900	ug/Kg	☼	09/07/16 08:04	09/08/16 22:02	200
Aroclor-1254	**460000**		20000	5600	ug/Kg	☼	09/07/16 08:04	09/08/16 22:02	200
Aroclor-1260	20000	U	20000	7300	ug/Kg	☼	09/07/16 08:04	09/08/16 22:02	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*219*	*X*	*14 - 128*	*09/07/16 08:04*	*09/08/16 22:02*	*200*
DCB Decachlorobiphenyl	*248*	*p X*	*10 - 132*	*09/07/16 08:04*	*09/08/16 22:02*	*200*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69073-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-090216-SSH-6118
Date Collected: 09/02/16 12:30
Date Received: 09/03/16 09:30

Lab Sample ID: 240-69073-5
Matrix: Solid
Percent Solids: 95.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	52000	U	52000	25000	ug/Kg	☼	09/07/16 08:04	09/08/16 22:21	500
Aroclor-1221	52000	U	52000	24000	ug/Kg	☼	09/07/16 08:04	09/08/16 22:21	500
Aroclor-1232	52000	U	52000	17000	ug/Kg	☼	09/07/16 08:04	09/08/16 22:21	500
Aroclor-1242	52000	U	52000	21000	ug/Kg	☼	09/07/16 08:04	09/08/16 22:21	500
Aroclor-1248	52000	U	52000	18000	ug/Kg	☼	09/07/16 08:04	09/08/16 22:21	500
Aroclor-1254	**450000**		52000	14000	ug/Kg	☼	09/07/16 08:04	09/08/16 22:21	500
Aroclor-1260	52000	U	52000	19000	ug/Kg	☼	09/07/16 08:04	09/08/16 22:21	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*X*	*14 - 128*	*09/07/16 08:04*	*09/08/16 22:21*	*500*
DCB Decachlorobiphenyl	*0*	*X*	*10 - 132*	*09/07/16 08:04*	*09/08/16 22:21*	*500*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69073-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-090216-SSH-6117
Date Collected: 09/02/16 12:40
Date Received: 09/03/16 09:30

Lab Sample ID: 240-69073-6
Matrix: Solid
Percent Solids: 95.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	10000	U	10000	5000	ug/Kg	☼	09/07/16 08:04	09/08/16 22:39	100
Aroclor-1221	10000	U	10000	4800	ug/Kg	☼	09/07/16 08:04	09/08/16 22:39	100
Aroclor-1232	10000	U	10000	3300	ug/Kg	☼	09/07/16 08:04	09/08/16 22:39	100
Aroclor-1242	10000	U	10000	4100	ug/Kg	☼	09/07/16 08:04	09/08/16 22:39	100
Aroclor-1248	10000	U	10000	3500	ug/Kg	☼	09/07/16 08:04	09/08/16 22:39	100
Aroclor-1254	**150000**		10000	2900	ug/Kg	☼	09/07/16 08:04	09/08/16 22:39	100
Aroclor-1260	10000	U	10000	3700	ug/Kg	☼	09/07/16 08:04	09/08/16 22:39	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*121*		*14 - 128*	*09/07/16 08:04*	*09/08/16 22:39*	*100*
DCB Decachlorobiphenyl	*86*		*10 - 132*	*09/07/16 08:04*	*09/08/16 22:39*	*100*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69073-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-090216-SSH-6110
Date Collected: 09/02/16 12:50
Date Received: 09/03/16 09:30

Lab Sample ID: 240-69073-7
Matrix: Solid
Percent Solids: 95.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	1000	U	1000	500	ug/Kg	☼	09/07/16 08:04	09/08/16 22:58	10
Aroclor-1221	1000	U	1000	480	ug/Kg	☼	09/07/16 08:04	09/08/16 22:58	10
Aroclor-1232	1000	U	1000	330	ug/Kg	☼	09/07/16 08:04	09/08/16 22:58	10
Aroclor-1242	1000	U	1000	410	ug/Kg	☼	09/07/16 08:04	09/08/16 22:58	10
Aroclor-1248	1000	U	1000	350	ug/Kg	☼	09/07/16 08:04	09/08/16 22:58	10
Aroclor-1254	**11000**		1000	290	ug/Kg	☼	09/07/16 08:04	09/08/16 22:58	10
Aroclor-1260	1000	U	1000	370	ug/Kg	☼	09/07/16 08:04	09/08/16 22:58	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*14 - 128*	*09/07/16 08:04*	*09/08/16 22:58*	*10*
DCB Decachlorobiphenyl	*72*		*10 - 132*	*09/07/16 08:04*	*09/08/16 22:58*	*10*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69073-1

General Chemistry

Client Sample ID: C-7878-090216-SSH-6125
Date Collected: 09/02/16 09:00
Date Received: 09/03/16 09:30

Lab Sample ID: 240-69073-1
Matrix: Solid
Percent Solids: 96.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96.5		0.1	0.1	%			09/07/16 10:11	1
Percent Moisture	3.5		0.1	0.1	%			09/07/16 10:11	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69073-1

General Chemistry

Client Sample ID: C-7878-090216-SSH-6115
Date Collected: 09/02/16 09:10
Date Received: 09/03/16 09:30

Lab Sample ID: 240-69073-2
Matrix: Solid
Percent Solids: 96.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96.3		0.1	0.1	%			09/07/16 10:11	1
Percent Moisture	3.7		0.1	0.1	%			09/07/16 10:11	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69073-1

General Chemistry

Client Sample ID: C-7878-090216-SSH-6114
Date Collected: 09/02/16 09:20
Date Received: 09/03/16 09:30

Lab Sample ID: 240-69073-3
Matrix: Solid
Percent Solids: 94.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	94.7		0.1	0.1	%			09/07/16 10:11	1
Percent Moisture	5.3		0.1	0.1	%			09/07/16 10:11	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69073-1

General Chemistry

Client Sample ID: C-7878-090216-SSH-6121
Date Collected: 09/02/16 09:30
Date Received: 09/03/16 09:30

Lab Sample ID: 240-69073-4
Matrix: Solid
Percent Solids: 96.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96.6		0.1	0.1	%			09/07/16 10:11	1
Percent Moisture	3.4		0.1	0.1	%			09/07/16 10:11	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69073-1

General Chemistry

Client Sample ID: C-7878-090216-SSH-6118
Date Collected: 09/02/16 12:30
Date Received: 09/03/16 09:30

Lab Sample ID: 240-69073-5
Matrix: Solid
Percent Solids: 95.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	95.2		0.1	0.1	%			09/07/16 10:11	1
Percent Moisture	4.8		0.1	0.1	%			09/07/16 10:11	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69073-1

General Chemistry

Client Sample ID: C-7878-090216-SSH-6117
Date Collected: 09/02/16 12:40
Date Received: 09/03/16 09:30

Lab Sample ID: 240-69073-6
Matrix: Solid
Percent Solids: 95.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	95.4		0.1	0.1	%			09/07/16 10:11	1
Percent Moisture	4.6		0.1	0.1	%			09/07/16 10:11	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69073-1

General Chemistry

Client Sample ID: C-7878-090216-SSH-6110
Date Collected: 09/02/16 12:50
Date Received: 09/03/16 09:30

Lab Sample ID: 240-69073-7
Matrix: Solid
Percent Solids: 95.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	95.8		0.1	0.1	%			09/07/16 10:11	1
Percent Moisture	4.2		0.1	0.1	%			09/07/16 10:11	1

GC Semi VOA

Processed Batch: 245691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-69073-1	C-7878-090216-SSH-6125	Total/NA	Solid	Part Size Red	
240-69073-2	C-7878-090216-SSH-6115	Total/NA	Solid	Part Size Red	
240-69073-3	C-7878-090216-SSH-6114	Total/NA	Solid	Part Size Red	
240-69073-4	C-7878-090216-SSH-6121	Total/NA	Solid	Part Size Red	
240-69073-5	C-7878-090216-SSH-6118	Total/NA	Solid	Part Size Red	
240-69073-6	C-7878-090216-SSH-6117	Total/NA	Solid	Part Size Red	
240-69073-7	C-7878-090216-SSH-6110	Total/NA	Solid	Part Size Red	

Prep Batch: 245742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-69073-1	C-7878-090216-SSH-6125	Total/NA	Solid	3540C	245691
240-69073-2	C-7878-090216-SSH-6115	Total/NA	Solid	3540C	245691
240-69073-3	C-7878-090216-SSH-6114	Total/NA	Solid	3540C	245691
240-69073-4	C-7878-090216-SSH-6121	Total/NA	Solid	3540C	245691
240-69073-5	C-7878-090216-SSH-6118	Total/NA	Solid	3540C	245691
240-69073-6	C-7878-090216-SSH-6117	Total/NA	Solid	3540C	245691
240-69073-7	C-7878-090216-SSH-6110	Total/NA	Solid	3540C	245691
MB 240-245742/19-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-245742/20-A	Lab Control Sample	Total/NA	Solid	3540C	

Prep Batch: 245772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-245772/8-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-245772/9-A	Lab Control Sample	Total/NA	Solid	3540C	

Analysis Batch: 245892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-245772/8-A	Method Blank	Total/NA	Solid	8082	245772
LCS 240-245772/9-A	Lab Control Sample	Total/NA	Solid	8082	245772

Analysis Batch: 246052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-69073-1	C-7878-090216-SSH-6125	Total/NA	Solid	8082	245742
240-69073-2	C-7878-090216-SSH-6115	Total/NA	Solid	8082	245742
240-69073-3	C-7878-090216-SSH-6114	Total/NA	Solid	8082	245742
240-69073-4	C-7878-090216-SSH-6121	Total/NA	Solid	8082	245742
240-69073-5	C-7878-090216-SSH-6118	Total/NA	Solid	8082	245742
240-69073-6	C-7878-090216-SSH-6117	Total/NA	Solid	8082	245742
240-69073-7	C-7878-090216-SSH-6110	Total/NA	Solid	8082	245742
MB 240-245742/19-A	Method Blank	Total/NA	Solid	8082	245742
LCS 240-245742/20-A	Lab Control Sample	Total/NA	Solid	8082	245742

General Chemistry

Analysis Batch: 245784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-69073-1	C-7878-090216-SSH-6125	Total/NA	Solid	Moisture	
240-69073-2	C-7878-090216-SSH-6115	Total/NA	Solid	Moisture	
240-69073-3	C-7878-090216-SSH-6114	Total/NA	Solid	Moisture	
240-69073-4	C-7878-090216-SSH-6121	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 245784 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-69073-5	C-7878-090216-SSH-6118	Total/NA	Solid	Moisture	
240-69073-6	C-7878-090216-SSH-6117	Total/NA	Solid	Moisture	
240-69073-7	C-7878-090216-SSH-6110	Total/NA	Solid	Moisture	

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-245742/19-A
Matrix: Solid
Analysis Batch: 246052

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 245742

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	100	U	100	48	ug/Kg		09/07/16 08:04	09/09/16 02:38	1
Aroclor-1221	100	U	100	46	ug/Kg		09/07/16 08:04	09/09/16 02:38	1
Aroclor-1232	100	U	100	32	ug/Kg		09/07/16 08:04	09/09/16 02:38	1
Aroclor-1242	100	U	100	40	ug/Kg		09/07/16 08:04	09/09/16 02:38	1
Aroclor-1248	100	U	100	34	ug/Kg		09/07/16 08:04	09/09/16 02:38	1
Aroclor-1254	100	U	100	28	ug/Kg		09/07/16 08:04	09/09/16 02:38	1
Aroclor-1260	100	U	100	36	ug/Kg		09/07/16 08:04	09/09/16 02:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*54*		*14 - 128*	*09/07/16 08:04*	*09/09/16 02:38*	*1*
DCB Decachlorobiphenyl	*59*		*10 - 132*	*09/07/16 08:04*	*09/09/16 02:38*	*1*

Lab Sample ID: LCS 240-245742/20-A
Matrix: Solid
Analysis Batch: 246052

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 245742

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor-1016			2000	1240		ug/Kg		62	47 - 120		
Aroclor-1260			2000	1250		ug/Kg		63	46 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*65*		*14 - 128*
DCB Decachlorobiphenyl	*77*		*10 - 132*

Lab Sample ID: MB 240-245772/8-A
Matrix: Solid
Analysis Batch: 245892

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 245772

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	100	U	100	48	ug/Kg		09/07/16 09:41	09/08/16 11:05	1
Aroclor-1221	100	U	100	46	ug/Kg		09/07/16 09:41	09/08/16 11:05	1
Aroclor-1232	100	U	100	32	ug/Kg		09/07/16 09:41	09/08/16 11:05	1
Aroclor-1242	100	U	100	40	ug/Kg		09/07/16 09:41	09/08/16 11:05	1
Aroclor-1248	100	U	100	34	ug/Kg		09/07/16 09:41	09/08/16 11:05	1
Aroclor-1254	100	U	100	28	ug/Kg		09/07/16 09:41	09/08/16 11:05	1
Aroclor-1260	100	U	100	36	ug/Kg		09/07/16 09:41	09/08/16 11:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*	*p*	*14 - 128*	*09/07/16 09:41*	*09/08/16 11:05*	*1*
DCB Decachlorobiphenyl	*79*		*10 - 132*	*09/07/16 09:41*	*09/08/16 11:05*	*1*

Lab Sample ID: LCS 240-245772/9-A
Matrix: Solid
Analysis Batch: 245892

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 245772

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor-1016			2000	1060		ug/Kg		53	47 - 120		

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 240-245772/9-A
Matrix: Solid
Analysis Batch: 245892

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 245772

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor-1260			2000	1060		ug/Kg		53	46 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*50*	*p*	*14 - 128*
DCB Decachlorobiphenyl	*66*		*10 - 132*

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69073-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	TCX1 (14-128)	DCB1 (10-132)								
240-69073-1	C-7878-090216-SSH-6125	77	73								
240-69073-2	C-7878-090216-SSH-6115	88	86								
240-69073-3	C-7878-090216-SSH-6114	91	1403 X								
240-69073-4	C-7878-090216-SSH-6121	219 X	248 p X								
240-69073-5	C-7878-090216-SSH-6118	0 X	0 X								
240-69073-6	C-7878-090216-SSH-6117	121	86								
240-69073-7	C-7878-090216-SSH-6110	75	72								
LCS 240-245742/20-A	Lab Control Sample	65	77								
LCS 240-245772/9-A	Lab Control Sample	50 p	66								
MB 240-245742/19-A	Method Blank	54	59								
MB 240-245772/8-A	Method Blank	75 p	79								

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

Client Sample ID: C-7878-090216-SSH-6125 — Lab Sample ID: 240-69073-1

Date Collected: 09/02/16 09:00 — **Matrix: Solid**
Date Received: 09/03/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	245784	09/07/16 10:11	JMB	TAL CAN

Client Sample ID: C-7878-090216-SSH-6125 — Lab Sample ID: 240-69073-1

Date Collected: 09/02/16 09:00 — **Matrix: Solid**
Date Received: 09/03/16 09:30 — **Percent Solids: 96.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			245691	09/06/16 10:00	DRJ	TAL CAN
Total/NA	Prep	3540C			245742	09/07/16 08:04	DT	TAL CAN
Total/NA	Analysis	8082		5	246052	09/08/16 21:07	LSH	TAL CAN

Client Sample ID: C-7878-090216-SSH-6115 — Lab Sample ID: 240-69073-2

Date Collected: 09/02/16 09:10 — **Matrix: Solid**
Date Received: 09/03/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	245784	09/07/16 10:11	JMB	TAL CAN

Client Sample ID: C-7878-090216-SSH-6115 — Lab Sample ID: 240-69073-2

Date Collected: 09/02/16 09:10 — **Matrix: Solid**
Date Received: 09/03/16 09:30 — **Percent Solids: 96.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			245691	09/06/16 10:00	DRJ	TAL CAN
Total/NA	Prep	3540C			245742	09/07/16 08:04	DT	TAL CAN
Total/NA	Analysis	8082		1	246052	09/08/16 21:26	LSH	TAL CAN

Client Sample ID: C-7878-090216-SSH-6114 — Lab Sample ID: 240-69073-3

Date Collected: 09/02/16 09:20 — **Matrix: Solid**
Date Received: 09/03/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	245784	09/07/16 10:11	JMB	TAL CAN

Client Sample ID: C-7878-090216-SSH-6114 — Lab Sample ID: 240-69073-3

Date Collected: 09/02/16 09:20 — **Matrix: Solid**
Date Received: 09/03/16 09:30 — **Percent Solids: 94.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			245691	09/06/16 10:00	DRJ	TAL CAN
Total/NA	Prep	3540C			245742	09/07/16 08:04	DT	TAL CAN
Total/NA	Analysis	8082		50	246052	09/08/16 21:44	LSH	TAL CAN

Client Sample ID: C-7878-090216-SSH-6121 — **Lab Sample ID: 240-69073-4**
Date Collected: 09/02/16 09:30 — **Matrix: Solid**
Date Received: 09/03/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	245784	09/07/16 10:11	JMB	TAL CAN

Client Sample ID: C-7878-090216-SSH-6121 — **Lab Sample ID: 240-69073-4**
Date Collected: 09/02/16 09:30 — **Matrix: Solid**
Date Received: 09/03/16 09:30 — **Percent Solids: 96.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			245691	09/06/16 10:00	DRJ	TAL CAN
Total/NA	Prep	3540C			245742	09/07/16 08:04	DT	TAL CAN
Total/NA	Analysis	8082		200	246052	09/08/16 22:02	LSH	TAL CAN

Client Sample ID: C-7878-090216-SSH-6118 — **Lab Sample ID: 240-69073-5**
Date Collected: 09/02/16 12:30 — **Matrix: Solid**
Date Received: 09/03/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	245784	09/07/16 10:11	JMB	TAL CAN

Client Sample ID: C-7878-090216-SSH-6118 — **Lab Sample ID: 240-69073-5**
Date Collected: 09/02/16 12:30 — **Matrix: Solid**
Date Received: 09/03/16 09:30 — **Percent Solids: 95.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			245691	09/06/16 10:00	DRJ	TAL CAN
Total/NA	Prep	3540C			245742	09/07/16 08:04	DT	TAL CAN
Total/NA	Analysis	8082		500	246052	09/08/16 22:21	LSH	TAL CAN

Client Sample ID: C-7878-090216-SSH-6117 — **Lab Sample ID: 240-69073-6**
Date Collected: 09/02/16 12:40 — **Matrix: Solid**
Date Received: 09/03/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	245784	09/07/16 10:11	JMB	TAL CAN

Client Sample ID: C-7878-090216-SSH-6117 — **Lab Sample ID: 240-69073-6**
Date Collected: 09/02/16 12:40 — **Matrix: Solid**
Date Received: 09/03/16 09:30 — **Percent Solids: 95.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			245691	09/06/16 10:00	DRJ	TAL CAN
Total/NA	Prep	3540C			245742	09/07/16 08:04	DT	TAL CAN
Total/NA	Analysis	8082		100	246052	09/08/16 22:39	LSH	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69073-1

Client Sample ID: C-7878-090216-SSH-6110 — **Lab Sample ID: 240-69073-7**
Date Collected: 09/02/16 12:50 — **Matrix: Solid**
Date Received: 09/03/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	245784	09/07/16 10:11	JMB	TAL CAN

Client Sample ID: C-7878-090216-SSH-6110 — **Lab Sample ID: 240-69073-7**
Date Collected: 09/02/16 12:50 — **Matrix: Solid**
Date Received: 09/03/16 09:30 — **Percent Solids: 95.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			245691	09/06/16 10:00	DRJ	TAL CAN
Total/NA	Prep	3540C			245742	09/07/16 08:04	DT	TAL CAN
Total/NA	Analysis	8082		10	246052	09/08/16 22:58	LSH	TAL CAN

Laboratory References:

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

Certification Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69073-1

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 (WW)	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	09-14-16 *
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 Michigan
10448 Citation Drive
Suite 200
Brighton, MI 48116
Phone: 810.229.2763 Fax:

2.6/C3.0

Chain of Custody Record

163309

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other:

Client Contact	Project Manager: M. Tomka	Site Contact: JE Pardys	Date: 9/2/16	COC No: 163309
Company Name: GHD	Tel/Fax: 519 884 0510	Lab Contact: D. Hulett	Carrier: FedEx	1 of 1 COCs
Address: 14496 N. Sheldon Rd Ste 200	Analysis Turnaround Time			Sampler: S. Hovemeyer
City/State/Zip: Plymouth, MI 48170	☒ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 734 453 5123	TAT if different from Below 5 days			Walk-in Client:
Fax:	☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day			Lab Sampling:
Project Name: RacoTrust SMI				Job / SDG No.:
Site: SSOW 7878-T01-012				
P O #				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PLBs	Sample Specific Notes:
C-7878-090216-SSH-6125	9/2/16	0900	G	C	1	N	N	X	
-6115		0910	G	C	1	N	N	X	
-6114		0920	G	C	1	N	N	X	
-6121		0930	G	C	1	N	N	X	
-6118		1230	G	C	1	N	N	X	
-6117		1240	G	C	1	N	N	X	
C-7878-090216-SSH-6110		1250	G	C	1	N	N	X	
SSH									



Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1

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.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: 542775 | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ | Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	GHD	9/2/16 1800	Ryan Henderson	TA	9-3-16 9:30
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

9/12/2016

TestAmerica Canton Sample Receipt Form/Narrative **Login # : 69073**
Canton Facility

Client GHD Site Name _____ Cooler unpacked by: Ryan Henderson

Cooler Received on 9-3-16 Opened on 9-3-16

FedEx: 1st Grd (Exp) UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # _____ Foam Box (Client Cooler) Box Other _____

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other _____

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR ~~GUN# IR-8~~ (CF +0.4 °C) Observed Cooler Temp. 2.6 °C Corrected Cooler Temp. 3.0 °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 1	(Yes)	No
-Were custody seals on the outside of the cooler(s) signed & dated?	(Yes)	No NA
-Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	(No)
3. Shippers' packing slip attached to the cooler(s)?	(Yes)	No
4. Did custody papers accompany the sample(s)?	(Yes)	No
5. Were the custody papers relinquished & signed in the appropriate place?	(Yes)	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	(Yes)	No
7. Did all bottles arrive in good condition (Unbroken)?	(Yes)	No
8. Could all bottle labels be reconciled with the COC?	(Yes)	No
9. Were correct bottle(s) used for the test(s) indicated?	(Yes)	No
10. Sufficient quantity received to perform indicated analyses?	(Yes)	No
11. Are these work share samples?	Yes	(No)
If yes, Questions 11-15 have been checked at the originating laboratory.		
11. Were sample(s) at the correct pH upon receipt?	Yes No	(NA) pH Strip Lot# **HC574756**
12. Were VOAs on the COC?	Yes	(No)
13. Were air bubbles >6 mm in any VOA vials?	Yes No	(NA)
14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____	Yes	(No)
15. Was a LL Hg or Me Hg trip blank present? _____	Yes	(No)

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by:

Samples 6125, 6119, 6118, 6110 received with cooler water in bags, bags leaking.

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

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: 240-69135-1
Client Project/Site: 7878, RACER SMI

For:
GHD Services Inc.
14496 Sheldon Road, Suite 200
Plymouth, Michigan 48170

Attn: Rawa Fleisher

Denise D Heckler

Authorized for release by:
9/14/2016 7:39:53 AM

Denise Heckler, Project Manager II
(330)966-9477
denise.heckler@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: 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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Job ID: 240-69135-1

Laboratory: TestAmerica Canton

Narrative

Job Narrative
240-69135-1

Comments
No additional comments.

Receipt
The samples were received on 9/7/2016 9:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.4° C.

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

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

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

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69135-1

Qualifiers

GC Semi VOA

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.
¤	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)

Sample Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69135-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-69135-1	C-7878-090616-SSH-6126	Solid	09/06/16 10:20	09/07/16 09:40

Detection Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69135-1

Client Sample ID: C-7878-090616-SSH-6126 — Lab Sample ID: 240-69135-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	18000		2000	560	ug/Kg	20	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69135-1

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
Moisture	Percent Moisture	EPA	TAL CAN

Protocol References:

EPA = US Environmental Protection Agency

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

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-090616-SSH-6126
Date Collected: 09/06/16 10:20
Date Received: 09/07/16 09:40

Lab Sample ID: 240-69135-1
Matrix: Solid
Percent Solids: 98.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2000	U	2000	960	ug/Kg	☼	09/08/16 08:54	09/12/16 16:50	20
Aroclor-1221	2000	U	2000	920	ug/Kg	☼	09/08/16 08:54	09/12/16 16:50	20
Aroclor-1232	2000	U	2000	640	ug/Kg	☼	09/08/16 08:54	09/12/16 16:50	20
Aroclor-1242	2000	U	2000	800	ug/Kg	☼	09/08/16 08:54	09/12/16 16:50	20
Aroclor-1248	2000	U	2000	680	ug/Kg	☼	09/08/16 08:54	09/12/16 16:50	20
Aroclor-1254	**18000**		2000	560	ug/Kg	☼	09/08/16 08:54	09/12/16 16:50	20
Aroclor-1260	2000	U	2000	720	ug/Kg	☼	09/08/16 08:54	09/12/16 16:50	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*14 - 128*	*09/08/16 08:54*	*09/12/16 16:50*	*20*
DCB Decachlorobiphenyl	*49*		*10 - 132*	*09/08/16 08:54*	*09/12/16 16:50*	*20*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69135-1

General Chemistry

Client Sample ID: C-7878-090616-SSH-6126
Date Collected: 09/06/16 10:20
Date Received: 09/07/16 09:40

Lab Sample ID: 240-69135-1
Matrix: Solid
Percent Solids: 98.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	98.4		0.1	0.1	%			09/07/16 16:33	1
Percent Moisture	1.6		0.1	0.1	%			09/07/16 16:33	1

QC Association Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69135-1

GC Semi VOA

Prep Batch: 245947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-69135-1	C-7878-090616-SSH-6126	Total/NA	Solid	3540C	
MB 240-245947/7-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-245947/8-A	Lab Control Sample	Total/NA	Solid	3540C	

Analysis Batch: 246331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-69135-1	C-7878-090616-SSH-6126	Total/NA	Solid	8082	245947
MB 240-245947/7-A	Method Blank	Total/NA	Solid	8082	245947
LCS 240-245947/8-A	Lab Control Sample	Total/NA	Solid	8082	245947

General Chemistry

Analysis Batch: 245784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-69135-1	C-7878-090616-SSH-6126	Total/NA	Solid	Moisture	

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-245947/7-A
Matrix: Solid
Analysis Batch: 246331

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 245947

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	100	U	100	48	ug/Kg		09/08/16 08:54	09/12/16 20:57	1
Aroclor-1221	100	U	100	46	ug/Kg		09/08/16 08:54	09/12/16 20:57	1
Aroclor-1232	100	U	100	32	ug/Kg		09/08/16 08:54	09/12/16 20:57	1
Aroclor-1242	100	U	100	40	ug/Kg		09/08/16 08:54	09/12/16 20:57	1
Aroclor-1248	100	U	100	34	ug/Kg		09/08/16 08:54	09/12/16 20:57	1
Aroclor-1254	100	U	100	28	ug/Kg		09/08/16 08:54	09/12/16 20:57	1
Aroclor-1260	100	U	100	36	ug/Kg		09/08/16 08:54	09/12/16 20:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*14 - 128*	*09/08/16 08:54*	*09/12/16 20:57*	*1*
DCB Decachlorobiphenyl	*56*		*10 - 132*	*09/08/16 08:54*	*09/12/16 20:57*	*1*

Lab Sample ID: LCS 240-245947/8-A
Matrix: Solid
Analysis Batch: 246331

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 245947

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	2000	1170		ug/Kg		59	47 - 120
Aroclor-1260	2000	1190		ug/Kg		59	46 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*64*		*14 - 128*
DCB Decachlorobiphenyl	*56*		*10 - 132*

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69135-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	TCX2 (14-128)	DCB2 (10-132)								
240-69135-1	C-7878-090616-SSH-6126	72	49								
LCS 240-245947/8-A	Lab Control Sample	64	56								
MB 240-245947/7-A	Method Blank	80	56								

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69135-1

Client Sample ID: C-7878-090616-SSH-6126 — **Lab Sample ID: 240-69135-1**
Date Collected: 09/06/16 10:20 — **Matrix: Solid**
Date Received: 09/07/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	245784	09/07/16 16:33	JMB	TAL CAN

Client Sample ID: C-7878-090616-SSH-6126 — **Lab Sample ID: 240-69135-1**
Date Collected: 09/06/16 10:20 — **Matrix: Solid**
Date Received: 09/07/16 09:40 — **Percent Solids: 98.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			245947	09/08/16 08:54	SDE	TAL CAN
Total/NA	Analysis	8082		20	246331	09/12/16 16:50	KMG	TAL CAN

Laboratory References:

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

Certification Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69135-1

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 (WW)	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	09-14-16 *
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 Michigan
10448 Citation Drive
Suite 200
Brighton, MI 48116
Phone: 810.229.2763 Fax:

2.0/2.4

Chain of Custody Record

163311

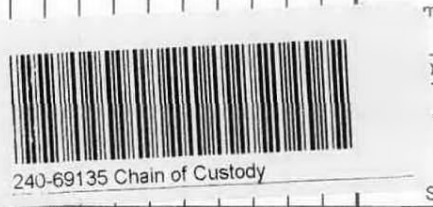
TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other:

Client Contact	Project Manager: M. Tomka	Site Contact: JE Pardys	Date: 9/6/16	COC No: 163311
Company Name: GHD	Tel/Fax: 519 884 0510	Lab Contact: D. Heimbigner	Carrier: FedEx	1 of 1 COCs
Address: 14496 N. Sheldon Rd Ste 200	Analysis Turnaround Time			Sampler: S. Hoffmeyer
City/State/Zip: Plymouth MI 48170	☒ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 734 453 5123	TAT if different from Below 5 days			Walk-in Client:
Fax:	☐ 2 weeks			Sampling:
Project Name: RacerTrust SMI	☐ 1 week			
Site: SSOW 7B78-T01-D12	☐ 2 days			QG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs	Sample Specific Notes:
L-7878-090616-SSH-6126	9/6/16	1020	G	L	1	N	N	X	
-6127		1030	G	L	1	N	N	X	
-6111		1040	G	L	1	N	N	X	
-6113		1050	G	L	1	N	N	X	
-6109		1100	G	L	1	N	N	X	
-6112		1110	G	L	1	N	N	X	
-6128		1120	G	L	1	N	N	X	
-6116		1130	G	L	1	N	N	X	
-6119		1140	G	L	1	N	N	X	
-6120		1150	G	L	1	N	N	X	
-6123		1200	G	L	1	N	N	X	
L-7878-090616-SSH-6124		1210	G	L	1	N	N	X	

HOLD per GHD



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.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:
L-7878-090616-SSH-6122 | 9/6/16 | 1220 | G | L | 1 | PCBs "Please include sample"

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.: 553749	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____	Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	GHD	9/6/16 1800			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: [signature]	Company: TAL Canton	Date/Time: 9/7/16 9:40

TestAmerica Canton Sample Receipt Form/Narrative **Login # : 69135**

Canton Facility

Client GHD Site Name

Cooler Received on 9/7/16 Opened on 9/7/16

Cooler unpacked by:

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

TestAmerica Cooler # Foam Box Client Cooler Box Other

Packing material used: Bubble Wrap Foam Plastic Bag None Other

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN# IR-8 (CF +0.4 °C) Observed Cooler Temp. 2.0 °C Corrected Cooler Temp 2.4 °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 1	Yes	No
-Were custody seals on the outside of the cooler(s) signed & dated?	Yes	No NA
-Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	No
3. Shippers' packing slip attached to the cooler(s)?	Yes	No
4. Did custody papers accompany the sample(s)?	Yes	No
5. Were the custody papers relinquished & signed in the appropriate place?	Yes	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	No
7. Did all bottles arrive in good condition (Unbroken)?	Yes	No
8. Could all bottle labels be reconciled with the COC?	Yes	No
9. Were correct bottle(s) used for the test(s) indicated?	Yes	No
10. Sufficient quantity received to perform indicated analyses?	Yes	No
11. Are these work share samples?	Yes	No
If yes, Questions 11-15 have been checked at the originating laboratory.		
11. Were sample(s) at the correct pH upon receipt?	Yes No	NA pH Strip Lot# HC574756
12. Were VOAs on the COC?	Yes	No
13. Were air bubbles >6 mm in any VOA vials?	Yes No	NA
14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #	Yes	No
15. Was a LL Hg or Me Hg trip blank present?	Yes	No

Contacted PM Date by via Verbal Voice Mail Other

Concerning

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

15. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.

Sample(s) were received in a broken container.

Sample(s) were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory.

Time preserved: Preservative(s) added/Lot number(s):

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: 240-69135-3
Client Project/Site: 7878, RACER SMI

For:
GHD Services Inc.
14496 Sheldon Road, Suite 200
Plymouth, Michigan 48170

Attn: Rawa Fleisher

Denise D Heckler

Authorized for release by:
9/16/2016 2:07:08 PM

Denise Heckler, Project Manager II
(330)966-9477
denise.heckler@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: 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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Job ID: 240-69135-3

Laboratory: TestAmerica Canton

Narrative

Job Narrative
240-69135-3

Comments
Select samples were taken off hold for PCB analysis on September 12, 2016.

Receipt
The samples were received on 9/7/2016 9:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.4° C.

GC Semi VOA
Method(s) 8082: Two surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: (LCS 240-246471/20-A). These results have been reported and qualified.

Method(s) 8082: The following samples 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: C-7878-090616-SSH-6124 (240-69135-12) and C-7878-090616-SSH-6122 (240-69135-13). Due to the poor match with the Aroclor standards, there is increased qualitative and quantitative uncertainty associated with this result.

Method(s) 8082: Two surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: (LCS 240-246669/6-A). These results have been reported and qualified.

Method(s) 8082: The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: C-7878-090616-SSH-6124 (240-69135-12), C-7878-090616-SSH-6122 (240-69135-13), (240-69135-A-12-C MS) and (240-69135-A-12-D MSD). 2688696, 2103098, 2283705.

Method(s) 8082: The following samples appear 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: C-7878-090616-SSH-6113 (240-69135-4), C-7878-090616-SSH-6109 (240-69135-5), C-7878-090616-SSH-6128 (240-69135-7), C-7878-090616-SSH-6116 (240-69135-8), C-7878-090616-SSH-6120 (240-69135-10) and C-7878-090616-SSH-6123 (240-69135-11). 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.

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

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

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
X	Surrogate is outside control limits
F1	MS and/or MSD Recovery 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.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

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
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)

Sample Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69135-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-69135-4	C-7878-090616-SSH-6113	Solid	09/06/16 10:50	09/07/16 09:40
240-69135-5	C-7878-090616-SSH-6109	Solid	09/06/16 11:00	09/07/16 09:40
240-69135-7	C-7878-090616-SSH-6128	Solid	09/06/16 11:20	09/07/16 09:40
240-69135-8	C-7878-090616-SSH-6116	Solid	09/06/16 11:30	09/07/16 09:40
240-69135-10	C-7878-090616-SSH-6120	Solid	09/06/16 11:50	09/07/16 09:40
240-69135-11	C-7878-090616-SSH-6123	Solid	09/06/16 12:00	09/07/16 09:40
240-69135-12	C-7878-090616-SSH-6124	Solid	09/06/16 12:10	09/07/16 09:40
240-69135-13	C-7878-090616-SSH-6122	Solid	09/06/16 12:20	09/07/16 09:40

Detection Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69135-3

Client Sample ID: C-7878-090616-SSH-6113 — Lab Sample ID: 240-69135-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	7600		1000	280	ug/Kg	10	☼	8082	Total/NA

Client Sample ID: C-7878-090616-SSH-6109 — Lab Sample ID: 240-69135-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	1700		100	28	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: C-7878-090616-SSH-6128 — Lab Sample ID: 240-69135-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	330000		50000	14000	ug/Kg	500	☼	8082	Total/NA

Client Sample ID: C-7878-090616-SSH-6116 — Lab Sample ID: 240-69135-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	590000		99000	28000	ug/Kg	1000	☼	8082	Total/NA

Client Sample ID: C-7878-090616-SSH-6120 — Lab Sample ID: 240-69135-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	8100000		1000000	280000	ug/Kg	10000	☼	8082	Total/NA

Client Sample ID: C-7878-090616-SSH-6123 — Lab Sample ID: 240-69135-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	73000		5200	1400	ug/Kg	50	☼	8082	Total/NA

Client Sample ID: C-7878-090616-SSH-6124 — Lab Sample ID: 240-69135-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	20000		2000	560	ug/Kg	20	☼	8082	Total/NA

Client Sample ID: C-7878-090616-SSH-6122 — Lab Sample ID: 240-69135-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	9000		980	280	ug/Kg	10	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69135-3

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
Moisture	Percent Moisture	EPA	TAL CAN

Protocol References:

EPA = US Environmental Protection Agency

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

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69135-3

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-090616-SSH-6113
Date Collected: 09/06/16 10:50
Date Received: 09/07/16 09:40

Lab Sample ID: 240-69135-4
Matrix: Solid
Percent Solids: 97.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	1000	U	1000	480	ug/Kg	☼	09/13/16 07:59	09/15/16 12:33	10
Aroclor-1221	1000	U	1000	460	ug/Kg	☼	09/13/16 07:59	09/15/16 12:33	10
Aroclor-1232	1000	U	1000	320	ug/Kg	☼	09/13/16 07:59	09/15/16 12:33	10
Aroclor-1242	1000	U	1000	400	ug/Kg	☼	09/13/16 07:59	09/15/16 12:33	10
Aroclor-1248	1000	U	1000	340	ug/Kg	☼	09/13/16 07:59	09/15/16 12:33	10
Aroclor-1254	**7600**		1000	280	ug/Kg	☼	09/13/16 07:59	09/15/16 12:33	10
Aroclor-1260	1000	U	1000	360	ug/Kg	☼	09/13/16 07:59	09/15/16 12:33	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*88*		*14 - 128*	*09/13/16 07:59*	*09/15/16 12:33*	*10*
DCB Decachlorobiphenyl	*80*		*10 - 132*	*09/13/16 07:59*	*09/15/16 12:33*	*10*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69135-3

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-090616-SSH-6109
Date Collected: 09/06/16 11:00
Date Received: 09/07/16 09:40

Lab Sample ID: 240-69135-5
Matrix: Solid
Percent Solids: 97.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	100	U	100	48	ug/Kg	☼	09/13/16 07:59	09/15/16 12:52	1
Aroclor-1221	100	U	100	46	ug/Kg	☼	09/13/16 07:59	09/15/16 12:52	1
Aroclor-1232	100	U	100	32	ug/Kg	☼	09/13/16 07:59	09/15/16 12:52	1
Aroclor-1242	100	U	100	40	ug/Kg	☼	09/13/16 07:59	09/15/16 12:52	1
Aroclor-1248	100	U	100	34	ug/Kg	☼	09/13/16 07:59	09/15/16 12:52	1
Aroclor-1254	**1700**		100	28	ug/Kg	☼	09/13/16 07:59	09/15/16 12:52	1
Aroclor-1260	100	U	100	36	ug/Kg	☼	09/13/16 07:59	09/15/16 12:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*70*		*14 - 128*	*09/13/16 07:59*	*09/15/16 12:52*	*1*
DCB Decachlorobiphenyl	*57*		*10 - 132*	*09/13/16 07:59*	*09/15/16 12:52*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69135-3

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-090616-SSH-6128
Date Collected: 09/06/16 11:20
Date Received: 09/07/16 09:40

Lab Sample ID: 240-69135-7
Matrix: Solid
Percent Solids: 97.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	50000	U	50000	24000	ug/Kg	☼	09/13/16 07:59	09/15/16 13:11	500
Aroclor-1221	50000	U	50000	23000	ug/Kg	☼	09/13/16 07:59	09/15/16 13:11	500
Aroclor-1232	50000	U	50000	16000	ug/Kg	☼	09/13/16 07:59	09/15/16 13:11	500
Aroclor-1242	50000	U	50000	20000	ug/Kg	☼	09/13/16 07:59	09/15/16 13:11	500
Aroclor-1248	50000	U	50000	17000	ug/Kg	☼	09/13/16 07:59	09/15/16 13:11	500
Aroclor-1254	**330000**		50000	14000	ug/Kg	☼	09/13/16 07:59	09/15/16 13:11	500
Aroclor-1260	50000	U	50000	18000	ug/Kg	☼	09/13/16 07:59	09/15/16 13:11	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*138*	*X*	*14 - 128*	*09/13/16 07:59*	*09/15/16 13:11*	*500*
DCB Decachlorobiphenyl	*260*	*X*	*10 - 132*	*09/13/16 07:59*	*09/15/16 13:11*	*500*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69135-3

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-090616-SSH-6116
Date Collected: 09/06/16 11:30
Date Received: 09/07/16 09:40

Lab Sample ID: 240-69135-8
Matrix: Solid
Percent Solids: 97.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	99000	U	99000	47000	ug/Kg	☼	09/13/16 07:59	09/15/16 13:30	1000
Aroclor-1221	99000	U	99000	45000	ug/Kg	☼	09/13/16 07:59	09/15/16 13:30	1000
Aroclor-1232	99000	U	99000	32000	ug/Kg	☼	09/13/16 07:59	09/15/16 13:30	1000
Aroclor-1242	99000	U	99000	40000	ug/Kg	☼	09/13/16 07:59	09/15/16 13:30	1000
Aroclor-1248	99000	U	99000	34000	ug/Kg	☼	09/13/16 07:59	09/15/16 13:30	1000
Aroclor-1254	**590000**		99000	28000	ug/Kg	☼	09/13/16 07:59	09/15/16 13:30	1000
Aroclor-1260	99000	U	99000	36000	ug/Kg	☼	09/13/16 07:59	09/15/16 13:30	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*346*	*X*	*14 - 128*	*09/13/16 07:59*	*09/15/16 13:30*	*1000*
DCB Decachlorobiphenyl	*116*		*10 - 132*	*09/13/16 07:59*	*09/15/16 13:30*	*1000*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69135-3

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-090616-SSH-6120
Date Collected: 09/06/16 11:50
Date Received: 09/07/16 09:40

Lab Sample ID: 240-69135-10
Matrix: Solid
Percent Solids: 98.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	1000000	U	1000000	490000	ug/Kg	☼	09/13/16 07:59	09/15/16 13:49	10000
Aroclor-1221	1000000	U	1000000	470000	ug/Kg	☼	09/13/16 07:59	09/15/16 13:49	10000
Aroclor-1232	1000000	U	1000000	320000	ug/Kg	☼	09/13/16 07:59	09/15/16 13:49	10000
Aroclor-1242	1000000	U	1000000	410000	ug/Kg	☼	09/13/16 07:59	09/15/16 13:49	10000
Aroclor-1248	1000000	U	1000000	340000	ug/Kg	☼	09/13/16 07:59	09/15/16 13:49	10000
Aroclor-1254	**8100000**		1000000	280000	ug/Kg	☼	09/13/16 07:59	09/15/16 13:49	10000
Aroclor-1260	1000000	U	1000000	370000	ug/Kg	☼	09/13/16 07:59	09/15/16 13:49	10000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*X*	*14 - 128*	*09/13/16 07:59*	*09/15/16 13:49*	*10000*
DCB Decachlorobiphenyl	*2060*	*X*	*10 - 132*	*09/13/16 07:59*	*09/15/16 13:49*	*10000*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69135-3

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-090616-SSH-6123
Date Collected: 09/06/16 12:00
Date Received: 09/07/16 09:40

Lab Sample ID: 240-69135-11
Matrix: Solid
Percent Solids: 93.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	5200	U	5200	2500	ug/Kg	☼	09/13/16 07:59	09/15/16 15:06	50
Aroclor-1221	5200	U	5200	2400	ug/Kg	☼	09/13/16 07:59	09/15/16 15:06	50
Aroclor-1232	5200	U	5200	1600	ug/Kg	☼	09/13/16 07:59	09/15/16 15:06	50
Aroclor-1242	5200	U	5200	2100	ug/Kg	☼	09/13/16 07:59	09/15/16 15:06	50
Aroclor-1248	5200	U	5200	1800	ug/Kg	☼	09/13/16 07:59	09/15/16 15:06	50
Aroclor-1254	**73000**		5200	1400	ug/Kg	☼	09/13/16 07:59	09/15/16 15:06	50
Aroclor-1260	5200	U	5200	1900	ug/Kg	☼	09/13/16 07:59	09/15/16 15:06	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*191*	*X*	*14 - 128*	*09/13/16 07:59*	*09/15/16 15:06*	*50*
DCB Decachlorobiphenyl	*186*	*X*	*10 - 132*	*09/13/16 07:59*	*09/15/16 15:06*	*50*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69135-3

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-090616-SSH-6124
Date Collected: 09/06/16 12:10
Date Received: 09/07/16 09:40

Lab Sample ID: 240-69135-12
Matrix: Solid
Percent Solids: 97.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2000	U F1	2000	970	ug/Kg	☼	09/14/16 07:51	09/15/16 19:23	20
Aroclor-1221	2000	U	2000	930	ug/Kg	☼	09/14/16 07:51	09/15/16 19:23	20
Aroclor-1232	2000	U	2000	640	ug/Kg	☼	09/14/16 07:51	09/15/16 19:23	20
Aroclor-1242	2000	U	2000	810	ug/Kg	☼	09/14/16 07:51	09/15/16 19:23	20
Aroclor-1248	2000	U	2000	680	ug/Kg	☼	09/14/16 07:51	09/15/16 19:23	20
Aroclor-1254	**20000**		2000	560	ug/Kg	☼	09/14/16 07:51	09/15/16 19:23	20
Aroclor-1260	2000	U F1	2000	720	ug/Kg	☼	09/14/16 07:51	09/15/16 19:23	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*54*		*14 - 128*	*09/14/16 07:51*	*09/15/16 19:23*	*20*
DCB Decachlorobiphenyl	*55*		*10 - 132*	*09/14/16 07:51*	*09/15/16 19:23*	*20*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69135-3

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-090616-SSH-6122
Date Collected: 09/06/16 12:20
Date Received: 09/07/16 09:40

Lab Sample ID: 240-69135-13
Matrix: Solid
Percent Solids: 97.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	980	U	980	470	ug/Kg	☼	09/14/16 07:51	09/15/16 20:17	10
Aroclor-1221	980	U	980	450	ug/Kg	☼	09/14/16 07:51	09/15/16 20:17	10
Aroclor-1232	980	U	980	320	ug/Kg	☼	09/14/16 07:51	09/15/16 20:17	10
Aroclor-1242	980	U	980	390	ug/Kg	☼	09/14/16 07:51	09/15/16 20:17	10
Aroclor-1248	980	U	980	330	ug/Kg	☼	09/14/16 07:51	09/15/16 20:17	10
Aroclor-1254	**9000**		980	280	ug/Kg	☼	09/14/16 07:51	09/15/16 20:17	10
Aroclor-1260	980	U	980	350	ug/Kg	☼	09/14/16 07:51	09/15/16 20:17	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*65*		*14 - 128*	*09/14/16 07:51*	*09/15/16 20:17*	*10*
DCB Decachlorobiphenyl	*63*		*10 - 132*	*09/14/16 07:51*	*09/15/16 20:17*	*10*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69135-3

General Chemistry

Client Sample ID: C-7878-090616-SSH-6113
Date Collected: 09/06/16 10:50
Date Received: 09/07/16 09:40

Lab Sample ID: 240-69135-4
Matrix: Solid
Percent Solids: 97.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97.8		0.1	0.1	%			09/07/16 16:39	1
Percent Moisture	2.2		0.1	0.1	%			09/07/16 16:39	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69135-3

General Chemistry

Client Sample ID: C-7878-090616-SSH-6109
Date Collected: 09/06/16 11:00
Date Received: 09/07/16 09:40

Lab Sample ID: 240-69135-5
Matrix: Solid
Percent Solids: 97.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97.8		0.1	0.1	%			09/07/16 16:39	1
Percent Moisture	2.2		0.1	0.1	%			09/07/16 16:39	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69135-3

General Chemistry

Client Sample ID: C-7878-090616-SSH-6128
Date Collected: 09/06/16 11:20
Date Received: 09/07/16 09:40

Lab Sample ID: 240-69135-7
Matrix: Solid
Percent Solids: 97.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97.2		0.1	0.1	%			09/07/16 16:39	1
Percent Moisture	2.8		0.1	0.1	%			09/07/16 16:39	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69135-3

General Chemistry

Client Sample ID: C-7878-090616-SSH-6116
Date Collected: 09/06/16 11:30
Date Received: 09/07/16 09:40

Lab Sample ID: 240-69135-8
Matrix: Solid
Percent Solids: 97.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97.4		0.1	0.1	%			09/07/16 16:39	1
Percent Moisture	2.6		0.1	0.1	%			09/07/16 16:39	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69135-3

General Chemistry

Client Sample ID: C-7878-090616-SSH-6120
Date Collected: 09/06/16 11:50
Date Received: 09/07/16 09:40

Lab Sample ID: 240-69135-10
Matrix: Solid
Percent Solids: 98.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	98.6		0.1	0.1	%			09/07/16 16:39	1
Percent Moisture	1.4		0.1	0.1	%			09/07/16 16:39	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69135-3

General Chemistry

Client Sample ID: C-7878-090616-SSH-6123
Date Collected: 09/06/16 12:00
Date Received: 09/07/16 09:40

Lab Sample ID: 240-69135-11
Matrix: Solid
Percent Solids: 93.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	93.3		0.1	0.1	%			09/07/16 16:39	1
Percent Moisture	6.7		0.1	0.1	%			09/07/16 16:39	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69135-3

General Chemistry

Client Sample ID: C-7878-090616-SSH-6124
Date Collected: 09/06/16 12:10
Date Received: 09/07/16 09:40

Lab Sample ID: 240-69135-12
Matrix: Solid
Percent Solids: 97.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97.6		0.1	0.1	%			09/14/16 09:14	1
Percent Moisture	2.4		0.1	0.1	%			09/14/16 09:14	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69135-3

General Chemistry

Client Sample ID: C-7878-090616-SSH-6122
Date Collected: 09/06/16 12:20
Date Received: 09/07/16 09:40

Lab Sample ID: 240-69135-13
Matrix: Solid
Percent Solids: 97.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97.9		0.1	0.1	%			09/14/16 09:14	1
Percent Moisture	2.1		0.1	0.1	%			09/14/16 09:14	1

GC Semi VOA

Prep Batch: 246471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-69135-4	C-7878-090616-SSH-6113	Total/NA	Solid	3540C	
240-69135-5	C-7878-090616-SSH-6109	Total/NA	Solid	3540C	
240-69135-7	C-7878-090616-SSH-6128	Total/NA	Solid	3540C	
240-69135-8	C-7878-090616-SSH-6116	Total/NA	Solid	3540C	
240-69135-10	C-7878-090616-SSH-6120	Total/NA	Solid	3540C	
240-69135-11	C-7878-090616-SSH-6123	Total/NA	Solid	3540C	
MB 240-246471/19-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-246471/20-A	Lab Control Sample	Total/NA	Solid	3540C	

Processed Batch: 246625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-69135-12	C-7878-090616-SSH-6124	Total/NA	Solid	Part Size Red	
240-69135-13	C-7878-090616-SSH-6122	Total/NA	Solid	Part Size Red	
240-69135-12 MS	C-7878-090616-SSH-6124	Total/NA	Solid	Part Size Red	
240-69135-12 MSD	C-7878-090616-SSH-6124	Total/NA	Solid	Part Size Red	

Prep Batch: 246669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-69135-12	C-7878-090616-SSH-6124	Total/NA	Solid	3540C	246625
240-69135-13	C-7878-090616-SSH-6122	Total/NA	Solid	3540C	246625
MB 240-246669/5-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-246669/6-A	Lab Control Sample	Total/NA	Solid	3540C	
240-69135-12 MS	C-7878-090616-SSH-6124	Total/NA	Solid	3540C	246625
240-69135-12 MSD	C-7878-090616-SSH-6124	Total/NA	Solid	3540C	246625

Analysis Batch: 246838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-69135-4	C-7878-090616-SSH-6113	Total/NA	Solid	8082	246471
240-69135-5	C-7878-090616-SSH-6109	Total/NA	Solid	8082	246471
240-69135-7	C-7878-090616-SSH-6128	Total/NA	Solid	8082	246471
240-69135-8	C-7878-090616-SSH-6116	Total/NA	Solid	8082	246471
240-69135-10	C-7878-090616-SSH-6120	Total/NA	Solid	8082	246471
240-69135-11	C-7878-090616-SSH-6123	Total/NA	Solid	8082	246471
MB 240-246471/19-A	Method Blank	Total/NA	Solid	8082	246471
LCS 240-246471/20-A	Lab Control Sample	Total/NA	Solid	8082	246471

Analysis Batch: 247023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-69135-12	C-7878-090616-SSH-6124	Total/NA	Solid	8082	246669
240-69135-13	C-7878-090616-SSH-6122	Total/NA	Solid	8082	246669
MB 240-246669/5-A	Method Blank	Total/NA	Solid	8082	246669
LCS 240-246669/6-A	Lab Control Sample	Total/NA	Solid	8082	246669
240-69135-12 MS	C-7878-090616-SSH-6124	Total/NA	Solid	8082	246669
240-69135-12 MSD	C-7878-090616-SSH-6124	Total/NA	Solid	8082	246669

General Chemistry

Analysis Batch: 245784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-69135-4	C-7878-090616-SSH-6113	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 245784 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-69135-5	C-7878-090616-SSH-6109	Total/NA	Solid	Moisture	
240-69135-7	C-7878-090616-SSH-6128	Total/NA	Solid	Moisture	
240-69135-8	C-7878-090616-SSH-6116	Total/NA	Solid	Moisture	
240-69135-10	C-7878-090616-SSH-6120	Total/NA	Solid	Moisture	
240-69135-11	C-7878-090616-SSH-6123	Total/NA	Solid	Moisture	

Processed Batch: 246625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-69135-12	C-7878-090616-SSH-6124	Total/NA	Solid	Part Size Red	
240-69135-13	C-7878-090616-SSH-6122	Total/NA	Solid	Part Size Red	

Analysis Batch: 246690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-69135-12	C-7878-090616-SSH-6124	Total/NA	Solid	Moisture	246625
240-69135-13	C-7878-090616-SSH-6122	Total/NA	Solid	Moisture	246625

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-246471/19-A
Matrix: Solid
Analysis Batch: 246838

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 246471

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	100	U	100	48	ug/Kg		09/13/16 08:02	09/15/16 08:44	1
Aroclor-1221	100	U	100	46	ug/Kg		09/13/16 08:02	09/15/16 08:44	1
Aroclor-1232	100	U	100	32	ug/Kg		09/13/16 08:02	09/15/16 08:44	1
Aroclor-1242	100	U	100	40	ug/Kg		09/13/16 08:02	09/15/16 08:44	1
Aroclor-1248	100	U	100	34	ug/Kg		09/13/16 08:02	09/15/16 08:44	1
Aroclor-1254	100	U	100	28	ug/Kg		09/13/16 08:02	09/15/16 08:44	1
Aroclor-1260	100	U	100	36	ug/Kg		09/13/16 08:02	09/15/16 08:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*14 - 128*	*09/13/16 08:02*	*09/15/16 08:44*	*1*
DCB Decachlorobiphenyl	*109*		*10 - 132*	*09/13/16 08:02*	*09/15/16 08:44*	*1*

Lab Sample ID: LCS 240-246471/20-A
Matrix: Solid
Analysis Batch: 246838

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 246471

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	2000	1790		ug/Kg		90	47 - 120
Aroclor-1260	2000	1830		ug/Kg		92	46 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*139*	*X*	*14 - 128*
DCB Decachlorobiphenyl	*89*		*10 - 132*

Lab Sample ID: MB 240-246669/5-A
Matrix: Solid
Analysis Batch: 247023

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 246669

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	100	U	100	48	ug/Kg		09/14/16 07:51	09/15/16 20:36	1
Aroclor-1221	100	U	100	46	ug/Kg		09/14/16 07:51	09/15/16 20:36	1
Aroclor-1232	100	U	100	32	ug/Kg		09/14/16 07:51	09/15/16 20:36	1
Aroclor-1242	100	U	100	40	ug/Kg		09/14/16 07:51	09/15/16 20:36	1
Aroclor-1248	100	U	100	34	ug/Kg		09/14/16 07:51	09/15/16 20:36	1
Aroclor-1254	100	U	100	28	ug/Kg		09/14/16 07:51	09/15/16 20:36	1
Aroclor-1260	100	U	100	36	ug/Kg		09/14/16 07:51	09/15/16 20:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*97*		*14 - 128*	*09/14/16 07:51*	*09/15/16 20:36*	*1*
DCB Decachlorobiphenyl	*66*		*10 - 132*	*09/14/16 07:51*	*09/15/16 20:36*	*1*

Lab Sample ID: LCS 240-246669/6-A
Matrix: Solid
Analysis Batch: 247023

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 246669

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	2000	1120		ug/Kg		56	47 - 120

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 240-246669/6-A
Matrix: Solid
Analysis Batch: 247023

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 246669

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor-1260			2000	1130		ug/Kg		56	46 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*179*	*X*	*14 - 128*
DCB Decachlorobiphenyl	*58*		*10 - 132*

Lab Sample ID: 240-69135-12 MS
Matrix: Solid
Analysis Batch: 247023

Client Sample ID: C-7878-090616-SSH-6124
Prep Type: Total/NA
Prep Batch: 246669

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor-1016	2000	U F1	2050	2000	U F1	ug/Kg	☼	0	31 - 120		
Aroclor-1260	2000	U F1	2050	15200	F1	ug/Kg	☼	745	21 - 122		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*48*		*14 - 128*
DCB Decachlorobiphenyl	*47*		*10 - 132*

Lab Sample ID: 240-69135-12 MSD
Matrix: Solid
Analysis Batch: 247023

Client Sample ID: C-7878-090616-SSH-6124
Prep Type: Total/NA
Prep Batch: 246669

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor-1016	2000	U F1	2020	1000	J p	ug/Kg	☼	50	31 - 120	NC	30
Aroclor-1260	2000	U F1	2020	15400	F1	ug/Kg	☼	761	21 - 122	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*54*		*14 - 128*
DCB Decachlorobiphenyl	*54*		*10 - 132*

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69135-3

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX2 (14-128)	DCB2 (10-132)
240-69135-4	C-7878-090616-SSH-6113	88	80
240-69135-5	C-7878-090616-SSH-6109	70	57
240-69135-7	C-7878-090616-SSH-6128	138 X	260 X
240-69135-8	C-7878-090616-SSH-6116	346 X	116
240-69135-10	C-7878-090616-SSH-6120	0 X	2060 X
240-69135-11	C-7878-090616-SSH-6123	191 X	186 X
240-69135-12	C-7878-090616-SSH-6124	54	55
240-69135-12 MS	C-7878-090616-SSH-6124	48	47
240-69135-12 MSD	C-7878-090616-SSH-6124	54	54
240-69135-13	C-7878-090616-SSH-6122	65	63
LCS 240-246471/20-A	Lab Control Sample	139 X	89
LCS 240-246669/6-A	Lab Control Sample	179 X	58
MB 240-246471/19-A	Method Blank	74	109
MB 240-246669/5-A	Method Blank	97	66

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69135-3

Client Sample ID: C-7878-090616-SSH-6113
Lab Sample ID: 240-69135-4
Date Collected: 09/06/16 10:50
Matrix: Solid
Date Received: 09/07/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	245784	09/07/16 16:39	JMB	TAL CAN

Client Sample ID: C-7878-090616-SSH-6113
Lab Sample ID: 240-69135-4
Date Collected: 09/06/16 10:50
Matrix: Solid
Date Received: 09/07/16 09:40
Percent Solids: 97.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			246471	09/13/16 07:59	DT	TAL CAN
Total/NA	Analysis	8082		10	246838	09/15/16 12:33	LSH	TAL CAN

Client Sample ID: C-7878-090616-SSH-6109
Lab Sample ID: 240-69135-5
Date Collected: 09/06/16 11:00
Matrix: Solid
Date Received: 09/07/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	245784	09/07/16 16:39	JMB	TAL CAN

Client Sample ID: C-7878-090616-SSH-6109
Lab Sample ID: 240-69135-5
Date Collected: 09/06/16 11:00
Matrix: Solid
Date Received: 09/07/16 09:40
Percent Solids: 97.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			246471	09/13/16 07:59	DT	TAL CAN
Total/NA	Analysis	8082		1	246838	09/15/16 12:52	LSH	TAL CAN

Client Sample ID: C-7878-090616-SSH-6128
Lab Sample ID: 240-69135-7
Date Collected: 09/06/16 11:20
Matrix: Solid
Date Received: 09/07/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	245784	09/07/16 16:39	JMB	TAL CAN

Client Sample ID: C-7878-090616-SSH-6128
Lab Sample ID: 240-69135-7
Date Collected: 09/06/16 11:20
Matrix: Solid
Date Received: 09/07/16 09:40
Percent Solids: 97.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			246471	09/13/16 07:59	DT	TAL CAN
Total/NA	Analysis	8082		500	246838	09/15/16 13:11	LSH	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69135-3

Client Sample ID: C-7878-090616-SSH-6116 — **Lab Sample ID: 240-69135-8**
Date Collected: 09/06/16 11:30 — **Matrix: Solid**
Date Received: 09/07/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	245784	09/07/16 16:39	JMB	TAL CAN

Client Sample ID: C-7878-090616-SSH-6116 — **Lab Sample ID: 240-69135-8**
Date Collected: 09/06/16 11:30 — **Matrix: Solid**
Date Received: 09/07/16 09:40 — **Percent Solids: 97.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			246471	09/13/16 07:59	DT	TAL CAN
Total/NA	Analysis	8082		1000	246838	09/15/16 13:30	LSH	TAL CAN

Client Sample ID: C-7878-090616-SSH-6120 — **Lab Sample ID: 240-69135-10**
Date Collected: 09/06/16 11:50 — **Matrix: Solid**
Date Received: 09/07/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	245784	09/07/16 16:39	JMB	TAL CAN

Client Sample ID: C-7878-090616-SSH-6120 — **Lab Sample ID: 240-69135-10**
Date Collected: 09/06/16 11:50 — **Matrix: Solid**
Date Received: 09/07/16 09:40 — **Percent Solids: 98.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			246471	09/13/16 07:59	DT	TAL CAN
Total/NA	Analysis	8082		10000	246838	09/15/16 13:49	LSH	TAL CAN

Client Sample ID: C-7878-090616-SSH-6123 — **Lab Sample ID: 240-69135-11**
Date Collected: 09/06/16 12:00 — **Matrix: Solid**
Date Received: 09/07/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	245784	09/07/16 16:39	JMB	TAL CAN

Client Sample ID: C-7878-090616-SSH-6123 — **Lab Sample ID: 240-69135-11**
Date Collected: 09/06/16 12:00 — **Matrix: Solid**
Date Received: 09/07/16 09:40 — **Percent Solids: 93.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			246471	09/13/16 07:59	DT	TAL CAN
Total/NA	Analysis	8082		50	246838	09/15/16 15:06	LSH	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69135-3

Client Sample ID: C-7878-090616-SSH-6124
Lab Sample ID: 240-69135-12
Date Collected: 09/06/16 12:10
Matrix: Solid
Date Received: 09/07/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			246625	09/13/16 12:00	DRJ	TAL CAN
Total/NA	Analysis	Moisture		1	246690	09/14/16 09:14	DTN	TAL CAN

Client Sample ID: C-7878-090616-SSH-6124
Lab Sample ID: 240-69135-12
Date Collected: 09/06/16 12:10
Matrix: Solid
Date Received: 09/07/16 09:40
Percent Solids: 97.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			246625	09/13/16 12:00	DRJ	TAL CAN
Total/NA	Prep	3540C			246669	09/14/16 07:51	DT	TAL CAN
Total/NA	Analysis	8082		20	247023	09/15/16 19:23	CSC	TAL CAN

Client Sample ID: C-7878-090616-SSH-6122
Lab Sample ID: 240-69135-13
Date Collected: 09/06/16 12:20
Matrix: Solid
Date Received: 09/07/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			246625	09/13/16 12:00	DRJ	TAL CAN
Total/NA	Analysis	Moisture		1	246690	09/14/16 09:14	DTN	TAL CAN

Client Sample ID: C-7878-090616-SSH-6122
Lab Sample ID: 240-69135-13
Date Collected: 09/06/16 12:20
Matrix: Solid
Date Received: 09/07/16 09:40
Percent Solids: 97.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			246625	09/13/16 12:00	DRJ	TAL CAN
Total/NA	Prep	3540C			246669	09/14/16 07:51	DT	TAL CAN
Total/NA	Analysis	8082		10	247023	09/15/16 20:17	CSC	TAL CAN

Laboratory References:

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

Certification Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69135-3

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 (WW)	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	09-14-16 *
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 Michigan
10448 Citation Drive
Suite 200
Brighton, MI 48116
Phone: 810.229.2763 Fax:

2.0/2.4

Chain of Custody Record

163311

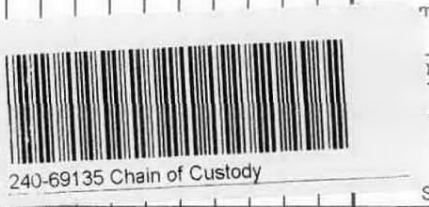
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TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other:

Client Contact	Project Manager: M. Tomka	Site Contact: JE Pardys	Date: 9/6/16	COC No: 163311
Company Name: GHD	Tel/Fax: 519 884 0510	Lab Contact: D. Heimbigner	Carrier: FedEx	1 of 1 COCs
Address: 14496 N. Sheldon Rd Ste 200	Analysis Turnaround Time			Sampler: S. Hoffmeyer
City/State/Zip: Plymouth MI 48170	☒ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 734 453 5123	TAT if different from Below 5 days			Walk-in Client:
Fax:	☐ 2 weeks			Sampling:
Project Name: RacerTrust SMI	☐ 1 week			
Site: SSOW 7B78-T01-D12	☐ 2 days			OG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs	Sample Specific Notes:
L-7B78-090616-SSH-6126	9/6/16	1020	G	L	1	N	N	X	
-6127		1030	G	L	1	N	N	X	
-6111		1040	G	L	1	N	N	X	
-6113		1050	G	L	1	N	N	X	
-6109		1100	G	L	1	N	N	X	
-6112		1110	G	L	1	N	N	X	
-6128		1120	G	L	1	N	N	X	
-6116		1130	G	L	1	N	N	X	
-6119		1140	G	L	1	N	N	X	
-6120		1150	G	L	1	N	N	X	
-6123		1200	G	L	1	N	N	X	
L-7B78-090616-SSH-6124		1210	G	L	1	N	N	X	

HOLD per GHD



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.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:
L-7B78-090616-SSH-6122 | 9/6/16 | 1220 | G | L | 1 | PCBs "Please include sample"

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.: 553749	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____	Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	GHD	9/6/16 1800			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: [signature]	Company: TAL Canton	Date/Time: 9/7/16 9:40

9/16/2016

TestAmerica Canton Sample Receipt Form/Narrative **Login # : 69135**

Canton Facility

Client GHD Site Name

Cooler Received on 9/7/16 Opened on 9/7/16

Cooler unpacked by:

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

TestAmerica Cooler # Foam Box Client Cooler Box Other

Packing material used: Bubble Wrap Foam Plastic Bag None Other

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN# IR-8 (CF +0.4 °C) Observed Cooler Temp. 2.0 °C Corrected Cooler Temp 2.4 °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 1	Yes	No
-Were custody seals on the outside of the cooler(s) signed & dated?	Yes	No NA
-Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	No
3. Shippers' packing slip attached to the cooler(s)?	Yes	No
4. Did custody papers accompany the sample(s)?	Yes	No
5. Were the custody papers relinquished & signed in the appropriate place?	Yes	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	No
7. Did all bottles arrive in good condition (Unbroken)?	Yes	No
8. Could all bottle labels be reconciled with the COC?	Yes	No
9. Were correct bottle(s) used for the test(s) indicated?	Yes	No
10. Sufficient quantity received to perform indicated analyses?	Yes	No
11. Are these work share samples?	Yes	No
If yes, Questions 11-15 have been checked at the originating laboratory.		
11. Were sample(s) at the correct pH upon receipt?	Yes No NA	pH Strip Lot# HC574756
12. Were VOAs on the COC?	Yes	No
13. Were air bubbles >6 mm in any VOA vials?	Yes No NA	
14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #	Yes	No
15. Was a LL Hg or Me Hg trip blank present?	Yes	No

Contacted PM Date by via Verbal Voice Mail Other

Concerning

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

15. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.

Sample(s) were received in a broken container.

Sample(s) were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory.

Time preserved: Preservative(s) added/Lot number(s):

TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-69503-1
Client Project/Site: 7878, RACER SMI

For:
GHD Services Inc.
14496 Sheldon Road, Suite 200
Plymouth, Michigan 48170

Attn: Rawa Fleisher

Denise D Heckler

Authorized for release by:
9/21/2016 8:30:44 AM

Denise Heckler, Project Manager II
(330)966-9477
denise.heckler@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: 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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Job ID: 240-69503-1

Laboratory: TestAmerica Canton

Narrative

Job Narrative
240-69503-1

Comments
No additional comments.

Receipt
The samples were received on 9/15/2016 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.0º C.

GC Semi VOA
Method(s) 8082: Two surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: (MB 240-247125/20-A). These results have been reported and qualified.

Method(s) 8082: The following samples appear 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: C-7878-091416-SSH-K16 (240-69503-1), C-7878-091416-SSH-K17 (240-69503-2), C-7878-091416-SSH-K18 (240-69503-3), C-7878-091416-SSH-K5 (240-69503-6), C-7878-091416-SSH-K6B (240-69503-9), C-7878-091416-SSH-K7B (240-69503-10), C-7878-091416-SSH-K11B (240-69503-13) and C-7878-091416-SSH-K12B (240-69503-14). Due to the poor match with the Aroclor standard, there is increased qualitative and quantitative uncertainty associated with this result.

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: C-7878-091416-SSH-K14B (240-69503-16). Due to the poor match with the Aroclor standards, 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.

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

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

Qualifiers

GC Semi 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.
X	Surrogate is outside control limits

General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit

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
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)

Sample Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69503-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-69503-1	C-7878-091416-SSH-K16	Solid	09/14/16 08:35	09/15/16 09:15
240-69503-2	C-7878-091416-SSH-K17	Solid	09/14/16 08:45	09/15/16 09:15
240-69503-3	C-7878-091416-SSH-K18	Solid	09/14/16 08:55	09/15/16 09:15
240-69503-4	C-7878-091416-SSH-K3	Solid	09/14/16 09:10	09/15/16 09:15
240-69503-5	C-7878-091416-SSH-K4	Solid	09/14/16 09:20	09/15/16 09:15
240-69503-6	C-7878-091416-SSH-K5	Solid	09/14/16 09:30	09/15/16 09:15
240-69503-7	C-7878-091416-SSH-6090B	Solid	09/14/16 09:45	09/15/16 09:15
240-69503-8	C-7878-091416-SSH-6093B	Solid	09/14/16 10:00	09/15/16 09:15
240-69503-9	C-7878-091416-SSH-K6B	Solid	09/14/16 10:15	09/15/16 09:15
240-69503-10	C-7878-091416-SSH-K7B	Solid	09/14/16 10:25	09/15/16 09:15
240-69503-11	C-7878-091416-SSH-K8B	Solid	09/14/16 10:35	09/15/16 09:15
240-69503-12	C-7878-091416-SSH-K10B	Solid	09/14/16 10:50	09/15/16 09:15
240-69503-13	C-7878-091416-SSH-K11B	Solid	09/14/16 11:05	09/15/16 09:15
240-69503-14	C-7878-091416-SSH-K12B	Solid	09/14/16 11:20	09/15/16 09:15
240-69503-15	C-7878-091416-SSH-K13B	Solid	09/14/16 11:35	09/15/16 09:15
240-69503-16	C-7878-091416-SSH-K14B	Solid	09/14/16 11:45	09/15/16 09:15
240-69503-17	C-7878-091416-SSH-K15B	Solid	09/14/16 11:55	09/15/16 09:15

Detection Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69503-1

Client Sample ID: C-7878-091416-SSH-K16 — Lab Sample ID: 240-69503-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	24000		2000	560	ug/Kg	20	☼	8082	Total/NA

Client Sample ID: C-7878-091416-SSH-K17 — Lab Sample ID: 240-69503-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	3800		500	140	ug/Kg	5	☼	8082	Total/NA

Client Sample ID: C-7878-091416-SSH-K18 — Lab Sample ID: 240-69503-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	10000		1000	280	ug/Kg	10	☼	8082	Total/NA

Client Sample ID: C-7878-091416-SSH-K3 — Lab Sample ID: 240-69503-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	5100		990	280	ug/Kg	10	☼	8082	Total/NA

Client Sample ID: C-7878-091416-SSH-K4 — Lab Sample ID: 240-69503-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	31000		4900	1400	ug/Kg	50	☼	8082	Total/NA

Client Sample ID: C-7878-091416-SSH-K5 — Lab Sample ID: 240-69503-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	33000		5000	1400	ug/Kg	50	☼	8082	Total/NA

Client Sample ID: C-7878-091416-SSH-6090B — Lab Sample ID: 240-69503-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	6400000		1000000	290000	ug/Kg	10000	☼	8082	Total/NA

Client Sample ID: C-7878-091416-SSH-6093B — Lab Sample ID: 240-69503-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	27000		5100	1400	ug/Kg	50	☼	8082	Total/NA

Client Sample ID: C-7878-091416-SSH-K6B — Lab Sample ID: 240-69503-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	880		100	29	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: C-7878-091416-SSH-K7B — Lab Sample ID: 240-69503-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	910		100	28	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: C-7878-091416-SSH-K8B — Lab Sample ID: 240-69503-11

This Detection Summary does not include radiochemical test results.

Client Sample ID: C-7878-091416-SSH-K8B (Continued) — Lab Sample ID: 240-69503-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	1200		110	30	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: C-7878-091416-SSH-K10B — Lab Sample ID: 240-69503-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	330		100	28	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: C-7878-091416-SSH-K11B — Lab Sample ID: 240-69503-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	2100		520	150	ug/Kg	5	☼	8082	Total/NA

Client Sample ID: C-7878-091416-SSH-K12B — Lab Sample ID: 240-69503-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	820		100	28	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: C-7878-091416-SSH-K13B — Lab Sample ID: 240-69503-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	360		100	28	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: C-7878-091416-SSH-K14B — Lab Sample ID: 240-69503-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	530		100	28	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: C-7878-091416-SSH-K15B — Lab Sample ID: 240-69503-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	100	J	110	30	ug/Kg	1	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69503-1

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
Moisture	Percent Moisture	EPA	TAL CAN

Protocol References:

EPA = US Environmental Protection Agency

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

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69503-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-091416-SSH-K16
Date Collected: 09/14/16 08:35
Date Received: 09/15/16 09:15

Lab Sample ID: 240-69503-1
Matrix: Solid
Percent Solids: 98.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2000	U	2000	950	ug/Kg	☼	09/16/16 09:43	09/19/16 16:00	20
Aroclor-1221	2000	U	2000	910	ug/Kg	☼	09/16/16 09:43	09/19/16 16:00	20
Aroclor-1232	2000	U	2000	640	ug/Kg	☼	09/16/16 09:43	09/19/16 16:00	20
Aroclor-1242	2000	U	2000	800	ug/Kg	☼	09/16/16 09:43	09/19/16 16:00	20
Aroclor-1248	2000	U	2000	680	ug/Kg	☼	09/16/16 09:43	09/19/16 16:00	20
Aroclor-1254	**24000**		2000	560	ug/Kg	☼	09/16/16 09:43	09/19/16 16:00	20
Aroclor-1260	2000	U	2000	720	ug/Kg	☼	09/16/16 09:43	09/19/16 16:00	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*69*		*14 - 128*	*09/16/16 09:43*	*09/19/16 16:00*	*20*
DCB Decachlorobiphenyl	*77*		*10 - 132*	*09/16/16 09:43*	*09/19/16 16:00*	*20*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69503-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-091416-SSH-K17
Date Collected: 09/14/16 08:45
Date Received: 09/15/16 09:15

Lab Sample ID: 240-69503-2
Matrix: Solid
Percent Solids: 97.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	500	U	500	240	ug/Kg	☼	09/16/16 09:43	09/19/16 16:18	5
Aroclor-1221	500	U	500	230	ug/Kg	☼	09/16/16 09:43	09/19/16 16:18	5
Aroclor-1232	500	U	500	160	ug/Kg	☼	09/16/16 09:43	09/19/16 16:18	5
Aroclor-1242	500	U	500	200	ug/Kg	☼	09/16/16 09:43	09/19/16 16:18	5
Aroclor-1248	500	U	500	170	ug/Kg	☼	09/16/16 09:43	09/19/16 16:18	5
Aroclor-1254	**3800**		500	140	ug/Kg	☼	09/16/16 09:43	09/19/16 16:18	5
Aroclor-1260	500	U	500	180	ug/Kg	☼	09/16/16 09:43	09/19/16 16:18	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*86*		*14 - 128*	*09/16/16 09:43*	*09/19/16 16:18*	*5*
DCB Decachlorobiphenyl	*95*		*10 - 132*	*09/16/16 09:43*	*09/19/16 16:18*	*5*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69503-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-091416-SSH-K18
Date Collected: 09/14/16 08:55
Date Received: 09/15/16 09:15

Lab Sample ID: 240-69503-3
Matrix: Solid
Percent Solids: 96.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	1000	U	1000	480	ug/Kg	☼	09/16/16 09:43	09/19/16 16:36	10
Aroclor-1221	1000	U	1000	460	ug/Kg	☼	09/16/16 09:43	09/19/16 16:36	10
Aroclor-1232	1000	U	1000	320	ug/Kg	☼	09/16/16 09:43	09/19/16 16:36	10
Aroclor-1242	1000	U	1000	400	ug/Kg	☼	09/16/16 09:43	09/19/16 16:36	10
Aroclor-1248	1000	U	1000	340	ug/Kg	☼	09/16/16 09:43	09/19/16 16:36	10
Aroclor-1254	**10000**		1000	280	ug/Kg	☼	09/16/16 09:43	09/19/16 16:36	10
Aroclor-1260	1000	U	1000	360	ug/Kg	☼	09/16/16 09:43	09/19/16 16:36	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*69*		*14 - 128*	*09/16/16 09:43*	*09/19/16 16:36*	*10*
DCB Decachlorobiphenyl	*72*		*10 - 132*	*09/16/16 09:43*	*09/19/16 16:36*	*10*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69503-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-091416-SSH-K3
Date Collected: 09/14/16 09:10
Date Received: 09/15/16 09:15

Lab Sample ID: 240-69503-4
Matrix: Solid
Percent Solids: 97.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	990	U	990	470	ug/Kg	☼	09/16/16 09:43	09/20/16 13:09	10
Aroclor-1221	990	U	990	450	ug/Kg	☼	09/16/16 09:43	09/20/16 13:09	10
Aroclor-1232	990	U	990	320	ug/Kg	☼	09/16/16 09:43	09/20/16 13:09	10
Aroclor-1242	990	U	990	390	ug/Kg	☼	09/16/16 09:43	09/20/16 13:09	10
Aroclor-1248	990	U	990	340	ug/Kg	☼	09/16/16 09:43	09/20/16 13:09	10
Aroclor-1254	**5100**		990	280	ug/Kg	☼	09/16/16 09:43	09/20/16 13:09	10
Aroclor-1260	990	U	990	360	ug/Kg	☼	09/16/16 09:43	09/20/16 13:09	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*82*		*14 - 128*	*09/16/16 09:43*	*09/20/16 13:09*	*10*
DCB Decachlorobiphenyl	*75*		*10 - 132*	*09/16/16 09:43*	*09/20/16 13:09*	*10*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69503-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-091416-SSH-K4
Date Collected: 09/14/16 09:20
Date Received: 09/15/16 09:15

Lab Sample ID: 240-69503-5
Matrix: Solid
Percent Solids: 98.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	4900	U	4900	2400	ug/Kg	☼	09/16/16 09:43	09/19/16 17:13	50
Aroclor-1221	4900	U	4900	2300	ug/Kg	☼	09/16/16 09:43	09/19/16 17:13	50
Aroclor-1232	4900	U	4900	1600	ug/Kg	☼	09/16/16 09:43	09/19/16 17:13	50
Aroclor-1242	4900	U	4900	2000	ug/Kg	☼	09/16/16 09:43	09/19/16 17:13	50
Aroclor-1248	4900	U	4900	1700	ug/Kg	☼	09/16/16 09:43	09/19/16 17:13	50
Aroclor-1254	**31000**		4900	1400	ug/Kg	☼	09/16/16 09:43	09/19/16 17:13	50
Aroclor-1260	4900	U	4900	1800	ug/Kg	☼	09/16/16 09:43	09/19/16 17:13	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*76*		*14 - 128*	*09/16/16 09:43*	*09/19/16 17:13*	*50*
DCB Decachlorobiphenyl	*91*		*10 - 132*	*09/16/16 09:43*	*09/19/16 17:13*	*50*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69503-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-091416-SSH-K5
Date Collected: 09/14/16 09:30
Date Received: 09/15/16 09:15

Lab Sample ID: 240-69503-6
Matrix: Solid
Percent Solids: 97.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	5000	U	5000	2400	ug/Kg	☼	09/16/16 09:43	09/19/16 17:31	50
Aroclor-1221	5000	U	5000	2300	ug/Kg	☼	09/16/16 09:43	09/19/16 17:31	50
Aroclor-1232	5000	U	5000	1600	ug/Kg	☼	09/16/16 09:43	09/19/16 17:31	50
Aroclor-1242	5000	U	5000	2000	ug/Kg	☼	09/16/16 09:43	09/19/16 17:31	50
Aroclor-1248	5000	U	5000	1700	ug/Kg	☼	09/16/16 09:43	09/19/16 17:31	50
Aroclor-1254	**33000**		5000	1400	ug/Kg	☼	09/16/16 09:43	09/19/16 17:31	50
Aroclor-1260	5000	U	5000	1800	ug/Kg	☼	09/16/16 09:43	09/19/16 17:31	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*65*		*14 - 128*	*09/16/16 09:43*	*09/19/16 17:31*	*50*
DCB Decachlorobiphenyl	*75*		*10 - 132*	*09/16/16 09:43*	*09/19/16 17:31*	*50*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69503-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-091416-SSH-6090B
Date Collected: 09/14/16 09:45
Date Received: 09/15/16 09:15

Lab Sample ID: 240-69503-7
Matrix: Solid
Percent Solids: 95.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	1000000	U	1000000	500000	ug/Kg	☼	09/16/16 09:43	09/19/16 17:49	10000
Aroclor-1221	1000000	U	1000000	480000	ug/Kg	☼	09/16/16 09:43	09/19/16 17:49	10000
Aroclor-1232	1000000	U	1000000	330000	ug/Kg	☼	09/16/16 09:43	09/19/16 17:49	10000
Aroclor-1242	1000000	U	1000000	420000	ug/Kg	☼	09/16/16 09:43	09/19/16 17:49	10000
Aroclor-1248	1000000	U	1000000	350000	ug/Kg	☼	09/16/16 09:43	09/19/16 17:49	10000
Aroclor-1254	**6400000**		1000000	290000	ug/Kg	☼	09/16/16 09:43	09/19/16 17:49	10000
Aroclor-1260	1000000	U	1000000	380000	ug/Kg	☼	09/16/16 09:43	09/19/16 17:49	10000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*X*	*14 - 128*	*09/16/16 09:43*	*09/19/16 17:49*	*10000*
DCB Decachlorobiphenyl	*0*	*X*	*10 - 132*	*09/16/16 09:43*	*09/19/16 17:49*	*10000*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69503-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-091416-SSH-6093B
Date Collected: 09/14/16 10:00
Date Received: 09/15/16 09:15

Lab Sample ID: 240-69503-8
Matrix: Solid
Percent Solids: 95.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	5100	U	5100	2400	ug/Kg	☼	09/16/16 09:43	09/19/16 18:08	50
Aroclor-1221	5100	U	5100	2300	ug/Kg	☼	09/16/16 09:43	09/19/16 18:08	50
Aroclor-1232	5100	U	5100	1600	ug/Kg	☼	09/16/16 09:43	09/19/16 18:08	50
Aroclor-1242	5100	U	5100	2000	ug/Kg	☼	09/16/16 09:43	09/19/16 18:08	50
Aroclor-1248	5100	U	5100	1700	ug/Kg	☼	09/16/16 09:43	09/19/16 18:08	50
Aroclor-1254	**27000**		5100	1400	ug/Kg	☼	09/16/16 09:43	09/19/16 18:08	50
Aroclor-1260	5100	U	5100	1800	ug/Kg	☼	09/16/16 09:43	09/19/16 18:08	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*14 - 128*	*09/16/16 09:43*	*09/19/16 18:08*	*50*
DCB Decachlorobiphenyl	*93*		*10 - 132*	*09/16/16 09:43*	*09/19/16 18:08*	*50*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69503-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-091416-SSH-K6B
Date Collected: 09/14/16 10:15
Date Received: 09/15/16 09:15

Lab Sample ID: 240-69503-9
Matrix: Solid
Percent Solids: 96.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	100	U	100	49	ug/Kg	☼	09/16/16 09:43	09/19/16 18:26	1
Aroclor-1221	100	U	100	47	ug/Kg	☼	09/16/16 09:43	09/19/16 18:26	1
Aroclor-1232	100	U	100	33	ug/Kg	☼	09/16/16 09:43	09/19/16 18:26	1
Aroclor-1242	100	U	100	41	ug/Kg	☼	09/16/16 09:43	09/19/16 18:26	1
Aroclor-1248	100	U	100	35	ug/Kg	☼	09/16/16 09:43	09/19/16 18:26	1
Aroclor-1254	**880**		100	29	ug/Kg	☼	09/16/16 09:43	09/19/16 18:26	1
Aroclor-1260	100	U	100	37	ug/Kg	☼	09/16/16 09:43	09/19/16 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*71*		*14 - 128*	*09/16/16 09:43*	*09/19/16 18:26*	*1*
DCB Decachlorobiphenyl	*65*		*10 - 132*	*09/16/16 09:43*	*09/19/16 18:26*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69503-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-091416-SSH-K7B
Date Collected: 09/14/16 10:25
Date Received: 09/15/16 09:15

Lab Sample ID: 240-69503-10
Matrix: Solid
Percent Solids: 95.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	100	U	100	48	ug/Kg	☼	09/16/16 09:43	09/19/16 18:44	1
Aroclor-1221	100	U	100	46	ug/Kg	☼	09/16/16 09:43	09/19/16 18:44	1
Aroclor-1232	100	U	100	32	ug/Kg	☼	09/16/16 09:43	09/19/16 18:44	1
Aroclor-1242	100	U	100	40	ug/Kg	☼	09/16/16 09:43	09/19/16 18:44	1
Aroclor-1248	100	U	100	34	ug/Kg	☼	09/16/16 09:43	09/19/16 18:44	1
Aroclor-1254	**910**		100	28	ug/Kg	☼	09/16/16 09:43	09/19/16 18:44	1
Aroclor-1260	100	U	100	36	ug/Kg	☼	09/16/16 09:43	09/19/16 18:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*58*		*14 - 128*	*09/16/16 09:43*	*09/19/16 18:44*	*1*
DCB Decachlorobiphenyl	*44*		*10 - 132*	*09/16/16 09:43*	*09/19/16 18:44*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69503-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-091416-SSH-K8B
Date Collected: 09/14/16 10:35
Date Received: 09/15/16 09:15

Lab Sample ID: 240-69503-11
Matrix: Solid
Percent Solids: 93.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	110	U	110	51	ug/Kg	☼	09/16/16 09:43	09/19/16 19:02	1
Aroclor-1221	110	U	110	49	ug/Kg	☼	09/16/16 09:43	09/19/16 19:02	1
Aroclor-1232	110	U	110	34	ug/Kg	☼	09/16/16 09:43	09/19/16 19:02	1
Aroclor-1242	110	U	110	42	ug/Kg	☼	09/16/16 09:43	09/19/16 19:02	1
Aroclor-1248	110	U	110	36	ug/Kg	☼	09/16/16 09:43	09/19/16 19:02	1
Aroclor-1254	**1200**		110	30	ug/Kg	☼	09/16/16 09:43	09/19/16 19:02	1
Aroclor-1260	110	U	110	38	ug/Kg	☼	09/16/16 09:43	09/19/16 19:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*54*		*14 - 128*	*09/16/16 09:43*	*09/19/16 19:02*	*1*
DCB Decachlorobiphenyl	*57*		*10 - 132*	*09/16/16 09:43*	*09/19/16 19:02*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69503-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-091416-SSH-K10B
Date Collected: 09/14/16 10:50
Date Received: 09/15/16 09:15

Lab Sample ID: 240-69503-12
Matrix: Solid
Percent Solids: 94.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	100	U	100	49	ug/Kg	☼	09/16/16 09:43	09/19/16 19:20	1
Aroclor-1221	100	U	100	47	ug/Kg	☼	09/16/16 09:43	09/19/16 19:20	1
Aroclor-1232	100	U	100	32	ug/Kg	☼	09/16/16 09:43	09/19/16 19:20	1
Aroclor-1242	100	U	100	41	ug/Kg	☼	09/16/16 09:43	09/19/16 19:20	1
Aroclor-1248	100	U	100	35	ug/Kg	☼	09/16/16 09:43	09/19/16 19:20	1
Aroclor-1254	**330**		100	28	ug/Kg	☼	09/16/16 09:43	09/19/16 19:20	1
Aroclor-1260	100	U	100	37	ug/Kg	☼	09/16/16 09:43	09/19/16 19:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*69*		*14 - 128*	*09/16/16 09:43*	*09/19/16 19:20*	*1*
DCB Decachlorobiphenyl	*68*		*10 - 132*	*09/16/16 09:43*	*09/19/16 19:20*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69503-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-091416-SSH-K11B
Date Collected: 09/14/16 11:05
Date Received: 09/15/16 09:15

Lab Sample ID: 240-69503-13
Matrix: Solid
Percent Solids: 92.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	520	U	520	250	ug/Kg	☼	09/16/16 09:43	09/19/16 19:39	5
Aroclor-1221	520	U	520	240	ug/Kg	☼	09/16/16 09:43	09/19/16 19:39	5
Aroclor-1232	520	U	520	170	ug/Kg	☼	09/16/16 09:43	09/19/16 19:39	5
Aroclor-1242	520	U	520	210	ug/Kg	☼	09/16/16 09:43	09/19/16 19:39	5
Aroclor-1248	520	U	520	180	ug/Kg	☼	09/16/16 09:43	09/19/16 19:39	5
Aroclor-1254	**2100**		520	150	ug/Kg	☼	09/16/16 09:43	09/19/16 19:39	5
Aroclor-1260	520	U	520	190	ug/Kg	☼	09/16/16 09:43	09/19/16 19:39	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*70*		*14 - 128*	*09/16/16 09:43*	*09/19/16 19:39*	*5*
DCB Decachlorobiphenyl	*86*		*10 - 132*	*09/16/16 09:43*	*09/19/16 19:39*	*5*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69503-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-091416-SSH-K12B
Date Collected: 09/14/16 11:20
Date Received: 09/15/16 09:15

Lab Sample ID: 240-69503-14
Matrix: Solid
Percent Solids: 96.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	100	U	100	48	ug/Kg	☼	09/16/16 09:43	09/19/16 19:57	1
Aroclor-1221	100	U	100	46	ug/Kg	☼	09/16/16 09:43	09/19/16 19:57	1
Aroclor-1232	100	U	100	32	ug/Kg	☼	09/16/16 09:43	09/19/16 19:57	1
Aroclor-1242	100	U	100	40	ug/Kg	☼	09/16/16 09:43	09/19/16 19:57	1
Aroclor-1248	100	U	100	34	ug/Kg	☼	09/16/16 09:43	09/19/16 19:57	1
Aroclor-1254	**820**		100	28	ug/Kg	☼	09/16/16 09:43	09/19/16 19:57	1
Aroclor-1260	100	U	100	36	ug/Kg	☼	09/16/16 09:43	09/19/16 19:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*14 - 128*	*09/16/16 09:43*	*09/19/16 19:57*	*1*
DCB Decachlorobiphenyl	*80*		*10 - 132*	*09/16/16 09:43*	*09/19/16 19:57*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69503-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-091416-SSH-K13B
Date Collected: 09/14/16 11:35
Date Received: 09/15/16 09:15

Lab Sample ID: 240-69503-15
Matrix: Solid
Percent Solids: 96.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	100	U	100	48	ug/Kg	☼	09/16/16 09:43	09/19/16 20:15	1
Aroclor-1221	100	U	100	46	ug/Kg	☼	09/16/16 09:43	09/19/16 20:15	1
Aroclor-1232	100	U	100	32	ug/Kg	☼	09/16/16 09:43	09/19/16 20:15	1
Aroclor-1242	100	U	100	40	ug/Kg	☼	09/16/16 09:43	09/19/16 20:15	1
Aroclor-1248	100	U	100	34	ug/Kg	☼	09/16/16 09:43	09/19/16 20:15	1
Aroclor-1254	**360**		100	28	ug/Kg	☼	09/16/16 09:43	09/19/16 20:15	1
Aroclor-1260	100	U	100	36	ug/Kg	☼	09/16/16 09:43	09/19/16 20:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*69*		*14 - 128*	*09/16/16 09:43*	*09/19/16 20:15*	*1*
DCB Decachlorobiphenyl	*77*		*10 - 132*	*09/16/16 09:43*	*09/19/16 20:15*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69503-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-091416-SSH-K14B
Date Collected: 09/14/16 11:45
Date Received: 09/15/16 09:15

Lab Sample ID: 240-69503-16
Matrix: Solid
Percent Solids: 96.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	100	U	100	48	ug/Kg	☼	09/16/16 09:43	09/19/16 20:33	1
Aroclor-1221	100	U	100	46	ug/Kg	☼	09/16/16 09:43	09/19/16 20:33	1
Aroclor-1232	100	U	100	32	ug/Kg	☼	09/16/16 09:43	09/19/16 20:33	1
Aroclor-1242	100	U	100	40	ug/Kg	☼	09/16/16 09:43	09/19/16 20:33	1
Aroclor-1248	100	U	100	34	ug/Kg	☼	09/16/16 09:43	09/19/16 20:33	1
Aroclor-1254	**530**		100	28	ug/Kg	☼	09/16/16 09:43	09/19/16 20:33	1
Aroclor-1260	100	U	100	36	ug/Kg	☼	09/16/16 09:43	09/19/16 20:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*70*		*14 - 128*	*09/16/16 09:43*	*09/19/16 20:33*	*1*
DCB Decachlorobiphenyl	*74*		*10 - 132*	*09/16/16 09:43*	*09/19/16 20:33*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69503-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-091416-SSH-K15B
Date Collected: 09/14/16 11:55
Date Received: 09/15/16 09:15

Lab Sample ID: 240-69503-17
Matrix: Solid
Percent Solids: 93.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	110	U	110	51	ug/Kg	☼	09/16/16 09:43	09/19/16 21:46	1
Aroclor-1221	110	U	110	49	ug/Kg	☼	09/16/16 09:43	09/19/16 21:46	1
Aroclor-1232	110	U	110	34	ug/Kg	☼	09/16/16 09:43	09/19/16 21:46	1
Aroclor-1242	110	U	110	43	ug/Kg	☼	09/16/16 09:43	09/19/16 21:46	1
Aroclor-1248	110	U	110	36	ug/Kg	☼	09/16/16 09:43	09/19/16 21:46	1
Aroclor-1254	**100**	**J**	110	30	ug/Kg	☼	09/16/16 09:43	09/19/16 21:46	1
Aroclor-1260	110	U	110	38	ug/Kg	☼	09/16/16 09:43	09/19/16 21:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*59*		*14 - 128*	*09/16/16 09:43*	*09/19/16 21:46*	*1*
DCB Decachlorobiphenyl	*60*		*10 - 132*	*09/16/16 09:43*	*09/19/16 21:46*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69503-1

General Chemistry

Client Sample ID: C-7878-091416-SSH-K16
Date Collected: 09/14/16 08:35
Date Received: 09/15/16 09:15

Lab Sample ID: 240-69503-1
Matrix: Solid
Percent Solids: 98.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	98.8		0.1	0.1	%			09/16/16 08:58	1
Percent Moisture	1.2		0.1	0.1	%			09/16/16 08:58	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69503-1

General Chemistry

Client Sample ID: C-7878-091416-SSH-K17
Date Collected: 09/14/16 08:45
Date Received: 09/15/16 09:15

Lab Sample ID: 240-69503-2
Matrix: Solid
Percent Solids: 97.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97.7		0.1	0.1	%			09/16/16 08:58	1
Percent Moisture	2.3		0.1	0.1	%			09/16/16 08:58	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69503-1

General Chemistry

Client Sample ID: C-7878-091416-SSH-K18
Date Collected: 09/14/16 08:55
Date Received: 09/15/16 09:15

Lab Sample ID: 240-69503-3
Matrix: Solid
Percent Solids: 96.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96.9		0.1	0.1	%			09/16/16 08:58	1
Percent Moisture	3.1		0.1	0.1	%			09/16/16 08:58	1

General Chemistry

Client Sample ID: C-7878-091416-SSH-K3
Date Collected: 09/14/16 09:10
Date Received: 09/15/16 09:15

Lab Sample ID: 240-69503-4
Matrix: Solid
Percent Solids: 97.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97.6		0.1	0.1	%			09/16/16 08:58	1
Percent Moisture	2.4		0.1	0.1	%			09/16/16 08:58	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69503-1

General Chemistry

Client Sample ID: C-7878-091416-SSH-K4
Date Collected: 09/14/16 09:20
Date Received: 09/15/16 09:15

Lab Sample ID: 240-69503-5
Matrix: Solid
Percent Solids: 98.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	98.9		0.1	0.1	%			09/16/16 08:58	1
Percent Moisture	1.1		0.1	0.1	%			09/16/16 08:58	1

General Chemistry

Client Sample ID: C-7878-091416-SSH-K5
Date Collected: 09/14/16 09:30
Date Received: 09/15/16 09:15

Lab Sample ID: 240-69503-6
Matrix: Solid
Percent Solids: 97.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97.2		0.1	0.1	%			09/16/16 08:58	1
Percent Moisture	2.8		0.1	0.1	%			09/16/16 08:58	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69503-1

General Chemistry

Client Sample ID: C-7878-091416-SSH-6090B
Date Collected: 09/14/16 09:45
Date Received: 09/15/16 09:15

Lab Sample ID: 240-69503-7
Matrix: Solid
Percent Solids: 95.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**95.2**		0.1	0.1	%			09/16/16 08:58	1
Percent Moisture	**4.8**		0.1	0.1	%			09/16/16 08:58	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69503-1

General Chemistry

Client Sample ID: C-7878-091416-SSH-6093B
Date Collected: 09/14/16 10:00
Date Received: 09/15/16 09:15

Lab Sample ID: 240-69503-8
Matrix: Solid
Percent Solids: 95.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**95.3**		0.1	0.1	%			09/16/16 08:58	1
Percent Moisture	**4.7**		0.1	0.1	%			09/16/16 08:58	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69503-1

General Chemistry

Client Sample ID: C-7878-091416-SSH-K6B
Date Collected: 09/14/16 10:15
Date Received: 09/15/16 09:15

Lab Sample ID: 240-69503-9
Matrix: Solid
Percent Solids: 96.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96.6		0.1	0.1	%			09/16/16 10:24	1
Percent Moisture	3.4		0.1	0.1	%			09/16/16 10:24	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69503-1

General Chemistry

Client Sample ID: C-7878-091416-SSH-K7B
Date Collected: 09/14/16 10:25
Date Received: 09/15/16 09:15

Lab Sample ID: 240-69503-10
Matrix: Solid
Percent Solids: 95.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	95.9		0.1	0.1	%			09/16/16 10:24	1
Percent Moisture	4.1		0.1	0.1	%			09/16/16 10:24	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69503-1

General Chemistry

Client Sample ID: C-7878-091416-SSH-K8B
Date Collected: 09/14/16 10:35
Date Received: 09/15/16 09:15

Lab Sample ID: 240-69503-11
Matrix: Solid
Percent Solids: 93.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**93.8**		0.1	0.1	%			09/16/16 10:24	1
Percent Moisture	**6.2**		0.1	0.1	%			09/16/16 10:24	1

General Chemistry

Client Sample ID: C-7878-091416-SSH-K10B
Date Collected: 09/14/16 10:50
Date Received: 09/15/16 09:15

Lab Sample ID: 240-69503-12
Matrix: Solid
Percent Solids: 94.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	94.9		0.1	0.1	%			09/16/16 10:24	1
Percent Moisture	5.1		0.1	0.1	%			09/16/16 10:24	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69503-1

General Chemistry

Client Sample ID: C-7878-091416-SSH-K11B
Date Collected: 09/14/16 11:05
Date Received: 09/15/16 09:15

Lab Sample ID: 240-69503-13
Matrix: Solid
Percent Solids: 92.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	92.8		0.1	0.1	%			09/16/16 10:24	1
Percent Moisture	7.2		0.1	0.1	%			09/16/16 10:24	1

General Chemistry

Client Sample ID: C-7878-091416-SSH-K12B
Date Collected: 09/14/16 11:20
Date Received: 09/15/16 09:15

Lab Sample ID: 240-69503-14
Matrix: Solid
Percent Solids: 96.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96.3		0.1	0.1	%			09/16/16 10:24	1
Percent Moisture	3.7		0.1	0.1	%			09/16/16 10:24	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69503-1

General Chemistry

Client Sample ID: C-7878-091416-SSH-K13B
Date Collected: 09/14/16 11:35
Date Received: 09/15/16 09:15

Lab Sample ID: 240-69503-15
Matrix: Solid
Percent Solids: 96.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96.8		0.1	0.1	%			09/16/16 10:24	1
Percent Moisture	3.2		0.1	0.1	%			09/16/16 10:24	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69503-1

General Chemistry

Client Sample ID: C-7878-091416-SSH-K14B
Date Collected: 09/14/16 11:45
Date Received: 09/15/16 09:15

Lab Sample ID: 240-69503-16
Matrix: Solid
Percent Solids: 96.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96.3		0.1	0.1	%			09/16/16 10:24	1
Percent Moisture	3.7		0.1	0.1	%			09/16/16 10:24	1

General Chemistry

Client Sample ID: C-7878-091416-SSH-K15B
Date Collected: 09/14/16 11:55
Date Received: 09/15/16 09:15

Lab Sample ID: 240-69503-17
Matrix: Solid
Percent Solids: 93.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	93.2		0.1	0.1	%			09/16/16 10:24	1
Percent Moisture	6.8		0.1	0.1	%			09/16/16 10:24	1

GC Semi VOA

Prep Batch: 247125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-69503-1	C-7878-091416-SSH-K16	Total/NA	Solid	3540C	
240-69503-2	C-7878-091416-SSH-K17	Total/NA	Solid	3540C	
240-69503-3	C-7878-091416-SSH-K18	Total/NA	Solid	3540C	
240-69503-4	C-7878-091416-SSH-K3	Total/NA	Solid	3540C	
240-69503-5	C-7878-091416-SSH-K4	Total/NA	Solid	3540C	
240-69503-6	C-7878-091416-SSH-K5	Total/NA	Solid	3540C	
240-69503-7	C-7878-091416-SSH-6090B	Total/NA	Solid	3540C	
240-69503-8	C-7878-091416-SSH-6093B	Total/NA	Solid	3540C	
240-69503-9	C-7878-091416-SSH-K6B	Total/NA	Solid	3540C	
240-69503-10	C-7878-091416-SSH-K7B	Total/NA	Solid	3540C	
240-69503-11	C-7878-091416-SSH-K8B	Total/NA	Solid	3540C	
240-69503-12	C-7878-091416-SSH-K10B	Total/NA	Solid	3540C	
240-69503-13	C-7878-091416-SSH-K11B	Total/NA	Solid	3540C	
240-69503-14	C-7878-091416-SSH-K12B	Total/NA	Solid	3540C	
240-69503-15	C-7878-091416-SSH-K13B	Total/NA	Solid	3540C	
240-69503-16	C-7878-091416-SSH-K14B	Total/NA	Solid	3540C	
240-69503-17	C-7878-091416-SSH-K15B	Total/NA	Solid	3540C	
MB 240-247125/20-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-247125/21-A	Lab Control Sample	Total/NA	Solid	3540C	
240-69503-17 MS	C-7878-091416-SSH-K15B	Total/NA	Solid	3540C	
240-69503-17 MSD	C-7878-091416-SSH-K15B	Total/NA	Solid	3540C	

Analysis Batch: 247433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-69503-1	C-7878-091416-SSH-K16	Total/NA	Solid	8082	247125
240-69503-2	C-7878-091416-SSH-K17	Total/NA	Solid	8082	247125
240-69503-3	C-7878-091416-SSH-K18	Total/NA	Solid	8082	247125
240-69503-5	C-7878-091416-SSH-K4	Total/NA	Solid	8082	247125
240-69503-6	C-7878-091416-SSH-K5	Total/NA	Solid	8082	247125
240-69503-7	C-7878-091416-SSH-6090B	Total/NA	Solid	8082	247125
240-69503-8	C-7878-091416-SSH-6093B	Total/NA	Solid	8082	247125
240-69503-9	C-7878-091416-SSH-K6B	Total/NA	Solid	8082	247125
240-69503-10	C-7878-091416-SSH-K7B	Total/NA	Solid	8082	247125
240-69503-11	C-7878-091416-SSH-K8B	Total/NA	Solid	8082	247125
240-69503-12	C-7878-091416-SSH-K10B	Total/NA	Solid	8082	247125
240-69503-13	C-7878-091416-SSH-K11B	Total/NA	Solid	8082	247125
240-69503-14	C-7878-091416-SSH-K12B	Total/NA	Solid	8082	247125
240-69503-15	C-7878-091416-SSH-K13B	Total/NA	Solid	8082	247125
240-69503-16	C-7878-091416-SSH-K14B	Total/NA	Solid	8082	247125
240-69503-17	C-7878-091416-SSH-K15B	Total/NA	Solid	8082	247125
MB 240-247125/20-A	Method Blank	Total/NA	Solid	8082	247125
LCS 240-247125/21-A	Lab Control Sample	Total/NA	Solid	8082	247125
240-69503-17 MS	C-7878-091416-SSH-K15B	Total/NA	Solid	8082	247125
240-69503-17 MSD	C-7878-091416-SSH-K15B	Total/NA	Solid	8082	247125

Analysis Batch: 247519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-69503-4	C-7878-091416-SSH-K3	Total/NA	Solid	8082	247125

QC Association Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69503-1

General Chemistry

Analysis Batch: 247113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-69503-1	C-7878-091416-SSH-K16	Total/NA	Solid	Moisture	
240-69503-2	C-7878-091416-SSH-K17	Total/NA	Solid	Moisture	
240-69503-3	C-7878-091416-SSH-K18	Total/NA	Solid	Moisture	
240-69503-4	C-7878-091416-SSH-K3	Total/NA	Solid	Moisture	
240-69503-5	C-7878-091416-SSH-K4	Total/NA	Solid	Moisture	
240-69503-6	C-7878-091416-SSH-K5	Total/NA	Solid	Moisture	
240-69503-7	C-7878-091416-SSH-6090B	Total/NA	Solid	Moisture	
240-69503-8	C-7878-091416-SSH-6093B	Total/NA	Solid	Moisture	
240-69503-9	C-7878-091416-SSH-K6B	Total/NA	Solid	Moisture	
240-69503-10	C-7878-091416-SSH-K7B	Total/NA	Solid	Moisture	
240-69503-11	C-7878-091416-SSH-K8B	Total/NA	Solid	Moisture	
240-69503-12	C-7878-091416-SSH-K10B	Total/NA	Solid	Moisture	
240-69503-13	C-7878-091416-SSH-K11B	Total/NA	Solid	Moisture	
240-69503-14	C-7878-091416-SSH-K12B	Total/NA	Solid	Moisture	
240-69503-15	C-7878-091416-SSH-K13B	Total/NA	Solid	Moisture	
240-69503-16	C-7878-091416-SSH-K14B	Total/NA	Solid	Moisture	
240-69503-17	C-7878-091416-SSH-K15B	Total/NA	Solid	Moisture	
240-69503-9 DU	C-7878-091416-SSH-K6B	Total/NA	Solid	Moisture	

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-247125/20-A
Matrix: Solid
Analysis Batch: 247433

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 247125

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	100	U	100	48	ug/Kg		09/16/16 09:43	09/19/16 20:51	1
Aroclor-1221	100	U	100	46	ug/Kg		09/16/16 09:43	09/19/16 20:51	1
Aroclor-1232	100	U	100	32	ug/Kg		09/16/16 09:43	09/19/16 20:51	1
Aroclor-1242	100	U	100	40	ug/Kg		09/16/16 09:43	09/19/16 20:51	1
Aroclor-1248	100	U	100	34	ug/Kg		09/16/16 09:43	09/19/16 20:51	1
Aroclor-1254	100	U	100	28	ug/Kg		09/16/16 09:43	09/19/16 20:51	1
Aroclor-1260	100	U	100	36	ug/Kg		09/16/16 09:43	09/19/16 20:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*139*	*X*	*14 - 128*	*09/16/16 09:43*	*09/19/16 20:51*	*1*
DCB Decachlorobiphenyl	*72*		*10 - 132*	*09/16/16 09:43*	*09/19/16 20:51*	*1*

Lab Sample ID: LCS 240-247125/21-A
Matrix: Solid
Analysis Batch: 247433

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 247125

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	2000	1210		ug/Kg		61	47 - 120
Aroclor-1260	2000	1280		ug/Kg		64	46 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*120*		*14 - 128*
DCB Decachlorobiphenyl	*71*		*10 - 132*

Lab Sample ID: 240-69503-17 MS
Matrix: Solid
Analysis Batch: 247433

Client Sample ID: C-7878-091416-SSH-K15B
Prep Type: Total/NA
Prep Batch: 247125

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	110	U	2130	1190		ug/Kg	☼	56	31 - 120
Aroclor-1260	110	U	2130	1270		ug/Kg	☼	60	21 - 122

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*59*		*14 - 128*
DCB Decachlorobiphenyl	*60*		*10 - 132*

Lab Sample ID: 240-69503-17 MSD
Matrix: Solid
Analysis Batch: 247433

Client Sample ID: C-7878-091416-SSH-K15B
Prep Type: Total/NA
Prep Batch: 247125

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor-1016	110	U	2130	1020		ug/Kg	☼	48	31 - 120	16	30
Aroclor-1260	110	U	2130	1130		ug/Kg	☼	53	21 - 122	12	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*47*		*14 - 128*
DCB Decachlorobiphenyl	*56*		*10 - 132*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69503-1

Method: Moisture - Percent Moisture

Lab Sample ID: 240-69503-9 DU
Matrix: Solid
Analysis Batch: 247113

Client Sample ID: C-7878-091416-SSH-K6B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Solids	96.6			97.3		%				0.7	20
Percent Moisture	3.4			2.7	F3	%				22	20

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69503-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	TCX2 (14-128)	DCB2 (10-132)										
240-69503-1	C-7878-091416-SSH-K16	69	77										
240-69503-2	C-7878-091416-SSH-K17	86	95										
240-69503-3	C-7878-091416-SSH-K18	69	72										
240-69503-4	C-7878-091416-SSH-K3	82	75										
240-69503-5	C-7878-091416-SSH-K4	76	91										
240-69503-6	C-7878-091416-SSH-K5	65	75										
240-69503-7	C-7878-091416-SSH-6090B	0 X	0 X										
240-69503-8	C-7878-091416-SSH-6093B	74	93										
240-69503-9	C-7878-091416-SSH-K6B	71	65										
240-69503-10	C-7878-091416-SSH-K7B	58	44										
240-69503-11	C-7878-091416-SSH-K8B	54	57										
240-69503-12	C-7878-091416-SSH-K10B	69	68										
240-69503-13	C-7878-091416-SSH-K11B	70	86										
240-69503-14	C-7878-091416-SSH-K12B	74	80										
240-69503-15	C-7878-091416-SSH-K13B	69	77										
240-69503-16	C-7878-091416-SSH-K14B	70	74										
240-69503-17	C-7878-091416-SSH-K15B	59	60										
240-69503-17 MS	C-7878-091416-SSH-K15B	59	60										
240-69503-17 MSD	C-7878-091416-SSH-K15B	47	56										
LCS 240-247125/21-A	Lab Control Sample	120	71										
MB 240-247125/20-A	Method Blank	139 X	72										

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

Client Sample ID: C-7878-091416-SSH-K16
Lab Sample ID: 240-69503-1
Date Collected: 09/14/16 08:35
Matrix: Solid
Date Received: 09/15/16 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	247113	09/16/16 08:58	JMB	TAL CAN

Client Sample ID: C-7878-091416-SSH-K16
Lab Sample ID: 240-69503-1
Date Collected: 09/14/16 08:35
Matrix: Solid
Date Received: 09/15/16 09:15
Percent Solids: 98.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			247125	09/16/16 09:43	DT	TAL CAN
Total/NA	Analysis	8082		20	247433	09/19/16 16:00	KMG	TAL CAN

Client Sample ID: C-7878-091416-SSH-K17
Lab Sample ID: 240-69503-2
Date Collected: 09/14/16 08:45
Matrix: Solid
Date Received: 09/15/16 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	247113	09/16/16 08:58	JMB	TAL CAN

Client Sample ID: C-7878-091416-SSH-K17
Lab Sample ID: 240-69503-2
Date Collected: 09/14/16 08:45
Matrix: Solid
Date Received: 09/15/16 09:15
Percent Solids: 97.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			247125	09/16/16 09:43	DT	TAL CAN
Total/NA	Analysis	8082		5	247433	09/19/16 16:18	KMG	TAL CAN

Client Sample ID: C-7878-091416-SSH-K18
Lab Sample ID: 240-69503-3
Date Collected: 09/14/16 08:55
Matrix: Solid
Date Received: 09/15/16 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	247113	09/16/16 08:58	JMB	TAL CAN

Client Sample ID: C-7878-091416-SSH-K18
Lab Sample ID: 240-69503-3
Date Collected: 09/14/16 08:55
Matrix: Solid
Date Received: 09/15/16 09:15
Percent Solids: 96.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			247125	09/16/16 09:43	DT	TAL CAN
Total/NA	Analysis	8082		10	247433	09/19/16 16:36	KMG	TAL CAN

Client Sample ID: C-7878-091416-SSH-K3 — **Lab Sample ID: 240-69503-4**
Date Collected: 09/14/16 09:10 — **Matrix: Solid**
Date Received: 09/15/16 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	247113	09/16/16 08:58	JMB	TAL CAN

Client Sample ID: C-7878-091416-SSH-K3 — **Lab Sample ID: 240-69503-4**
Date Collected: 09/14/16 09:10 — **Matrix: Solid**
Date Received: 09/15/16 09:15 — **Percent Solids: 97.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			247125	09/16/16 09:43	DT	TAL CAN
Total/NA	Analysis	8082		10	247519	09/20/16 13:09	KMG	TAL CAN

Client Sample ID: C-7878-091416-SSH-K4 — **Lab Sample ID: 240-69503-5**
Date Collected: 09/14/16 09:20 — **Matrix: Solid**
Date Received: 09/15/16 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	247113	09/16/16 08:58	JMB	TAL CAN

Client Sample ID: C-7878-091416-SSH-K4 — **Lab Sample ID: 240-69503-5**
Date Collected: 09/14/16 09:20 — **Matrix: Solid**
Date Received: 09/15/16 09:15 — **Percent Solids: 98.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			247125	09/16/16 09:43	DT	TAL CAN
Total/NA	Analysis	8082		50	247433	09/19/16 17:13	KMG	TAL CAN

Client Sample ID: C-7878-091416-SSH-K5 — **Lab Sample ID: 240-69503-6**
Date Collected: 09/14/16 09:30 — **Matrix: Solid**
Date Received: 09/15/16 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	247113	09/16/16 08:58	JMB	TAL CAN

Client Sample ID: C-7878-091416-SSH-K5 — **Lab Sample ID: 240-69503-6**
Date Collected: 09/14/16 09:30 — **Matrix: Solid**
Date Received: 09/15/16 09:15 — **Percent Solids: 97.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			247125	09/16/16 09:43	DT	TAL CAN
Total/NA	Analysis	8082		50	247433	09/19/16 17:31	KMG	TAL CAN

Client Sample ID: C-7878-091416-SSH-6090B — **Lab Sample ID: 240-69503-7**
Date Collected: 09/14/16 09:45 — **Matrix: Solid**
Date Received: 09/15/16 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	247113	09/16/16 08:58	JMB	TAL CAN

Client Sample ID: C-7878-091416-SSH-6090B — **Lab Sample ID: 240-69503-7**
Date Collected: 09/14/16 09:45 — **Matrix: Solid**
Date Received: 09/15/16 09:15 — **Percent Solids: 95.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			247125	09/16/16 09:43	DT	TAL CAN
Total/NA	Analysis	8082		10000	247433	09/19/16 17:49	KMG	TAL CAN

Client Sample ID: C-7878-091416-SSH-6093B — **Lab Sample ID: 240-69503-8**
Date Collected: 09/14/16 10:00 — **Matrix: Solid**
Date Received: 09/15/16 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	247113	09/16/16 08:58	JMB	TAL CAN

Client Sample ID: C-7878-091416-SSH-6093B — **Lab Sample ID: 240-69503-8**
Date Collected: 09/14/16 10:00 — **Matrix: Solid**
Date Received: 09/15/16 09:15 — **Percent Solids: 95.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			247125	09/16/16 09:43	DT	TAL CAN
Total/NA	Analysis	8082		50	247433	09/19/16 18:08	KMG	TAL CAN

Client Sample ID: C-7878-091416-SSH-K6B — **Lab Sample ID: 240-69503-9**
Date Collected: 09/14/16 10:15 — **Matrix: Solid**
Date Received: 09/15/16 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	247113	09/16/16 10:24	JMB	TAL CAN

Client Sample ID: C-7878-091416-SSH-K6B — **Lab Sample ID: 240-69503-9**
Date Collected: 09/14/16 10:15 — **Matrix: Solid**
Date Received: 09/15/16 09:15 — **Percent Solids: 96.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			247125	09/16/16 09:43	DT	TAL CAN
Total/NA	Analysis	8082		1	247433	09/19/16 18:26	KMG	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69503-1

Client Sample ID: C-7878-091416-SSH-K7B — Lab Sample ID: 240-69503-10

Date Collected: 09/14/16 10:25 — **Matrix: Solid**
Date Received: 09/15/16 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	247113	09/16/16 10:24	JMB	TAL CAN

Client Sample ID: C-7878-091416-SSH-K7B — Lab Sample ID: 240-69503-10

Date Collected: 09/14/16 10:25 — **Matrix: Solid**
Date Received: 09/15/16 09:15 — **Percent Solids: 95.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			247125	09/16/16 09:43	DT	TAL CAN
Total/NA	Analysis	8082		1	247433	09/19/16 18:44	KMG	TAL CAN

Client Sample ID: C-7878-091416-SSH-K8B — Lab Sample ID: 240-69503-11

Date Collected: 09/14/16 10:35 — **Matrix: Solid**
Date Received: 09/15/16 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	247113	09/16/16 10:24	JMB	TAL CAN

Client Sample ID: C-7878-091416-SSH-K8B — Lab Sample ID: 240-69503-11

Date Collected: 09/14/16 10:35 — **Matrix: Solid**
Date Received: 09/15/16 09:15 — **Percent Solids: 93.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			247125	09/16/16 09:43	DT	TAL CAN
Total/NA	Analysis	8082		1	247433	09/19/16 19:02	KMG	TAL CAN

Client Sample ID: C-7878-091416-SSH-K10B — Lab Sample ID: 240-69503-12

Date Collected: 09/14/16 10:50 — **Matrix: Solid**
Date Received: 09/15/16 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	247113	09/16/16 10:24	JMB	TAL CAN

Client Sample ID: C-7878-091416-SSH-K10B — Lab Sample ID: 240-69503-12

Date Collected: 09/14/16 10:50 — **Matrix: Solid**
Date Received: 09/15/16 09:15 — **Percent Solids: 94.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			247125	09/16/16 09:43	DT	TAL CAN
Total/NA	Analysis	8082		1	247433	09/19/16 19:20	KMG	TAL CAN

Client Sample ID: C-7878-091416-SSH-K11B — **Lab Sample ID: 240-69503-13**
Date Collected: 09/14/16 11:05 — **Matrix: Solid**
Date Received: 09/15/16 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	247113	09/16/16 10:24	JMB	TAL CAN

Client Sample ID: C-7878-091416-SSH-K11B — **Lab Sample ID: 240-69503-13**
Date Collected: 09/14/16 11:05 — **Matrix: Solid**
Date Received: 09/15/16 09:15 — **Percent Solids: 92.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			247125	09/16/16 09:43	DT	TAL CAN
Total/NA	Analysis	8082		5	247433	09/19/16 19:39	KMG	TAL CAN

Client Sample ID: C-7878-091416-SSH-K12B — **Lab Sample ID: 240-69503-14**
Date Collected: 09/14/16 11:20 — **Matrix: Solid**
Date Received: 09/15/16 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	247113	09/16/16 10:24	JMB	TAL CAN

Client Sample ID: C-7878-091416-SSH-K12B — **Lab Sample ID: 240-69503-14**
Date Collected: 09/14/16 11:20 — **Matrix: Solid**
Date Received: 09/15/16 09:15 — **Percent Solids: 96.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			247125	09/16/16 09:43	DT	TAL CAN
Total/NA	Analysis	8082		1	247433	09/19/16 19:57	KMG	TAL CAN

Client Sample ID: C-7878-091416-SSH-K13B — **Lab Sample ID: 240-69503-15**
Date Collected: 09/14/16 11:35 — **Matrix: Solid**
Date Received: 09/15/16 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	247113	09/16/16 10:24	JMB	TAL CAN

Client Sample ID: C-7878-091416-SSH-K13B — **Lab Sample ID: 240-69503-15**
Date Collected: 09/14/16 11:35 — **Matrix: Solid**
Date Received: 09/15/16 09:15 — **Percent Solids: 96.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			247125	09/16/16 09:43	DT	TAL CAN
Total/NA	Analysis	8082		1	247433	09/19/16 20:15	KMG	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69503-1

Client Sample ID: C-7878-091416-SSH-K14B
Lab Sample ID: 240-69503-16
Date Collected: 09/14/16 11:45
Matrix: Solid
Date Received: 09/15/16 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	247113	09/16/16 10:24	JMB	TAL CAN

Client Sample ID: C-7878-091416-SSH-K14B
Lab Sample ID: 240-69503-16
Date Collected: 09/14/16 11:45
Matrix: Solid
Date Received: 09/15/16 09:15
Percent Solids: 96.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			247125	09/16/16 09:43	DT	TAL CAN
Total/NA	Analysis	8082		1	247433	09/19/16 20:33	KMG	TAL CAN

Client Sample ID: C-7878-091416-SSH-K15B
Lab Sample ID: 240-69503-17
Date Collected: 09/14/16 11:55
Matrix: Solid
Date Received: 09/15/16 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	247113	09/16/16 10:24	JMB	TAL CAN

Client Sample ID: C-7878-091416-SSH-K15B
Lab Sample ID: 240-69503-17
Date Collected: 09/14/16 11:55
Matrix: Solid
Date Received: 09/15/16 09:15
Percent Solids: 93.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			247125	09/16/16 09:43	DT	TAL CAN
Total/NA	Analysis	8082		1	247433	09/19/16 21:46	KMG	TAL CAN

Laboratory References:

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

Certification Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69503-1

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 (WW)	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	09-14-16 *
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 Michigan
10448 Citation Drive
Suite 200
Brighton, MI 48116
Phone: 810.229.2763 Fax:

0.6/C1.0

Chain of Custody Record

163414

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other:

Client Contact	Project Manager: M. Tomko	Site Contact: JE Pardys	Date: 9/14/16	COC No: 163414 163415
Company Name: GHD	Tel/Fax: 517 884 0510	Lab Contact: D. Heckver	Carrier: FedEx	1 of 2 COCs
Address: 14496 N. Sheldon Rd Ste 200	Analysis Turnaround Time			Sampler: S Hoevemeyer
City/State/Zip: Plymouth, MI 48170	☒ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 734 453 5123	TAT if different from Below 5 days			Walk-in Client:
Fax:	☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day			Lab Sampling:
Project Name: RacerTrust SMT				Job / SDG No.:
Site: SSOW 7878-T01-012				
P O #				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	PCBs	Sample Specific Notes:
C-7878-091416-SSH-K16	9/14/16	0835	G	C	1	N	N	X	
-K17		0845	G	C	1	N	N	X	
-K18		0855	G	C	1	N	N	X	
-K3		0910	G	C	1	N	N	X	
-K4		0920	G	C	1	N	N	X	
-K5		0930	G	C	1	N	N	X	
-7878-091416-SSH-6090B		0945	G	C	1	N	N	X	
-6093B		1000	G	C	1	N	N	X	
-K6B		1015	G	C	1	N	N	X	
-K7B		1025	G	C	1	N	N	X	
-K8B		1035	G	C	1	N	N	X	
C-7878-091416-SSH-K10B		1050	G	C	1	N	N	X	

240-69503 Chain of Custody

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.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: TAT - 5 days

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.: 959439	Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:
Relinquished by:	Company: GHD	Date/Time: 9/14/16 1600	Received by:	Company: FANC	Date/Time: 9/15/16 0915
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

TestAmerica Michigan
10448 Citation Drive
Suite 200
Brighton, MI 48116
Phone: 810.229.2763 Fax:

Chain of Custody Record

163415

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other:

Client Contact	Project Manager: M. Tomka	Site Contact: JE Pardys	Date: 9/14/16	COC No: 163415 163414
Company Name: GHD	Tel/Fax: 519 884 0510	Lab Contact: D. Heckler	Carrier: FedEx	2 of 2 COCs
Address:	Analysis Turnaround Time			Sampler: S. Hoekema
City/State/Zip:	☒ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone:	TAT if different from Below 5 days			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: RawTrust SMT	☐ 1 week			
Site: SSOW 7878-T01-012	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs	Sample Specific Notes:
C-7878-091416-SSH-K11B	9/14/16	1105	G	C	1	N	N	X	
-K12B		1120	G	C	1	N	N	X	
-K13B		1135	G	C	1	N	N	X	
-K14B		1145	G	C	1	N	N	X	
C-7878-091416-SSH-K15B		1155	G	C	1	N	N	X	

SSH

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.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

TAT - 5 days

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.: 959439	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____	Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
S. Hoekema	GHD	9/14/16 1600		DANC	9/15/16 9:15
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

9/21/2016

TestAmerica Canton Sample Receipt Form/Narrative **Login # :** 69503
Canton Facility

Client GHD Site Name _____ Cooler unpacked by:

Cooler Received on 9/15/16 Opened on 9/15/16

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # _____ Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form
   IR GUN# IR-8 (CF +0.4 °C) Observed Cooler Temp. 0.6 °C Corrected Cooler Temp. 1.0 °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 1 Yes No
   -Were custody seals on the outside of the cooler(s) signed & dated? Yes No NA
   -Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels be reconciled with the COC? Yes No
9. Were correct bottle(s) used for the test(s) indicated? Yes No
10. Sufficient quantity received to perform indicated analyses? Yes No
11. Are these work share samples? Yes No
    If yes, Questions 11-15 have been checked at the originating laboratory.
11. Were sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# **HC574756**
12. Were VOAs on the COC? Yes No
13. Were air bubbles >6 mm in any VOA vials? Yes No NA
14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No
15. Was a LL Hg or Me Hg trip blank present? _____ Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by:

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____

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: 240-69135-4
Client Project/Site: 7878, RACER SMI

For:
GHD Services Inc.
14496 Sheldon Road, Suite 200
Plymouth, Michigan 48170

Attn: Rawa Fleisher

Denise D Heckler

Authorized for release by:
9/22/2016 3:09:00 PM

Denise Heckler, Project Manager II
(330)966-9477
denise.heckler@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: 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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Case Narrative

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69135-4

Job ID: 240-69135-4

Laboratory: TestAmerica Canton

Narrative

Job Narrative
240-69135-4

Comments
Sample was taken off hold by GHD on September 15, 2016.

Receipt
The samples were received on 9/7/2016 9:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.4° C.

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

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

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

Qualifiers

GC Semi VOA

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.
¤	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)

Sample Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69135-4

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-69135-2	C-7878-090616-SSH-6127	Solid	09/06/16 10:30	09/07/16 09:40

Detection Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69135-4

Client Sample ID: C-7878-090616-SSH-6127 — Lab Sample ID: 240-69135-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	4400		510	140	ug/Kg	5	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69135-4

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
Moisture	Percent Moisture	EPA	TAL CAN

Protocol References:

EPA = US Environmental Protection Agency

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

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69135-4

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-090616-SSH-6127
Date Collected: 09/06/16 10:30
Date Received: 09/07/16 09:40

Lab Sample ID: 240-69135-2
Matrix: Solid
Percent Solids: 97.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	510	U	510	240	ug/Kg	☼	09/17/16 10:53	09/20/16 11:48	5
Aroclor-1221	510	U	510	230	ug/Kg	☼	09/17/16 10:53	09/20/16 11:48	5
Aroclor-1232	510	U	510	160	ug/Kg	☼	09/17/16 10:53	09/20/16 11:48	5
Aroclor-1242	510	U	510	200	ug/Kg	☼	09/17/16 10:53	09/20/16 11:48	5
Aroclor-1248	510	U	510	170	ug/Kg	☼	09/17/16 10:53	09/20/16 11:48	5
Aroclor-1254	**4400**		510	140	ug/Kg	☼	09/17/16 10:53	09/20/16 11:48	5
Aroclor-1260	510	U	510	180	ug/Kg	☼	09/17/16 10:53	09/20/16 11:48	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*91*		*14 - 128*	*09/17/16 10:53*	*09/20/16 11:48*	*5*
DCB Decachlorobiphenyl	*111*		*10 - 132*	*09/17/16 10:53*	*09/20/16 11:48*	*5*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69135-4

General Chemistry

Client Sample ID: C-7878-090616-SSH-6127
Date Collected: 09/06/16 10:30
Date Received: 09/07/16 09:40

Lab Sample ID: 240-69135-2
Matrix: Solid
Percent Solids: 97.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97.6		0.1	0.1	%			09/07/16 16:33	1
Percent Moisture	2.4		0.1	0.1	%			09/07/16 16:33	1

QC Association Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69135-4

GC Semi VOA

Prep Batch: 247263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-69135-2	C-7878-090616-SSH-6127	Total/NA	Solid	3540C	
MB 240-247263/6-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-247263/7-A	Lab Control Sample	Total/NA	Solid	3540C	

Analysis Batch: 247525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-69135-2	C-7878-090616-SSH-6127	Total/NA	Solid	8082	247263
MB 240-247263/6-A	Method Blank	Total/NA	Solid	8082	247263
LCS 240-247263/7-A	Lab Control Sample	Total/NA	Solid	8082	247263

General Chemistry

Analysis Batch: 245784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-69135-2	C-7878-090616-SSH-6127	Total/NA	Solid	Moisture	

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-247263/6-A
Matrix: Solid
Analysis Batch: 247525

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 247263

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	100	U	100	48	ug/Kg		09/17/16 10:53	09/20/16 13:20	1
Aroclor-1221	100	U	100	46	ug/Kg		09/17/16 10:53	09/20/16 13:20	1
Aroclor-1232	100	U	100	32	ug/Kg		09/17/16 10:53	09/20/16 13:20	1
Aroclor-1242	100	U	100	40	ug/Kg		09/17/16 10:53	09/20/16 13:20	1
Aroclor-1248	100	U	100	34	ug/Kg		09/17/16 10:53	09/20/16 13:20	1
Aroclor-1254	100	U	100	28	ug/Kg		09/17/16 10:53	09/20/16 13:20	1
Aroclor-1260	100	U	100	36	ug/Kg		09/17/16 10:53	09/20/16 13:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*67*		*14 - 128*	*09/17/16 10:53*	*09/20/16 13:20*	*1*
DCB Decachlorobiphenyl	*93*		*10 - 132*	*09/17/16 10:53*	*09/20/16 13:20*	*1*

Lab Sample ID: LCS 240-247263/7-A
Matrix: Solid
Analysis Batch: 247525

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 247263

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor-1016			2000	1430		ug/Kg		71	47 - 120		
Aroclor-1260			2000	1660		ug/Kg		83	46 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*70*		*14 - 128*
DCB Decachlorobiphenyl	*92*		*10 - 132*

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69135-4

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	TCX2 (14-128)	DCB2 (10-132)								
240-69135-2	C-7878-090616-SSH-6127	91	111								
LCS 240-247263/7-A	Lab Control Sample	70	92								
MB 240-247263/6-A	Method Blank	67	93								

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69135-4

Client Sample ID: C-7878-090616-SSH-6127 — **Lab Sample ID: 240-69135-2**
Date Collected: 09/06/16 10:30 — **Matrix: Solid**
Date Received: 09/07/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	245784	09/07/16 16:33	JMB	TAL CAN

Client Sample ID: C-7878-090616-SSH-6127 — **Lab Sample ID: 240-69135-2**
Date Collected: 09/06/16 10:30 — **Matrix: Solid**
Date Received: 09/07/16 09:40 — **Percent Solids: 97.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			247263	09/17/16 10:53	SDE	TAL CAN
Total/NA	Analysis	8082		5	247525	09/20/16 11:48	LSH	TAL CAN

Laboratory References:

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

Certification Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69135-4

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 (WW)	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	09-14-16 *
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 Michigan
10448 Citation Drive
Suite 200
Brighton, MI 48116
Phone: 810.229.2763 Fax:

2.0/2.4

Chain of Custody Record

163311

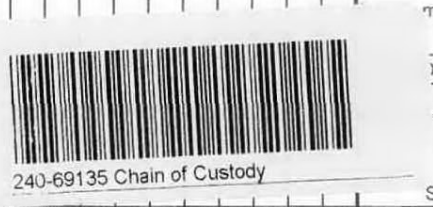
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TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other:

Client Contact	Project Manager: M. Tomka	Site Contact: JE Pardys	Date: 9/6/16	COC No: 163311
Company Name: GHD	Tel/Fax: 519 884 0510	Lab Contact: D. Heimbigner	Carrier: FedEx	1 of 1 COCs
Address: 14496 N. Sheldon Rd Ste 200	Analysis Turnaround Time			Sampler: S. Hoekmeyer
City/State/Zip: Plymouth MI 48170	☒ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 734 453 5123	TAT if different from Below 5 days			Walk-in Client:
Fax:	☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day			Sampling:
Project Name: RacerTrust SMI				
Site: SSOW 7B78-T01-D12				OG No.:
P O #				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs	Sample Specific Notes:
L-7B78-090616-SSH-6126	9/6/16	1020	G	L	1	N	N	X	
-6127		1030	G	L	1	N	N	X	
-6111		1040	G	L	1	N	N	X	
-6113		1050	G	L	1	N	N	X	
-6109		1100	G	L	1	N	N	X	
-6112		1110	G	L	1	N	N	X	
-6128		1120	G	L	1	N	N	X	
-6116		1130	G	L	1	N	N	X	
-6119		1140	G	L	1	N	N	X	
-6120		1150	G	L	1	N	N	X	
-6123		1200	G	L	1	N	N	X	
L-7B78-090616-SSH-6124		1210	G	L	1	N	N	X	

HOLD per GHD



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.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:
L-7B78-090616-SSH-6122 | 9/6/16 | 1220 | G | L | 1 | PCBs "Please include sample"

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.: 553749	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____	Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	GHD	9/6/16 1800			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: [signature]	Company: TAL Canton	Date/Time: 9/7/16 9:40

9/22/2016

TestAmerica Canton Sample Receipt Form/Narrative **Login # :** 69135
Canton Facility

Client GHD Site Name

Cooler Received on 9/7/16 Opened on 9/7/16

Cooler unpacked by:

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

TestAmerica Cooler # ~~Foam Box~~ Client Cooler Box Other

Packing material used: ~~Bubble Wrap~~ Foam Plastic Bag None Other

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form
   IR GUN# IR-8 (CF +0.4 °C) Observed Cooler Temp. 2.0 °C Corrected Cooler Temp 2.4 °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 1 Yes No
   -Were custody seals on the outside of the cooler(s) signed & dated? Yes No NA
   -Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels be reconciled with the COC? Yes No
9. Were correct bottle(s) used for the test(s) indicated? Yes No
10. Sufficient quantity received to perform indicated analyses? Yes No
11. Are these work share samples? Yes No
    If yes, Questions 11-15 have been checked at the originating laboratory.
11. Were sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# **HC574756**
12. Were VOAs on the COC? Yes No
13. Were air bubbles >6 mm in any VOA vials? Yes No NA
14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No
15. Was a LL Hg or Me Hg trip blank present? _____ Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____

Ref: SOP NC-SC-0005, Sample Receiving
L:\QAQC\QA Department\QA TARDIS\Document Control\Work Instructions\In Revision\WI-NC-099-090216 Cooler Receipt Form.doc djl

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: 240-69823-1
Client Project/Site: 7878, RACER SMI

For:
GHD Services Inc.
14496 Sheldon Road, Suite 200
Plymouth, Michigan 48170

Attn: Rawa Fleisher

Denise D Heckler

Authorized for release by:
9/28/2016 12:45:28 PM

Denise Heckler, Project Manager II
(330)966-9477
denise.heckler@testamericainc.com

LINKS

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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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Job ID: 240-69823-1

Laboratory: TestAmerica Canton

Narrative

Job Narrative
240-69823-1

Comments
No additional comments.

Receipt
The samples were received on 9/22/2016 9:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.2º C.

GC Semi VOA
Method(s) 8082: The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: C-7878-092116-SSH-K11-3 (240-69823-1), C-7878-092116-SSH-K11-5 (240-69823-2), C-7878-092116-SSH-K11-1 (240-69823-3), C-7878-092116-SSH-K10-7 (240-69823-5), C-7878-092116-SSH-K10-5 (240-69823-7) and C-7878-092116-SSH-K10-1 (240-69823-8). 2688696, 2103098, 2719938.

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

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

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

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

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
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)

Sample Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69823-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-69823-1	C-7878-092116-SSH-K11-3	Solid	09/21/16 13:00	09/22/16 09:10
240-69823-2	C-7878-092116-SSH-K11-5	Solid	09/21/16 13:10	09/22/16 09:10
240-69823-3	C-7878-092116-SSH-K11-1	Solid	09/21/16 13:20	09/22/16 09:10
240-69823-4	C-7878-092116-SSH-K11-7	Solid	09/21/16 13:30	09/22/16 09:10
240-69823-5	C-7878-092116-SSH-K10-7	Solid	09/21/16 14:20	09/22/16 09:10
240-69823-6	C-7878-092116-SSH-K10-3	Solid	09/21/16 14:30	09/22/16 09:10
240-69823-7	C-7878-092116-SSH-K10-5	Solid	09/21/16 14:40	09/22/16 09:10
240-69823-8	C-7878-092116-SSH-K10-1	Solid	09/21/16 14:50	09/22/16 09:10

Detection Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69823-1

Client Sample ID: C-7878-092116-SSH-K11-3 — Lab Sample ID: 240-69823-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	1300		100	29	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: C-7878-092116-SSH-K11-5 — Lab Sample ID: 240-69823-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	21000		1000	290	ug/Kg	10	☼	8082	Total/NA

Client Sample ID: C-7878-092116-SSH-K11-1 — Lab Sample ID: 240-69823-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	11000		1000	280	ug/Kg	10	☼	8082	Total/NA

Client Sample ID: C-7878-092116-SSH-K11-7 — Lab Sample ID: 240-69823-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	9100		1000	280	ug/Kg	10	☼	8082	Total/NA

Client Sample ID: C-7878-092116-SSH-K10-7 — Lab Sample ID: 240-69823-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	5600		1000	280	ug/Kg	10	☼	8082	Total/NA

Client Sample ID: C-7878-092116-SSH-K10-3 — Lab Sample ID: 240-69823-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	1300		100	28	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: C-7878-092116-SSH-K10-5 — Lab Sample ID: 240-69823-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	43000		5100	1400	ug/Kg	50	☼	8082	Total/NA

Client Sample ID: C-7878-092116-SSH-K10-1 — Lab Sample ID: 240-69823-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	8200		530	150	ug/Kg	5	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69823-1

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
Moisture	Percent Moisture	EPA	TAL CAN

Protocol References:

EPA = US Environmental Protection Agency

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

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69823-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-092116-SSH-K11-3
Date Collected: 09/21/16 13:00
Date Received: 09/22/16 09:10

Lab Sample ID: 240-69823-1
Matrix: Solid
Percent Solids: 95.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	100	U	100	49	ug/Kg	☼	09/24/16 10:14	09/27/16 08:54	1
Aroclor-1221	100	U	100	47	ug/Kg	☼	09/24/16 10:14	09/27/16 08:54	1
Aroclor-1232	100	U	100	33	ug/Kg	☼	09/24/16 10:14	09/27/16 08:54	1
Aroclor-1242	100	U	100	41	ug/Kg	☼	09/24/16 10:14	09/27/16 08:54	1
Aroclor-1248	100	U	100	35	ug/Kg	☼	09/24/16 10:14	09/27/16 08:54	1
Aroclor-1254	**1300**		100	29	ug/Kg	☼	09/24/16 10:14	09/27/16 08:54	1
Aroclor-1260	100	U	100	37	ug/Kg	☼	09/24/16 10:14	09/27/16 08:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*		*14 - 128*	*09/24/16 10:14*	*09/27/16 08:54*	*1*
DCB Decachlorobiphenyl	*82*		*10 - 132*	*09/24/16 10:14*	*09/27/16 08:54*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69823-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-092116-SSH-K11-5
Date Collected: 09/21/16 13:10
Date Received: 09/22/16 09:10

Lab Sample ID: 240-69823-2
Matrix: Solid
Percent Solids: 95.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	1000	U	1000	490	ug/Kg	☼	09/24/16 10:14	09/27/16 09:13	10
Aroclor-1221	1000	U	1000	470	ug/Kg	☼	09/24/16 10:14	09/27/16 09:13	10
Aroclor-1232	1000	U	1000	330	ug/Kg	☼	09/24/16 10:14	09/27/16 09:13	10
Aroclor-1242	1000	U	1000	410	ug/Kg	☼	09/24/16 10:14	09/27/16 09:13	10
Aroclor-1248	1000	U	1000	350	ug/Kg	☼	09/24/16 10:14	09/27/16 09:13	10
Aroclor-1254	**21000**		1000	290	ug/Kg	☼	09/24/16 10:14	09/27/16 09:13	10
Aroclor-1260	1000	U	1000	370	ug/Kg	☼	09/24/16 10:14	09/27/16 09:13	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*14 - 128*	*09/24/16 10:14*	*09/27/16 09:13*	*10*
DCB Decachlorobiphenyl	*110*		*10 - 132*	*09/24/16 10:14*	*09/27/16 09:13*	*10*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69823-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-092116-SSH-K11-1
Date Collected: 09/21/16 13:20
Date Received: 09/22/16 09:10

Lab Sample ID: 240-69823-3
Matrix: Solid
Percent Solids: 97.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	1000	U	1000	480	ug/Kg	☼	09/24/16 10:14	09/27/16 09:31	10
Aroclor-1221	1000	U	1000	460	ug/Kg	☼	09/24/16 10:14	09/27/16 09:31	10
Aroclor-1232	1000	U	1000	320	ug/Kg	☼	09/24/16 10:14	09/27/16 09:31	10
Aroclor-1242	1000	U	1000	400	ug/Kg	☼	09/24/16 10:14	09/27/16 09:31	10
Aroclor-1248	1000	U	1000	340	ug/Kg	☼	09/24/16 10:14	09/27/16 09:31	10
Aroclor-1254	**11000**		1000	280	ug/Kg	☼	09/24/16 10:14	09/27/16 09:31	10
Aroclor-1260	1000	U	1000	360	ug/Kg	☼	09/24/16 10:14	09/27/16 09:31	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*70*		*14 - 128*	*09/24/16 10:14*	*09/27/16 09:31*	*10*
DCB Decachlorobiphenyl	*100*		*10 - 132*	*09/24/16 10:14*	*09/27/16 09:31*	*10*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69823-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-092116-SSH-K11-7
Date Collected: 09/21/16 13:30
Date Received: 09/22/16 09:10

Lab Sample ID: 240-69823-4
Matrix: Solid
Percent Solids: 97.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	1000	U	1000	480	ug/Kg	☼	09/24/16 10:14	09/27/16 09:50	10
Aroclor-1221	1000	U	1000	460	ug/Kg	☼	09/24/16 10:14	09/27/16 09:50	10
Aroclor-1232	1000	U	1000	320	ug/Kg	☼	09/24/16 10:14	09/27/16 09:50	10
Aroclor-1242	1000	U	1000	400	ug/Kg	☼	09/24/16 10:14	09/27/16 09:50	10
Aroclor-1248	1000	U	1000	340	ug/Kg	☼	09/24/16 10:14	09/27/16 09:50	10
Aroclor-1254	**9100**		1000	280	ug/Kg	☼	09/24/16 10:14	09/27/16 09:50	10
Aroclor-1260	1000	U	1000	360	ug/Kg	☼	09/24/16 10:14	09/27/16 09:50	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*83*		*14 - 128*	*09/24/16 10:14*	*09/27/16 09:50*	*10*
DCB Decachlorobiphenyl	*104*		*10 - 132*	*09/24/16 10:14*	*09/27/16 09:50*	*10*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69823-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-092116-SSH-K10-7
Date Collected: 09/21/16 14:20
Date Received: 09/22/16 09:10

Lab Sample ID: 240-69823-5
Matrix: Solid
Percent Solids: 97.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	1000	U	1000	480	ug/Kg	☼	09/24/16 10:14	09/27/16 10:08	10
Aroclor-1221	1000	U	1000	460	ug/Kg	☼	09/24/16 10:14	09/27/16 10:08	10
Aroclor-1232	1000	U	1000	320	ug/Kg	☼	09/24/16 10:14	09/27/16 10:08	10
Aroclor-1242	1000	U	1000	400	ug/Kg	☼	09/24/16 10:14	09/27/16 10:08	10
Aroclor-1248	1000	U	1000	340	ug/Kg	☼	09/24/16 10:14	09/27/16 10:08	10
Aroclor-1254	**5600**		1000	280	ug/Kg	☼	09/24/16 10:14	09/27/16 10:08	10
Aroclor-1260	1000	U	1000	360	ug/Kg	☼	09/24/16 10:14	09/27/16 10:08	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*64*		*14 - 128*	*09/24/16 10:14*	*09/27/16 10:08*	*10*
DCB Decachlorobiphenyl	*98*		*10 - 132*	*09/24/16 10:14*	*09/27/16 10:08*	*10*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69823-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-092116-SSH-K10-3
Date Collected: 09/21/16 14:30
Date Received: 09/22/16 09:10

Lab Sample ID: 240-69823-6
Matrix: Solid
Percent Solids: 97.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	100	U	100	48	ug/Kg	☼	09/24/16 10:14	09/27/16 10:26	1
Aroclor-1221	100	U	100	46	ug/Kg	☼	09/24/16 10:14	09/27/16 10:26	1
Aroclor-1232	100	U	100	32	ug/Kg	☼	09/24/16 10:14	09/27/16 10:26	1
Aroclor-1242	100	U	100	40	ug/Kg	☼	09/24/16 10:14	09/27/16 10:26	1
Aroclor-1248	100	U	100	34	ug/Kg	☼	09/24/16 10:14	09/27/16 10:26	1
Aroclor-1254	**1300**		100	28	ug/Kg	☼	09/24/16 10:14	09/27/16 10:26	1
Aroclor-1260	100	U	100	36	ug/Kg	☼	09/24/16 10:14	09/27/16 10:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*69*		*14 - 128*	*09/24/16 10:14*	*09/27/16 10:26*	*1*
DCB Decachlorobiphenyl	*97*	*p*	*10 - 132*	*09/24/16 10:14*	*09/27/16 10:26*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69823-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-092116-SSH-K10-5
Date Collected: 09/21/16 14:40
Date Received: 09/22/16 09:10

Lab Sample ID: 240-69823-7
Matrix: Solid
Percent Solids: 95.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	5100	U	5100	2500	ug/Kg	☼	09/24/16 10:14	09/27/16 10:45	50
Aroclor-1221	5100	U	5100	2400	ug/Kg	☼	09/24/16 10:14	09/27/16 10:45	50
Aroclor-1232	5100	U	5100	1600	ug/Kg	☼	09/24/16 10:14	09/27/16 10:45	50
Aroclor-1242	5100	U	5100	2000	ug/Kg	☼	09/24/16 10:14	09/27/16 10:45	50
Aroclor-1248	5100	U	5100	1700	ug/Kg	☼	09/24/16 10:14	09/27/16 10:45	50
Aroclor-1254	**43000**		5100	1400	ug/Kg	☼	09/24/16 10:14	09/27/16 10:45	50
Aroclor-1260	5100	U	5100	1800	ug/Kg	☼	09/24/16 10:14	09/27/16 10:45	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*14 - 128*	*09/24/16 10:14*	*09/27/16 10:45*	*50*
DCB Decachlorobiphenyl	*119*	*p*	*10 - 132*	*09/24/16 10:14*	*09/27/16 10:45*	*50*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69823-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-092116-SSH-K10-1
Date Collected: 09/21/16 14:50
Date Received: 09/22/16 09:10

Lab Sample ID: 240-69823-8
Matrix: Solid
Percent Solids: 94.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	530	U	530	250	ug/Kg	☼	09/24/16 10:14	09/27/16 11:03	5
Aroclor-1221	530	U	530	240	ug/Kg	☼	09/24/16 10:14	09/27/16 11:03	5
Aroclor-1232	530	U	530	170	ug/Kg	☼	09/24/16 10:14	09/27/16 11:03	5
Aroclor-1242	530	U	530	210	ug/Kg	☼	09/24/16 10:14	09/27/16 11:03	5
Aroclor-1248	530	U	530	180	ug/Kg	☼	09/24/16 10:14	09/27/16 11:03	5
Aroclor-1254	**8200**		530	150	ug/Kg	☼	09/24/16 10:14	09/27/16 11:03	5
Aroclor-1260	530	U	530	190	ug/Kg	☼	09/24/16 10:14	09/27/16 11:03	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*69*		*14 - 128*	*09/24/16 10:14*	*09/27/16 11:03*	*5*
DCB Decachlorobiphenyl	*121*		*10 - 132*	*09/24/16 10:14*	*09/27/16 11:03*	*5*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69823-1

General Chemistry

Client Sample ID: C-7878-092116-SSH-K11-3
Date Collected: 09/21/16 13:00
Date Received: 09/22/16 09:10

Lab Sample ID: 240-69823-1
Matrix: Solid
Percent Solids: 95.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	95.7		0.1	0.1	%			09/23/16 15:32	1
Percent Moisture	4.3		0.1	0.1	%			09/23/16 15:32	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69823-1

General Chemistry

Client Sample ID: C-7878-092116-SSH-K11-5
Date Collected: 09/21/16 13:10
Date Received: 09/22/16 09:10

Lab Sample ID: 240-69823-2
Matrix: Solid
Percent Solids: 95.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	95.8		0.1	0.1	%			09/23/16 15:32	1
Percent Moisture	4.2		0.1	0.1	%			09/23/16 15:32	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69823-1

General Chemistry

Client Sample ID: C-7878-092116-SSH-K11-1
Date Collected: 09/21/16 13:20
Date Received: 09/22/16 09:10

Lab Sample ID: 240-69823-3
Matrix: Solid
Percent Solids: 97.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97.4		0.1	0.1	%			09/23/16 15:32	1
Percent Moisture	2.6		0.1	0.1	%			09/23/16 15:32	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69823-1

General Chemistry

Client Sample ID: C-7878-092116-SSH-K11-7
Date Collected: 09/21/16 13:30
Date Received: 09/22/16 09:10

Lab Sample ID: 240-69823-4
Matrix: Solid
Percent Solids: 97.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97.9		0.1	0.1	%			09/23/16 15:32	1
Percent Moisture	2.1		0.1	0.1	%			09/23/16 15:32	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69823-1

General Chemistry

Client Sample ID: C-7878-092116-SSH-K10-7
Date Collected: 09/21/16 14:20
Date Received: 09/22/16 09:10

Lab Sample ID: 240-69823-5
Matrix: Solid
Percent Solids: 97.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97.2		0.1	0.1	%			09/23/16 15:32	1
Percent Moisture	2.8		0.1	0.1	%			09/23/16 15:32	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69823-1

General Chemistry

Client Sample ID: C-7878-092116-SSH-K10-3
Date Collected: 09/21/16 14:30
Date Received: 09/22/16 09:10

Lab Sample ID: 240-69823-6
Matrix: Solid
Percent Solids: 97.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97.8		0.1	0.1	%			09/23/16 15:32	1
Percent Moisture	2.2		0.1	0.1	%			09/23/16 15:32	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69823-1

General Chemistry

Client Sample ID: C-7878-092116-SSH-K10-5
Date Collected: 09/21/16 14:40
Date Received: 09/22/16 09:10

Lab Sample ID: 240-69823-7
Matrix: Solid
Percent Solids: 95.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	95.8		0.1	0.1	%			09/23/16 15:32	1
Percent Moisture	4.2		0.1	0.1	%			09/23/16 15:32	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69823-1

General Chemistry

Client Sample ID: C-7878-092116-SSH-K10-1
Date Collected: 09/21/16 14:50
Date Received: 09/22/16 09:10

Lab Sample ID: 240-69823-8
Matrix: Solid
Percent Solids: 94.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	94.8		0.1	0.1	%			09/23/16 15:32	1
Percent Moisture	5.2		0.1	0.1	%			09/23/16 15:32	1

QC Association Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69823-1

GC Semi VOA

Processed Batch: 248210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-69823-1	C-7878-092116-SSH-K11-3	Total/NA	Solid	Part Size Red	
240-69823-2	C-7878-092116-SSH-K11-5	Total/NA	Solid	Part Size Red	
240-69823-3	C-7878-092116-SSH-K11-1	Total/NA	Solid	Part Size Red	
240-69823-4	C-7878-092116-SSH-K11-7	Total/NA	Solid	Part Size Red	
240-69823-5	C-7878-092116-SSH-K10-7	Total/NA	Solid	Part Size Red	
240-69823-6	C-7878-092116-SSH-K10-3	Total/NA	Solid	Part Size Red	
240-69823-7	C-7878-092116-SSH-K10-5	Total/NA	Solid	Part Size Red	
240-69823-8	C-7878-092116-SSH-K10-1	Total/NA	Solid	Part Size Red	

Prep Batch: 248254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-69823-1	C-7878-092116-SSH-K11-3	Total/NA	Solid	3540C	248210
240-69823-2	C-7878-092116-SSH-K11-5	Total/NA	Solid	3540C	248210
240-69823-3	C-7878-092116-SSH-K11-1	Total/NA	Solid	3540C	248210
240-69823-4	C-7878-092116-SSH-K11-7	Total/NA	Solid	3540C	248210
240-69823-5	C-7878-092116-SSH-K10-7	Total/NA	Solid	3540C	248210
240-69823-6	C-7878-092116-SSH-K10-3	Total/NA	Solid	3540C	248210
240-69823-7	C-7878-092116-SSH-K10-5	Total/NA	Solid	3540C	248210
240-69823-8	C-7878-092116-SSH-K10-1	Total/NA	Solid	3540C	248210
MB 240-248254/18-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-248254/19-A	Lab Control Sample	Total/NA	Solid	3540C	

Analysis Batch: 248510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-69823-1	C-7878-092116-SSH-K11-3	Total/NA	Solid	8082	248254
240-69823-2	C-7878-092116-SSH-K11-5	Total/NA	Solid	8082	248254
240-69823-3	C-7878-092116-SSH-K11-1	Total/NA	Solid	8082	248254
240-69823-4	C-7878-092116-SSH-K11-7	Total/NA	Solid	8082	248254
240-69823-5	C-7878-092116-SSH-K10-7	Total/NA	Solid	8082	248254
240-69823-6	C-7878-092116-SSH-K10-3	Total/NA	Solid	8082	248254
240-69823-7	C-7878-092116-SSH-K10-5	Total/NA	Solid	8082	248254
240-69823-8	C-7878-092116-SSH-K10-1	Total/NA	Solid	8082	248254
MB 240-248254/18-A	Method Blank	Total/NA	Solid	8082	248254
LCS 240-248254/19-A	Lab Control Sample	Total/NA	Solid	8082	248254

General Chemistry

Processed Batch: 248210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-69823-1	C-7878-092116-SSH-K11-3	Total/NA	Solid	Part Size Red	
240-69823-2	C-7878-092116-SSH-K11-5	Total/NA	Solid	Part Size Red	
240-69823-3	C-7878-092116-SSH-K11-1	Total/NA	Solid	Part Size Red	
240-69823-4	C-7878-092116-SSH-K11-7	Total/NA	Solid	Part Size Red	
240-69823-5	C-7878-092116-SSH-K10-7	Total/NA	Solid	Part Size Red	
240-69823-6	C-7878-092116-SSH-K10-3	Total/NA	Solid	Part Size Red	
240-69823-7	C-7878-092116-SSH-K10-5	Total/NA	Solid	Part Size Red	
240-69823-8	C-7878-092116-SSH-K10-1	Total/NA	Solid	Part Size Red	
240-69823-2 DU	C-7878-092116-SSH-K11-5	Total/NA	Solid	Part Size Red	

General Chemistry (Continued)

Analysis Batch: 248213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-69823-1	C-7878-092116-SSH-K11-3	Total/NA	Solid	Moisture	248210
240-69823-2	C-7878-092116-SSH-K11-5	Total/NA	Solid	Moisture	248210
240-69823-3	C-7878-092116-SSH-K11-1	Total/NA	Solid	Moisture	248210
240-69823-4	C-7878-092116-SSH-K11-7	Total/NA	Solid	Moisture	248210
240-69823-5	C-7878-092116-SSH-K10-7	Total/NA	Solid	Moisture	248210
240-69823-6	C-7878-092116-SSH-K10-3	Total/NA	Solid	Moisture	248210
240-69823-7	C-7878-092116-SSH-K10-5	Total/NA	Solid	Moisture	248210
240-69823-8	C-7878-092116-SSH-K10-1	Total/NA	Solid	Moisture	248210
240-69823-2 DU	C-7878-092116-SSH-K11-5	Total/NA	Solid	Moisture	248210

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-248254/18-A
Matrix: Solid
Analysis Batch: 248510

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 248254

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	100	U	100	48	ug/Kg		09/24/16 10:14	09/27/16 12:17	1
Aroclor-1221	100	U	100	46	ug/Kg		09/24/16 10:14	09/27/16 12:17	1
Aroclor-1232	100	U	100	32	ug/Kg		09/24/16 10:14	09/27/16 12:17	1
Aroclor-1242	100	U	100	40	ug/Kg		09/24/16 10:14	09/27/16 12:17	1
Aroclor-1248	100	U	100	34	ug/Kg		09/24/16 10:14	09/27/16 12:17	1
Aroclor-1254	100	U	100	28	ug/Kg		09/24/16 10:14	09/27/16 12:17	1
Aroclor-1260	100	U	100	36	ug/Kg		09/24/16 10:14	09/27/16 12:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*55*		*14 - 128*	*09/24/16 10:14*	*09/27/16 12:17*	*1*
DCB Decachlorobiphenyl	*69*		*10 - 132*	*09/24/16 10:14*	*09/27/16 12:17*	*1*

Lab Sample ID: LCS 240-248254/19-A
Matrix: Solid
Analysis Batch: 248510

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 248254

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor-1016			2000	1040		ug/Kg		52	47 - 120		
Aroclor-1260			2000	1240		ug/Kg		62	46 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*50*		*14 - 128*
DCB Decachlorobiphenyl	*67*		*10 - 132*

Method: Moisture - Percent Moisture

Lab Sample ID: 240-69823-2 DU
Matrix: Solid
Analysis Batch: 248213

Client Sample ID: C-7878-092116-SSH-K11-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Solids	95.8			96.4		%				0.6	20
Percent Moisture	4.2			3.6		%				14	20

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69823-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX2 (14-128)	DCB2 (10-132)
240-69823-1	C-7878-092116-SSH-K11-3	68	82
240-69823-2	C-7878-092116-SSH-K11-5	79	110
240-69823-3	C-7878-092116-SSH-K11-1	70	100
240-69823-4	C-7878-092116-SSH-K11-7	83	104
240-69823-5	C-7878-092116-SSH-K10-7	64	98
240-69823-6	C-7878-092116-SSH-K10-3	69	97 p
240-69823-7	C-7878-092116-SSH-K10-5	79	119 p
240-69823-8	C-7878-092116-SSH-K10-1	69	121
LCS 240-248254/19-A	Lab Control Sample	50	67
MB 240-248254/18-A	Method Blank	55	69

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69823-1

Client Sample ID: C-7878-092116-SSH-K11-3
Lab Sample ID: 240-69823-1
Date Collected: 09/21/16 13:00
Matrix: Solid
Date Received: 09/22/16 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			248210	09/23/16 10:00	BH	TAL CAN
Total/NA	Analysis	Moisture		1	248213	09/23/16 15:32	JMB	TAL CAN

Client Sample ID: C-7878-092116-SSH-K11-3
Lab Sample ID: 240-69823-1
Date Collected: 09/21/16 13:00
Matrix: Solid
Date Received: 09/22/16 09:10
Percent Solids: 95.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			248210	09/23/16 10:00	BH	TAL CAN
Total/NA	Prep	3540C			248254	09/24/16 10:14	SDE	TAL CAN
Total/NA	Analysis	8082		1	248510	09/27/16 08:54	CSC	TAL CAN

Client Sample ID: C-7878-092116-SSH-K11-5
Lab Sample ID: 240-69823-2
Date Collected: 09/21/16 13:10
Matrix: Solid
Date Received: 09/22/16 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			248210	09/23/16 10:00	BH	TAL CAN
Total/NA	Analysis	Moisture		1	248213	09/23/16 15:32	JMB	TAL CAN

Client Sample ID: C-7878-092116-SSH-K11-5
Lab Sample ID: 240-69823-2
Date Collected: 09/21/16 13:10
Matrix: Solid
Date Received: 09/22/16 09:10
Percent Solids: 95.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			248210	09/23/16 10:00	BH	TAL CAN
Total/NA	Prep	3540C			248254	09/24/16 10:14	SDE	TAL CAN
Total/NA	Analysis	8082		10	248510	09/27/16 09:13	CSC	TAL CAN

Client Sample ID: C-7878-092116-SSH-K11-1
Lab Sample ID: 240-69823-3
Date Collected: 09/21/16 13:20
Matrix: Solid
Date Received: 09/22/16 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			248210	09/23/16 10:00	BH	TAL CAN
Total/NA	Analysis	Moisture		1	248213	09/23/16 15:32	JMB	TAL CAN

Client Sample ID: C-7878-092116-SSH-K11-1
Lab Sample ID: 240-69823-3
Date Collected: 09/21/16 13:20
Matrix: Solid
Date Received: 09/22/16 09:10
Percent Solids: 97.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			248210	09/23/16 10:00	BH	TAL CAN

Client Sample ID: C-7878-092116-SSH-K11-1
Lab Sample ID: 240-69823-3
Date Collected: 09/21/16 13:20
Matrix: Solid
Date Received: 09/22/16 09:10
Percent Solids: 97.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			248254	09/24/16 10:14	SDE	TAL CAN
Total/NA	Analysis	8082		10	248510	09/27/16 09:31	CSC	TAL CAN

Client Sample ID: C-7878-092116-SSH-K11-7
Lab Sample ID: 240-69823-4
Date Collected: 09/21/16 13:30
Matrix: Solid
Date Received: 09/22/16 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			248210	09/23/16 10:00	BH	TAL CAN
Total/NA	Analysis	Moisture		1	248213	09/23/16 15:32	JMB	TAL CAN

Client Sample ID: C-7878-092116-SSH-K11-7
Lab Sample ID: 240-69823-4
Date Collected: 09/21/16 13:30
Matrix: Solid
Date Received: 09/22/16 09:10
Percent Solids: 97.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			248210	09/23/16 10:00	BH	TAL CAN
Total/NA	Prep	3540C			248254	09/24/16 10:14	SDE	TAL CAN
Total/NA	Analysis	8082		10	248510	09/27/16 09:50	CSC	TAL CAN

Client Sample ID: C-7878-092116-SSH-K10-7
Lab Sample ID: 240-69823-5
Date Collected: 09/21/16 14:20
Matrix: Solid
Date Received: 09/22/16 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			248210	09/23/16 10:00	BH	TAL CAN
Total/NA	Analysis	Moisture		1	248213	09/23/16 15:32	JMB	TAL CAN

Client Sample ID: C-7878-092116-SSH-K10-7
Lab Sample ID: 240-69823-5
Date Collected: 09/21/16 14:20
Matrix: Solid
Date Received: 09/22/16 09:10
Percent Solids: 97.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			248210	09/23/16 10:00	BH	TAL CAN
Total/NA	Prep	3540C			248254	09/24/16 10:14	SDE	TAL CAN
Total/NA	Analysis	8082		10	248510	09/27/16 10:08	CSC	TAL CAN

Client Sample ID: C-7878-092116-SSH-K10-3
Lab Sample ID: 240-69823-6
Date Collected: 09/21/16 14:30
Matrix: Solid
Date Received: 09/22/16 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			248210	09/23/16 10:00	BH	TAL CAN

Client Sample ID: C-7878-092116-SSH-K10-3
Lab Sample ID: 240-69823-6
Date Collected: 09/21/16 14:30
Matrix: Solid
Date Received: 09/22/16 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	248213	09/23/16 15:32	JMB	TAL CAN

Client Sample ID: C-7878-092116-SSH-K10-3
Lab Sample ID: 240-69823-6
Date Collected: 09/21/16 14:30
Matrix: Solid
Date Received: 09/22/16 09:10
Percent Solids: 97.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			248210	09/23/16 10:00	BH	TAL CAN
Total/NA	Prep	3540C			248254	09/24/16 10:14	SDE	TAL CAN
Total/NA	Analysis	8082		1	248510	09/27/16 10:26	CSC	TAL CAN

Client Sample ID: C-7878-092116-SSH-K10-5
Lab Sample ID: 240-69823-7
Date Collected: 09/21/16 14:40
Matrix: Solid
Date Received: 09/22/16 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			248210	09/23/16 10:00	BH	TAL CAN
Total/NA	Analysis	Moisture		1	248213	09/23/16 15:32	JMB	TAL CAN

Client Sample ID: C-7878-092116-SSH-K10-5
Lab Sample ID: 240-69823-7
Date Collected: 09/21/16 14:40
Matrix: Solid
Date Received: 09/22/16 09:10
Percent Solids: 95.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			248210	09/23/16 10:00	BH	TAL CAN
Total/NA	Prep	3540C			248254	09/24/16 10:14	SDE	TAL CAN
Total/NA	Analysis	8082		50	248510	09/27/16 10:45	CSC	TAL CAN

Client Sample ID: C-7878-092116-SSH-K10-1
Lab Sample ID: 240-69823-8
Date Collected: 09/21/16 14:50
Matrix: Solid
Date Received: 09/22/16 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			248210	09/23/16 10:00	BH	TAL CAN
Total/NA	Analysis	Moisture		1	248213	09/23/16 15:32	JMB	TAL CAN

Client Sample ID: C-7878-092116-SSH-K10-1
Lab Sample ID: 240-69823-8
Date Collected: 09/21/16 14:50
Matrix: Solid
Date Received: 09/22/16 09:10
Percent Solids: 94.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			248210	09/23/16 10:00	BH	TAL CAN
Total/NA	Prep	3540C			248254	09/24/16 10:14	SDE	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69823-1

Client Sample ID: C-7878-092116-SSH-K10-1
Date Collected: 09/21/16 14:50
Date Received: 09/22/16 09:10

Lab Sample ID: 240-69823-8
Matrix: Solid
Percent Solids: 94.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8082		5	248510	09/27/16 11:03	CSC	TAL CAN

Laboratory References:

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

Certification Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69823-1

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 (WW)	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	09-14-16 *
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 Michigan
10448 Citation Drive
Suite 200
Brighton, MI 48116
Phone: 810.229.2763 Fax:

2.8/C3.2

Chain of Custody Record

163417

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other:

Client Contact	Project Manager: M. Tomka	Site Contact: JF ParAys	Date: 9/21/16	COC No: 163417 / 163419
Company Name: GHD	Tel/Fax: 517 884 0510	Lab Contact: D. Heckle	Carrier: FedEx	1 of 2 COCs
Address: 14496 N. Sheldon Rd Ste 200	Analysis Turnaround Time			Sampler: S. Hoewelyk
City/State/Zip: Plymouth MI 48170	☒ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 734 453 5123	(TAT) different from Below			Walk-in Client:
Fax:	☐ 2 weeks 5 days			Lab Sampling:
Project Name: RacTrust SMI	☐ 1 week			Job / SDG No.:
Site: SSOW 7878-T01-012	☐ 2 days			
PO #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs	Sample Specific Notes:
C-7878-092116-SSH-K11-3	9/21/16	1300	G	C	1	N	N	X	
-K11-5		1310	G	C	1	N	N	X	
-K11-1		1320	G	C	1	N	N	X	
-K11-7		1330	G	C	1	N	N	X	
C-7878-092116-SSH-K10-7		1420	G	C	1	N	N	X	
-K10-3		1430	G	C	1	N	N	X	
-K10-5		1440	G	C	1	N	N	X	
-K10-1		1450	G	C	1	N	N	X	
SSH									



Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1

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.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: 959402 | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	GHD	9/21/16 1700	[signature]	TA	9-22-16 910
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

9/28/2016

TestAmerica Canton Sample Receipt Form/Narrative Login # : 609873

Canton Facility

Client GHD Site Name

Cooler Received on 9-22-16 Opened on 9-22-16

Cooler unpacked by:

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

TestAmerica Cooler # Foam Box Client Cooler Box Other

Packing material used: Bubble Wrap Foam Plastic Bag None Other

COOLANT: Wet Ice Blue Ice Dry Ice Water None

☐ See Multiple Cooler Form

1. Cooler temperature upon receipt
   IR GUN# IR-8 (CF +0.4 °C) Observed Cooler Temp. 2.8 °C Corrected Cooler Temp. 3.2 °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 1 Yes No
   -Were custody seals on the outside of the cooler(s) signed & dated? Yes No NA
   -Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels be reconciled with the COC? Yes No
9. Were correct bottle(s) used for the test(s) indicated? Yes No
10. Sufficient quantity received to perform indicated analyses? Yes No
11. Are these work share samples? Yes No
    If yes, Questions 11-15 have been checked at the originating laboratory.
11. Were sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# **HC574756**
12. Were VOAs on the COC? Yes No
13. Were air bubbles >6 mm in any VOA vials? Yes No NA
14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # Yes No
15. Was a LL Hg or Me Hg trip blank present? Yes No

Contacted PM Date by via Verbal Voice Mail Other

Concerning

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

15. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.

Sample(s) were received in a broken container.

Sample(s) were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory.

Time preserved: Preservative(s) added/Lot number(s):

Ref: SOP NC-SC-0005, Sample Receiving

L:\QAQC\QA Department\QA TARDIS\Document Control\Work Instructions\In Revision\WI-NC-099-090216 Cooler Receipt Form.doc djl

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: 240-69825-1
Client Project/Site: 7878, RACER SMI

For:
GHD Services Inc.
14496 Sheldon Road, Suite 200
Plymouth, Michigan 48170

Attn: Rawa Fleisher

Denise D Heckler

Authorized for release by:
9/28/2016 12:50:45 PM

Denise Heckler, Project Manager II
(330)966-9477
denise.heckler@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: 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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Job ID: 240-69825-1

Laboratory: TestAmerica Canton

Narrative

Job Narrative
240-69825-1

Comments
No additional comments.

Receipt
The samples were received on 9/22/2016 9:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.2º C.

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

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

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

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
X	Surrogate is outside control limits

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
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)

Sample Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69825-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-69825-1	C-7878-092116-SSH-6141	Solid	09/21/16 10:10	09/22/16 09:10
240-69825-3	C-7878-092116-SSH-6140	Solid	09/21/16 10:30	09/22/16 09:10
240-69825-5	C-7878-092116-SSH-6143	Solid	09/21/16 10:50	09/22/16 09:10
240-69825-8	C-7878-092116-SSH-6136	Solid	09/21/16 11:40	09/22/16 09:10
240-69825-9	C-7878-092116-SSH-6132	Solid	09/21/16 11:50	09/22/16 09:10
240-69825-11	C-7878-092116-SSH-6131	Solid	09/21/16 12:10	09/22/16 09:10

Detection Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69825-1

Client Sample ID: C-7878-092116-SSH-6141 — Lab Sample ID: 240-69825-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	450000		51000	14000	ug/Kg	500	☼	8082	Total/NA

Client Sample ID: C-7878-092116-SSH-6140 — Lab Sample ID: 240-69825-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	450000		51000	14000	ug/Kg	500	☼	8082	Total/NA

Client Sample ID: C-7878-092116-SSH-6143 — Lab Sample ID: 240-69825-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	170000		11000	3100	ug/Kg	100	☼	8082	Total/NA

Client Sample ID: C-7878-092116-SSH-6136 — Lab Sample ID: 240-69825-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	110000		10000	2900	ug/Kg	100	☼	8082	Total/NA

Client Sample ID: C-7878-092116-SSH-6132 — Lab Sample ID: 240-69825-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	80000		10000	2800	ug/Kg	100	☼	8082	Total/NA

Client Sample ID: C-7878-092116-SSH-6131 — Lab Sample ID: 240-69825-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	35000		5300	1500	ug/Kg	50	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69825-1

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
Moisture	Percent Moisture	EPA	TAL CAN

Protocol References:

EPA = US Environmental Protection Agency

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

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-092116-SSH-6141
Date Collected: 09/21/16 10:10
Date Received: 09/22/16 09:10

Lab Sample ID: 240-69825-1
Matrix: Solid
Percent Solids: 96.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	51000	U	51000	25000	ug/Kg	☼	09/24/16 10:14	09/27/16 07:04	500
Aroclor-1221	51000	U	51000	24000	ug/Kg	☼	09/24/16 10:14	09/27/16 07:04	500
Aroclor-1232	51000	U	51000	16000	ug/Kg	☼	09/24/16 10:14	09/27/16 07:04	500
Aroclor-1242	51000	U	51000	21000	ug/Kg	☼	09/24/16 10:14	09/27/16 07:04	500
Aroclor-1248	51000	U	51000	17000	ug/Kg	☼	09/24/16 10:14	09/27/16 07:04	500
Aroclor-1254	**450000**		51000	14000	ug/Kg	☼	09/24/16 10:14	09/27/16 07:04	500
Aroclor-1260	51000	U	51000	18000	ug/Kg	☼	09/24/16 10:14	09/27/16 07:04	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*99*		*14 - 128*	*09/24/16 10:14*	*09/27/16 07:04*	*500*
DCB Decachlorobiphenyl	*197*	*X*	*10 - 132*	*09/24/16 10:14*	*09/27/16 07:04*	*500*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69825-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-092116-SSH-6140
Date Collected: 09/21/16 10:30
Date Received: 09/22/16 09:10

Lab Sample ID: 240-69825-3
Matrix: Solid
Percent Solids: 96.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	51000	U	51000	25000	ug/Kg	☼	09/24/16 10:14	09/27/16 07:23	500
Aroclor-1221	51000	U	51000	24000	ug/Kg	☼	09/24/16 10:14	09/27/16 07:23	500
Aroclor-1232	51000	U	51000	16000	ug/Kg	☼	09/24/16 10:14	09/27/16 07:23	500
Aroclor-1242	51000	U	51000	21000	ug/Kg	☼	09/24/16 10:14	09/27/16 07:23	500
Aroclor-1248	51000	U	51000	17000	ug/Kg	☼	09/24/16 10:14	09/27/16 07:23	500
Aroclor-1254	**450000**		51000	14000	ug/Kg	☼	09/24/16 10:14	09/27/16 07:23	500
Aroclor-1260	51000	U	51000	19000	ug/Kg	☼	09/24/16 10:14	09/27/16 07:23	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*63*		*14 - 128*	*09/24/16 10:14*	*09/27/16 07:23*	*500*
DCB Decachlorobiphenyl	*82*		*10 - 132*	*09/24/16 10:14*	*09/27/16 07:23*	*500*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69825-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-092116-SSH-6143
Date Collected: 09/21/16 10:50
Date Received: 09/22/16 09:10

Lab Sample ID: 240-69825-5
Matrix: Solid
Percent Solids: 85.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	11000	U	11000	5400	ug/Kg	☼	09/24/16 10:14	09/27/16 07:41	100
Aroclor-1221	11000	U	11000	5200	ug/Kg	☼	09/24/16 10:14	09/27/16 07:41	100
Aroclor-1232	11000	U	11000	3600	ug/Kg	☼	09/24/16 10:14	09/27/16 07:41	100
Aroclor-1242	11000	U	11000	4500	ug/Kg	☼	09/24/16 10:14	09/27/16 07:41	100
Aroclor-1248	11000	U	11000	3800	ug/Kg	☼	09/24/16 10:14	09/27/16 07:41	100
Aroclor-1254	**170000**		11000	3100	ug/Kg	☼	09/24/16 10:14	09/27/16 07:41	100
Aroclor-1260	11000	U	11000	4000	ug/Kg	☼	09/24/16 10:14	09/27/16 07:41	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*87*		*14 - 128*	*09/24/16 10:14*	*09/27/16 07:41*	*100*
DCB Decachlorobiphenyl	*138*	*X*	*10 - 132*	*09/24/16 10:14*	*09/27/16 07:41*	*100*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69825-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-092116-SSH-6136
Date Collected: 09/21/16 11:40
Date Received: 09/22/16 09:10

Lab Sample ID: 240-69825-8
Matrix: Solid
Percent Solids: 94.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	10000	U	10000	5000	ug/Kg	☼	09/24/16 10:14	09/27/16 07:59	100
Aroclor-1221	10000	U	10000	4800	ug/Kg	☼	09/24/16 10:14	09/27/16 07:59	100
Aroclor-1232	10000	U	10000	3400	ug/Kg	☼	09/24/16 10:14	09/27/16 07:59	100
Aroclor-1242	10000	U	10000	4200	ug/Kg	☼	09/24/16 10:14	09/27/16 07:59	100
Aroclor-1248	10000	U	10000	3600	ug/Kg	☼	09/24/16 10:14	09/27/16 07:59	100
Aroclor-1254	**110000**		10000	2900	ug/Kg	☼	09/24/16 10:14	09/27/16 07:59	100
Aroclor-1260	10000	U	10000	3800	ug/Kg	☼	09/24/16 10:14	09/27/16 07:59	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*91*		*14 - 128*	*09/24/16 10:14*	*09/27/16 07:59*	*100*
DCB Decachlorobiphenyl	*148*	*X*	*10 - 132*	*09/24/16 10:14*	*09/27/16 07:59*	*100*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69825-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-092116-SSH-6132
Date Collected: 09/21/16 11:50
Date Received: 09/22/16 09:10

Lab Sample ID: 240-69825-9
Matrix: Solid
Percent Solids: 96.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	10000	U	10000	4800	ug/Kg	☼	09/24/16 10:14	09/27/16 08:18	100
Aroclor-1221	10000	U	10000	4600	ug/Kg	☼	09/24/16 10:14	09/27/16 08:18	100
Aroclor-1232	10000	U	10000	3200	ug/Kg	☼	09/24/16 10:14	09/27/16 08:18	100
Aroclor-1242	10000	U	10000	4000	ug/Kg	☼	09/24/16 10:14	09/27/16 08:18	100
Aroclor-1248	10000	U	10000	3400	ug/Kg	☼	09/24/16 10:14	09/27/16 08:18	100
Aroclor-1254	**80000**		10000	2800	ug/Kg	☼	09/24/16 10:14	09/27/16 08:18	100
Aroclor-1260	10000	U	10000	3600	ug/Kg	☼	09/24/16 10:14	09/27/16 08:18	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*99*		*14 - 128*	*09/24/16 10:14*	*09/27/16 08:18*	*100*
DCB Decachlorobiphenyl	*160*	*X*	*10 - 132*	*09/24/16 10:14*	*09/27/16 08:18*	*100*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-092116-SSH-6131
Date Collected: 09/21/16 12:10
Date Received: 09/22/16 09:10

Lab Sample ID: 240-69825-11
Matrix: Solid
Percent Solids: 92.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	5300	U	5300	2500	ug/Kg	☼	09/24/16 10:14	09/27/16 08:36	50
Aroclor-1221	5300	U	5300	2400	ug/Kg	☼	09/24/16 10:14	09/27/16 08:36	50
Aroclor-1232	5300	U	5300	1700	ug/Kg	☼	09/24/16 10:14	09/27/16 08:36	50
Aroclor-1242	5300	U	5300	2100	ug/Kg	☼	09/24/16 10:14	09/27/16 08:36	50
Aroclor-1248	5300	U	5300	1800	ug/Kg	☼	09/24/16 10:14	09/27/16 08:36	50
Aroclor-1254	**35000**		5300	1500	ug/Kg	☼	09/24/16 10:14	09/27/16 08:36	50
Aroclor-1260	5300	U	5300	1900	ug/Kg	☼	09/24/16 10:14	09/27/16 08:36	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*14 - 128*	*09/24/16 10:14*	*09/27/16 08:36*	*50*
DCB Decachlorobiphenyl	*117*		*10 - 132*	*09/24/16 10:14*	*09/27/16 08:36*	*50*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69825-1

General Chemistry

Client Sample ID: C-7878-092116-SSH-6141
Date Collected: 09/21/16 10:10
Date Received: 09/22/16 09:10

Lab Sample ID: 240-69825-1
Matrix: Solid
Percent Solids: 96.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96.6		0.1	0.1	%			09/23/16 14:51	1
Percent Moisture	3.4		0.1	0.1	%			09/23/16 14:51	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69825-1

General Chemistry

Client Sample ID: C-7878-092116-SSH-6140
Date Collected: 09/21/16 10:30
Date Received: 09/22/16 09:10

Lab Sample ID: 240-69825-3
Matrix: Solid
Percent Solids: 96.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96.4		0.1	0.1	%			09/23/16 14:51	1
Percent Moisture	3.6		0.1	0.1	%			09/23/16 14:51	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69825-1

General Chemistry

Client Sample ID: C-7878-092116-SSH-6143
Date Collected: 09/21/16 10:50
Date Received: 09/22/16 09:10

Lab Sample ID: 240-69825-5
Matrix: Solid
Percent Solids: 85.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	85.9		0.1	0.1	%			09/23/16 14:51	1
Percent Moisture	14.1		0.1	0.1	%			09/23/16 14:51	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69825-1

General Chemistry

Client Sample ID: C-7878-092116-SSH-6136
Date Collected: 09/21/16 11:40
Date Received: 09/22/16 09:10

Lab Sample ID: 240-69825-8
Matrix: Solid
Percent Solids: 94.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	94.8		0.1	0.1	%			09/23/16 14:51	1
Percent Moisture	5.2		0.1	0.1	%			09/23/16 14:51	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69825-1

General Chemistry

Client Sample ID: C-7878-092116-SSH-6132
Date Collected: 09/21/16 11:50
Date Received: 09/22/16 09:10

Lab Sample ID: 240-69825-9
Matrix: Solid
Percent Solids: 96.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96.2		0.1	0.1	%			09/23/16 14:51	1
Percent Moisture	3.8		0.1	0.1	%			09/23/16 14:51	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69825-1

General Chemistry

Client Sample ID: C-7878-092116-SSH-6131
Date Collected: 09/21/16 12:10
Date Received: 09/22/16 09:10

Lab Sample ID: 240-69825-11
Matrix: Solid
Percent Solids: 92.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	92.3		0.1	0.1	%			09/23/16 14:51	1
Percent Moisture	7.7		0.1	0.1	%			09/23/16 14:51	1

QC Association Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69825-1

GC Semi VOA

Prep Batch: 248254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-69825-1	C-7878-092116-SSH-6141	Total/NA	Solid	3540C	
240-69825-3	C-7878-092116-SSH-6140	Total/NA	Solid	3540C	
240-69825-5	C-7878-092116-SSH-6143	Total/NA	Solid	3540C	
240-69825-8	C-7878-092116-SSH-6136	Total/NA	Solid	3540C	
240-69825-9	C-7878-092116-SSH-6132	Total/NA	Solid	3540C	
240-69825-11	C-7878-092116-SSH-6131	Total/NA	Solid	3540C	
MB 240-248254/18-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-248254/19-A	Lab Control Sample	Total/NA	Solid	3540C	

Analysis Batch: 248510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-69825-1	C-7878-092116-SSH-6141	Total/NA	Solid	8082	248254
240-69825-3	C-7878-092116-SSH-6140	Total/NA	Solid	8082	248254
240-69825-5	C-7878-092116-SSH-6143	Total/NA	Solid	8082	248254
240-69825-8	C-7878-092116-SSH-6136	Total/NA	Solid	8082	248254
240-69825-9	C-7878-092116-SSH-6132	Total/NA	Solid	8082	248254
240-69825-11	C-7878-092116-SSH-6131	Total/NA	Solid	8082	248254
MB 240-248254/18-A	Method Blank	Total/NA	Solid	8082	248254
LCS 240-248254/19-A	Lab Control Sample	Total/NA	Solid	8082	248254

General Chemistry

Analysis Batch: 248213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-69825-1	C-7878-092116-SSH-6141	Total/NA	Solid	Moisture	
240-69825-3	C-7878-092116-SSH-6140	Total/NA	Solid	Moisture	
240-69825-5	C-7878-092116-SSH-6143	Total/NA	Solid	Moisture	
240-69825-8	C-7878-092116-SSH-6136	Total/NA	Solid	Moisture	
240-69825-9	C-7878-092116-SSH-6132	Total/NA	Solid	Moisture	
240-69825-11	C-7878-092116-SSH-6131	Total/NA	Solid	Moisture	
240-69825-3 DU	C-7878-092116-SSH-6140	Total/NA	Solid	Moisture	

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-248254/18-A
Matrix: Solid
Analysis Batch: 248510

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 248254

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	100	U	100	48	ug/Kg		09/24/16 10:14	09/27/16 12:17	1
Aroclor-1221	100	U	100	46	ug/Kg		09/24/16 10:14	09/27/16 12:17	1
Aroclor-1232	100	U	100	32	ug/Kg		09/24/16 10:14	09/27/16 12:17	1
Aroclor-1242	100	U	100	40	ug/Kg		09/24/16 10:14	09/27/16 12:17	1
Aroclor-1248	100	U	100	34	ug/Kg		09/24/16 10:14	09/27/16 12:17	1
Aroclor-1254	100	U	100	28	ug/Kg		09/24/16 10:14	09/27/16 12:17	1
Aroclor-1260	100	U	100	36	ug/Kg		09/24/16 10:14	09/27/16 12:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*55*		*14 - 128*	*09/24/16 10:14*	*09/27/16 12:17*	*1*
DCB Decachlorobiphenyl	*69*		*10 - 132*	*09/24/16 10:14*	*09/27/16 12:17*	*1*

Lab Sample ID: LCS 240-248254/19-A
Matrix: Solid
Analysis Batch: 248510

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 248254

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor-1016			2000	1040		ug/Kg		52	47 - 120		
Aroclor-1260			2000	1240		ug/Kg		62	46 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*50*		*14 - 128*
DCB Decachlorobiphenyl	*67*		*10 - 132*

Method: Moisture - Percent Moisture

Lab Sample ID: 240-69825-3 DU
Matrix: Solid
Analysis Batch: 248213

Client Sample ID: C-7878-092116-SSH-6140
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Solids	96.4			96.4		%				0	20
Percent Moisture	3.6			3.6		%				0.7	20

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69825-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	TCX2 (14-128)	DCB2 (10-132)								
240-69825-1	C-7878-092116-SSH-6141	99	197 X								
240-69825-3	C-7878-092116-SSH-6140	63	82								
240-69825-5	C-7878-092116-SSH-6143	87	138 X								
240-69825-8	C-7878-092116-SSH-6136	91	148 X								
240-69825-9	C-7878-092116-SSH-6132	99	160 X								
240-69825-11	C-7878-092116-SSH-6131	79	117								
LCS 240-248254/19-A	Lab Control Sample	50	67								
MB 240-248254/18-A	Method Blank	55	69								

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69825-1

Client Sample ID: C-7878-092116-SSH-6141
Lab Sample ID: 240-69825-1
Date Collected: 09/21/16 10:10
Matrix: Solid
Date Received: 09/22/16 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	248213	09/23/16 14:51	JMB	TAL CAN

Client Sample ID: C-7878-092116-SSH-6141
Lab Sample ID: 240-69825-1
Date Collected: 09/21/16 10:10
Matrix: Solid
Date Received: 09/22/16 09:10
Percent Solids: 96.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			248254	09/24/16 10:14	SDE	TAL CAN
Total/NA	Analysis	8082		500	248510	09/27/16 07:04	CSC	TAL CAN

Client Sample ID: C-7878-092116-SSH-6140
Lab Sample ID: 240-69825-3
Date Collected: 09/21/16 10:30
Matrix: Solid
Date Received: 09/22/16 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	248213	09/23/16 14:51	JMB	TAL CAN

Client Sample ID: C-7878-092116-SSH-6140
Lab Sample ID: 240-69825-3
Date Collected: 09/21/16 10:30
Matrix: Solid
Date Received: 09/22/16 09:10
Percent Solids: 96.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			248254	09/24/16 10:14	SDE	TAL CAN
Total/NA	Analysis	8082		500	248510	09/27/16 07:23	CSC	TAL CAN

Client Sample ID: C-7878-092116-SSH-6143
Lab Sample ID: 240-69825-5
Date Collected: 09/21/16 10:50
Matrix: Solid
Date Received: 09/22/16 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	248213	09/23/16 14:51	JMB	TAL CAN

Client Sample ID: C-7878-092116-SSH-6143
Lab Sample ID: 240-69825-5
Date Collected: 09/21/16 10:50
Matrix: Solid
Date Received: 09/22/16 09:10
Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			248254	09/24/16 10:14	SDE	TAL CAN
Total/NA	Analysis	8082		100	248510	09/27/16 07:41	CSC	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69825-1

Client Sample ID: C-7878-092116-SSH-6136
Lab Sample ID: 240-69825-8
Date Collected: 09/21/16 11:40
Matrix: Solid
Date Received: 09/22/16 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	248213	09/23/16 14:51	JMB	TAL CAN

Client Sample ID: C-7878-092116-SSH-6136
Lab Sample ID: 240-69825-8
Date Collected: 09/21/16 11:40
Matrix: Solid
Date Received: 09/22/16 09:10
Percent Solids: 94.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			248254	09/24/16 10:14	SDE	TAL CAN
Total/NA	Analysis	8082		100	248510	09/27/16 07:59	CSC	TAL CAN

Client Sample ID: C-7878-092116-SSH-6132
Lab Sample ID: 240-69825-9
Date Collected: 09/21/16 11:50
Matrix: Solid
Date Received: 09/22/16 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	248213	09/23/16 14:51	JMB	TAL CAN

Client Sample ID: C-7878-092116-SSH-6132
Lab Sample ID: 240-69825-9
Date Collected: 09/21/16 11:50
Matrix: Solid
Date Received: 09/22/16 09:10
Percent Solids: 96.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			248254	09/24/16 10:14	SDE	TAL CAN
Total/NA	Analysis	8082		100	248510	09/27/16 08:18	CSC	TAL CAN

Client Sample ID: C-7878-092116-SSH-6131
Lab Sample ID: 240-69825-11
Date Collected: 09/21/16 12:10
Matrix: Solid
Date Received: 09/22/16 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	248213	09/23/16 14:51	JMB	TAL CAN

Client Sample ID: C-7878-092116-SSH-6131
Lab Sample ID: 240-69825-11
Date Collected: 09/21/16 12:10
Matrix: Solid
Date Received: 09/22/16 09:10
Percent Solids: 92.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			248254	09/24/16 10:14	SDE	TAL CAN
Total/NA	Analysis	8082		50	248510	09/27/16 08:36	CSC	TAL CAN

Laboratory References:

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

Certification Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69825-1

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 (WW)	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	09-14-16 *
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 Michigan
10448 Citation Drive
Suite 200
Brighton, MI 48116
Phone: 810.229.2763 Fax:

2.8/C3.2

Chain of Custody Record

163413

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other:

Client Contact	Project Manager: M. Tomka	Site Contact: JE Pardyc	Date: 9/21/16	COC No: 163413
Company Name: GHA	Tel/Fax: 517 884 0510	Lab Contact: D. Heckler	Carrier: FedEx	1 of 1 COCs
Address: 14496 N Sheldon Rd Ste 200	Analysis Turnaround Time			Sampler: S. Hoevemeyer
City/State/Zip: Plymouth MI	☒ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 734 453 5123	TAT if different from Below 5 days			Walk-in Client:
Fax:	☐ 2 weeks			
Project Name: RawTust SMI	☐ 1 week			
Site: SSOW 7878-T01-012	☐ 2 days			
PO #	☐ 1 day			



Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	PCBs	Sample Specific Notes:
C-7878-092116-SSH-6141	9/21/16	1010	G	C	1	N	N	X	
-6142		1020	G	C	1	N	N	X	Hold
-6140		1030	G	C	1	N	N	X	
-6137		1040	G	C	1	N	N	X	Hold
-6143		1050	G	C	1	N	N	X	
-6139		1120	G	C	1	N	N	X	Hold
-6144		1130	G	C	1	N	N	X	Hold
-6136		1140	G	C	1	N	N	X	
-6132		1150	G	C	1	N	N	X	Hold
-6133		1200	G	C	1	N	N	X	Hold
-6131		1210	G	C	1	N	N	X	
C-7878-092116-SSH-6134		1220	G	C	1	N	N	X	Hold

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.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:
raining during collection of 6132, 6133, 6131, 6134

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.: 959402	Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	GHA	9/21/16 1700	[signature]	TA	9/22/16 910
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

TestAmerica Canton Sample Receipt Form/Narrative **Login # : i9825**
Canton Facility

Client GHD Site Name

Cooler Received on 9-22-16 Opened on 9-22-16

Cooler unpacked by:

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

TestAmerica Cooler # Foam Box Client Cooler Box Other

Packing material used: Bubble Wrap Foam Plastic Bag None Other

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form
   IR GUN# IR-8 (CF +0.4 °C) Observed Cooler Temp. 2.8 °C Corrected Cooler Temp. 3.2 °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 1 Yes No
   -Were custody seals on the outside of the cooler(s) signed & dated? Yes No NA
   -Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels be reconciled with the COC? Yes No
9. Were correct bottle(s) used for the test(s) indicated? Yes No
10. Sufficient quantity received to perform indicated analyses? Yes No
11. Are these work share samples? Yes No
    If yes, Questions 11-15 have been checked at the originating laboratory.
11. Were sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# **HC574756**
12. Were VOAs on the COC? Yes No
13. Were air bubbles >6 mm in any VOA vials? Yes No NA
14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # Yes No
15. Was a LL Hg or Me Hg trip blank present? Yes No

Contacted PM Date by via Verbal Voice Mail Other

Concerning

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

15. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.
Sample(s) were received in a broken container.
Sample(s) were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory.
Time preserved: Preservative(s) added/Lot number(s):

TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-69820-2
Client Project/Site: 7878, RACER SMI

For:
GHD Services Inc.
14496 Sheldon Road, Suite 200
Plymouth, Michigan 48170

Attn: Rawa Fleisher

Denise D Heckler

Authorized for release by:
10/4/2016 4:01:55 PM

Denise Heckler, Project Manager II
(330)966-9477
denise.heckler@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: 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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Job ID: 240-69820-2

Laboratory: TestAmerica Canton

Narrative

Job Narrative
240-69820-2

Comments
Select samples were taken off hold by GHD on September 28, 2016.

Receipt
The samples were received on 9/22/2016 9:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.2º C.

GC Semi VOA
Method(s) 8082: The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: C-7878-092116-SSH-K11-6 (240-69820-2), C-7878-092116-SSH-K11-2 (240-69820-3) and C-7878-092116-SSH-K10-6 (240-69820-7). 2710186, 2103100, 2719942.

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: C-7878-092116-SSH-K11-6 (240-69820-2). Due to the poor match with the Aroclor standards, there is increased qualitative and quantitative uncertainty associated with this result.

Method(s) 8082: The following sample was diluted due to the nature of the sample matrix: C-7878-092116-SSH-K10-6 (240-69820-7). 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.

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

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

Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69820-2

Qualifiers

GC Semi 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.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

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
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)

Sample Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69820-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-69820-2	C-7878-092116-SSH-K11-6	Solid	09/21/16 13:50	09/22/16 09:10
240-69820-3	C-7878-092116-SSH-K11-2	Solid	09/21/16 14:00	09/22/16 09:10
240-69820-7	C-7878-092116-SSH-K10-6	Solid	09/21/16 15:20	09/22/16 09:10

Detection Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69820-2

Client Sample ID: C-7878-092116-SSH-K11-6 — Lab Sample ID: 240-69820-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	5400		1100	300	ug/Kg	10	☼	8082	Total/NA

Client Sample ID: C-7878-092116-SSH-K11-2 — Lab Sample ID: 240-69820-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	10000		2000	570	ug/Kg	20	☼	8082	Total/NA

Client Sample ID: C-7878-092116-SSH-K10-6 — Lab Sample ID: 240-69820-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	270	J	510	140	ug/Kg	5	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69820-2

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
Moisture	Percent Moisture	EPA	TAL CAN

Protocol References:

EPA = US Environmental Protection Agency

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

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-092116-SSH-K11-6
Date Collected: 09/21/16 13:50
Date Received: 09/22/16 09:10

Lab Sample ID: 240-69820-2
Matrix: Solid
Percent Solids: 93.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	1100	U	1100	510	ug/Kg	☼	10/01/16 13:17	10/04/16 08:10	10
Aroclor-1221	1100	U	1100	490	ug/Kg	☼	10/01/16 13:17	10/04/16 08:10	10
Aroclor-1232	1100	U	1100	340	ug/Kg	☼	10/01/16 13:17	10/04/16 08:10	10
Aroclor-1242	1100	U	1100	430	ug/Kg	☼	10/01/16 13:17	10/04/16 08:10	10
Aroclor-1248	1100	U	1100	360	ug/Kg	☼	10/01/16 13:17	10/04/16 08:10	10
Aroclor-1254	**5400**		1100	300	ug/Kg	☼	10/01/16 13:17	10/04/16 08:10	10
Aroclor-1260	1100	U	1100	380	ug/Kg	☼	10/01/16 13:17	10/04/16 08:10	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*77*		*14 - 128*	*10/01/16 13:17*	*10/04/16 08:10*	*10*
DCB Decachlorobiphenyl	*103*		*10 - 132*	*10/01/16 13:17*	*10/04/16 08:10*	*10*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69820-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-092116-SSH-K11-2
Date Collected: 09/21/16 14:00
Date Received: 09/22/16 09:10

Lab Sample ID: 240-69820-3
Matrix: Solid
Percent Solids: 96.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2000	U	2000	970	ug/Kg	☼	10/01/16 13:17	10/04/16 08:27	20
Aroclor-1221	2000	U	2000	930	ug/Kg	☼	10/01/16 13:17	10/04/16 08:27	20
Aroclor-1232	2000	U	2000	650	ug/Kg	☼	10/01/16 13:17	10/04/16 08:27	20
Aroclor-1242	2000	U	2000	810	ug/Kg	☼	10/01/16 13:17	10/04/16 08:27	20
Aroclor-1248	2000	U	2000	690	ug/Kg	☼	10/01/16 13:17	10/04/16 08:27	20
Aroclor-1254	**10000**		2000	570	ug/Kg	☼	10/01/16 13:17	10/04/16 08:27	20
Aroclor-1260	2000	U	2000	730	ug/Kg	☼	10/01/16 13:17	10/04/16 08:27	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*61*		*14 - 128*	*10/01/16 13:17*	*10/04/16 08:27*	*20*
DCB Decachlorobiphenyl	*89*		*10 - 132*	*10/01/16 13:17*	*10/04/16 08:27*	*20*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69820-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-092116-SSH-K10-6
Date Collected: 09/21/16 15:20
Date Received: 09/22/16 09:10

Lab Sample ID: 240-69820-7
Matrix: Solid
Percent Solids: 95.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	510	U	510	240	ug/Kg	☼	10/01/16 13:17	10/04/16 11:42	5
Aroclor-1221	510	U	510	230	ug/Kg	☼	10/01/16 13:17	10/04/16 11:42	5
Aroclor-1232	510	U	510	160	ug/Kg	☼	10/01/16 13:17	10/04/16 11:42	5
Aroclor-1242	510	U	510	200	ug/Kg	☼	10/01/16 13:17	10/04/16 11:42	5
Aroclor-1248	510	U	510	170	ug/Kg	☼	10/01/16 13:17	10/04/16 11:42	5
Aroclor-1254	**270**	**J**	510	140	ug/Kg	☼	10/01/16 13:17	10/04/16 11:42	5
Aroclor-1260	510	U	510	180	ug/Kg	☼	10/01/16 13:17	10/04/16 11:42	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*		*14 - 128*	*10/01/16 13:17*	*10/04/16 11:42*	*5*
DCB Decachlorobiphenyl	*69*		*10 - 132*	*10/01/16 13:17*	*10/04/16 11:42*	*5*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69820-2

General Chemistry

Client Sample ID: C-7878-092116-SSH-K11-6
Date Collected: 09/21/16 13:50
Date Received: 09/22/16 09:10

Lab Sample ID: 240-69820-2
Matrix: Solid
Percent Solids: 93.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	93.7		0.1	0.1	%			09/26/16 08:49	1
Percent Moisture	6.3		0.1	0.1	%			09/26/16 08:49	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69820-2

General Chemistry

Client Sample ID: C-7878-092116-SSH-K11-2
Date Collected: 09/21/16 14:00
Date Received: 09/22/16 09:10

Lab Sample ID: 240-69820-3
Matrix: Solid
Percent Solids: 96.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96.2		0.1	0.1	%			09/26/16 08:49	1
Percent Moisture	3.8		0.1	0.1	%			09/26/16 08:49	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69820-2

General Chemistry

Client Sample ID: C-7878-092116-SSH-K10-6
Date Collected: 09/21/16 15:20
Date Received: 09/22/16 09:10

Lab Sample ID: 240-69820-7
Matrix: Solid
Percent Solids: 95.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	95.3		0.1	0.1	%			09/26/16 08:49	1
Percent Moisture	4.7		0.1	0.1	%			09/26/16 08:49	1

QC Association Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69820-2

GC Semi VOA

Processed Batch: 248210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-69820-2	C-7878-092116-SSH-K11-6	Total/NA	Solid	Part Size Red	
240-69820-3	C-7878-092116-SSH-K11-2	Total/NA	Solid	Part Size Red	
240-69820-7	C-7878-092116-SSH-K10-6	Total/NA	Solid	Part Size Red	

Prep Batch: 249344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-69820-2	C-7878-092116-SSH-K11-6	Total/NA	Solid	3540C	248210
240-69820-3	C-7878-092116-SSH-K11-2	Total/NA	Solid	3540C	248210
240-69820-7	C-7878-092116-SSH-K10-6	Total/NA	Solid	3540C	248210
MB 240-249344/6-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-249344/7-A	Lab Control Sample	Total/NA	Solid	3540C	

Analysis Batch: 249611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-69820-2	C-7878-092116-SSH-K11-6	Total/NA	Solid	8082	249344
240-69820-3	C-7878-092116-SSH-K11-2	Total/NA	Solid	8082	249344
240-69820-7	C-7878-092116-SSH-K10-6	Total/NA	Solid	8082	249344
MB 240-249344/6-A	Method Blank	Total/NA	Solid	8082	249344
MB 240-249344/6-A	Method Blank	Total/NA	Solid	8082	249344
LCS 240-249344/7-A	Lab Control Sample	Total/NA	Solid	8082	249344
LCS 240-249344/7-A	Lab Control Sample	Total/NA	Solid	8082	249344

General Chemistry

Processed Batch: 248210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-69820-2	C-7878-092116-SSH-K11-6	Total/NA	Solid	Part Size Red	
240-69820-3	C-7878-092116-SSH-K11-2	Total/NA	Solid	Part Size Red	
240-69820-7	C-7878-092116-SSH-K10-6	Total/NA	Solid	Part Size Red	
240-69820-2 DU	C-7878-092116-SSH-K11-6	Total/NA	Solid	Part Size Red	

Analysis Batch: 248370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-69820-2	C-7878-092116-SSH-K11-6	Total/NA	Solid	Moisture	248210
240-69820-3	C-7878-092116-SSH-K11-2	Total/NA	Solid	Moisture	248210
240-69820-7	C-7878-092116-SSH-K10-6	Total/NA	Solid	Moisture	248210
240-69820-2 DU	C-7878-092116-SSH-K11-6	Total/NA	Solid	Moisture	248210

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-249344/6-A
Matrix: Solid
Analysis Batch: 249611

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 249344

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	100	U	100	48	ug/Kg		10/01/16 11:41	10/04/16 07:35	1
Aroclor-1221	100	U	100	46	ug/Kg		10/01/16 11:41	10/04/16 07:35	1
Aroclor-1232	100	U	100	32	ug/Kg		10/01/16 11:41	10/04/16 07:35	1
Aroclor-1242	100	U	100	40	ug/Kg		10/01/16 11:41	10/04/16 07:35	1
Aroclor-1248	100	U	100	34	ug/Kg		10/01/16 11:41	10/04/16 07:35	1
Aroclor-1254	100	U	100	28	ug/Kg		10/01/16 11:41	10/04/16 07:35	1
Aroclor-1260	100	U	100	36	ug/Kg		10/01/16 11:41	10/04/16 07:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*76*	*p*	*14 - 128*	*10/01/16 11:41*	*10/04/16 07:35*	*1*
DCB Decachlorobiphenyl	*103*		*10 - 132*	*10/01/16 11:41*	*10/04/16 07:35*	*1*

Lab Sample ID: MB 240-249344/6-A
Matrix: Solid
Analysis Batch: 249611

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 249344

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	100	U	100	48	ug/Kg		10/01/16 11:41	10/04/16 10:31	1
Aroclor-1221	100	U	100	46	ug/Kg		10/01/16 11:41	10/04/16 10:31	1
Aroclor-1232	100	U	100	32	ug/Kg		10/01/16 11:41	10/04/16 10:31	1
Aroclor-1242	100	U	100	40	ug/Kg		10/01/16 11:41	10/04/16 10:31	1
Aroclor-1248	100	U	100	34	ug/Kg		10/01/16 11:41	10/04/16 10:31	1
Aroclor-1254	100	U	100	28	ug/Kg		10/01/16 11:41	10/04/16 10:31	1
Aroclor-1260	100	U	100	36	ug/Kg		10/01/16 11:41	10/04/16 10:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*	*p*	*14 - 128*	*10/01/16 11:41*	*10/04/16 10:31*	*1*
DCB Decachlorobiphenyl	*88*		*10 - 132*	*10/01/16 11:41*	*10/04/16 10:31*	*1*

Lab Sample ID: LCS 240-249344/7-A
Matrix: Solid
Analysis Batch: 249611

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 249344

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor-1016			2000	1510		ug/Kg		76	47 - 120		
Aroclor-1260			2000	1690		ug/Kg		84	46 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*87*		*14 - 128*
DCB Decachlorobiphenyl	*90*		*10 - 132*

Lab Sample ID: LCS 240-249344/7-A
Matrix: Solid
Analysis Batch: 249611

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 249344

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor-1016			2000	1380		ug/Kg		69	47 - 120		

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 240-249344/7-A
Matrix: Solid
Analysis Batch: 249611

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 249344

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor-1260			2000	1560		ug/Kg		78	46 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*80*		*14 - 128*
DCB Decachlorobiphenyl	*83*		*10 - 132*

Method: Moisture - Percent Moisture

Lab Sample ID: 240-69820-2 DU
Matrix: Solid
Analysis Batch: 248370

Client Sample ID: C-7878-092116-SSH-K11-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Solids	93.7			94.0		%				0.3	20
Percent Moisture	6.3			6.0		%				5	20

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69820-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	TCX1 (14-128)	DCB1 (10-132)								
240-69820-2	C-7878-092116-SSH-K11-6	77	103								
240-69820-3	C-7878-092116-SSH-K11-2	61	89								
240-69820-7	C-7878-092116-SSH-K10-6	68	69								
LCS 240-249344/7-A	Lab Control Sample	87	90								
LCS 240-249344/7-A	Lab Control Sample	80	83								
MB 240-249344/6-A	Method Blank	68 p	88								
MB 240-249344/6-A	Method Blank	76 p	103								

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69820-2

Client Sample ID: C-7878-092116-SSH-K11-6
Lab Sample ID: 240-69820-2
Date Collected: 09/21/16 13:50
Matrix: Solid
Date Received: 09/22/16 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			248210	09/23/16 10:00	BH	TAL CAN
Total/NA	Analysis	Moisture		1	248370	09/26/16 08:49	DTN	TAL CAN

Client Sample ID: C-7878-092116-SSH-K11-6
Lab Sample ID: 240-69820-2
Date Collected: 09/21/16 13:50
Matrix: Solid
Date Received: 09/22/16 09:10
Percent Solids: 93.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			248210	09/23/16 10:00	BH	TAL CAN
Total/NA	Prep	3540C			249344	10/01/16 13:17	SDE	TAL CAN
Total/NA	Analysis	8082		10	249611	10/04/16 08:10	KMG	TAL CAN

Client Sample ID: C-7878-092116-SSH-K11-2
Lab Sample ID: 240-69820-3
Date Collected: 09/21/16 14:00
Matrix: Solid
Date Received: 09/22/16 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			248210	09/23/16 10:00	BH	TAL CAN
Total/NA	Analysis	Moisture		1	248370	09/26/16 08:49	DTN	TAL CAN

Client Sample ID: C-7878-092116-SSH-K11-2
Lab Sample ID: 240-69820-3
Date Collected: 09/21/16 14:00
Matrix: Solid
Date Received: 09/22/16 09:10
Percent Solids: 96.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			248210	09/23/16 10:00	BH	TAL CAN
Total/NA	Prep	3540C			249344	10/01/16 13:17	SDE	TAL CAN
Total/NA	Analysis	8082		20	249611	10/04/16 08:27	KMG	TAL CAN

Client Sample ID: C-7878-092116-SSH-K10-6
Lab Sample ID: 240-69820-7
Date Collected: 09/21/16 15:20
Matrix: Solid
Date Received: 09/22/16 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			248210	09/23/16 10:00	BH	TAL CAN
Total/NA	Analysis	Moisture		1	248370	09/26/16 08:49	DTN	TAL CAN

Client Sample ID: C-7878-092116-SSH-K10-6
Lab Sample ID: 240-69820-7
Date Collected: 09/21/16 15:20
Matrix: Solid
Date Received: 09/22/16 09:10
Percent Solids: 95.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			248210	09/23/16 10:00	BH	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69820-2

Client Sample ID: C-7878-092116-SSH-K10-6 — **Lab Sample ID: 240-69820-7**
Date Collected: 09/21/16 15:20 — **Matrix: Solid**
Date Received: 09/22/16 09:10 — **Percent Solids: 95.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			249344	10/01/16 13:17	SDE	TAL CAN
Total/NA	Analysis	8082		5	249611	10/04/16 11:42	KMG	TAL CAN

Laboratory References:

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

Certification Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69820-2

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 (WW)	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	09-14-16 *
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 Michigan
10448 Citation Drive
Suite 200
Brighton, MI 48116
Phone: 810.229.2763 Fax:

Chain of Custody Record

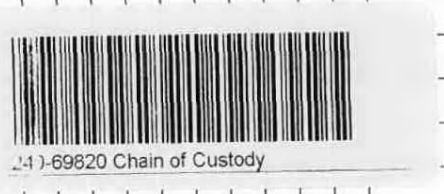
163419

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other:

Client Contact	Project Manager: M. Tomka	Site Contact: JE Pardys	Date: 9/21/16	COC No: 163419, 163417
Company Name: GHD	Tel/Fax: 519 884 0510	Lab Contact: D. Heath	Carrier: FedEx	2 of 2 COCs
Address:	Analysis Turnaround Time			Sampler: S. Hovenkotter
City/State/Zip:	☒ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone:	TAT if different from Below 5 days			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: RawTrust SMI	☐ 1 week			
Site: SSOW 7878 - TO1 - 012	☐ 2 days			Job / SDG No.:
PO #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs	Sample Specific Notes:
C-7878-092116-SSH-M11-4	9/21/16	1340	G	C	1	N	N	X	HOLD
-M11-6		1350	G	C	1	N	N	X	
-M11-2		1400	G	C	1	N	N	X	
-M11-8		1410	G	C	1	N	N	X	
C-7878-092116-SSH-M10-8		1500	G	C	1	N	N	X	
-M10-4		1510	G	C	1	N	N	X	
-M10-6		1520	G	C	1	N	N	X	
-M10-2		1530	G	C	1	N	N	X	
SSH									



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.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: Hold per GHD per COC 163417

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: 959402 | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ | Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	GHD	9/21/16 1700	[signature]	TA	9-22-16 910
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

TestAmerica Canton Sample Receipt Form/Narrative **Login # : 109820**

Canton Facility

Client GHD Site Name

Cooler Received on 9-22-16 Opened on 9-22-16

Cooler unpacked by:

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

TestAmerica Cooler # Foam Box Client Cooler Box Other

Packing material used: Bubble Wrap Foam Plastic Bag None Other

COOLANT: Wet Ice Blue Ice Dry Ice Water None

☐ See Multiple Cooler Form

1. Cooler temperature upon receipt
   IR GUN# IR-8 (CF +0.4 °C) Observed Cooler Temp. 2.8 °C Corrected Cooler Temp. 3.2 °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 1 Yes No
   -Were custody seals on the outside of the cooler(s) signed & dated? Yes No NA
   -Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels be reconciled with the COC? Yes No
9. Were correct bottle(s) used for the test(s) indicated? Yes No
10. Sufficient quantity received to perform indicated analyses? Yes No
11. Are these work share samples? Yes No
    If yes, Questions 11-15 have been checked at the originating laboratory.
11. Were sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# **HC574756**
12. Were VOAs on the COC? Yes No
13. Were air bubbles >6 mm in any VOA vials? Yes No NA
14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # Yes No
15. Was a LL Hg or Me Hg trip blank present? Yes No

Contacted PM Date by via Verbal Voice Mail Other

Concerning

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

15. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.

Sample(s) were received in a broken container.

Sample(s) were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory.

Time preserved: Preservative(s) added/Lot number(s):

Ref: SOP NC-SC-0005, Sample Receiving

L:\QAQC\QA Department\QA TARDIS\Document Control\Work Instructions\In Revision\WI-NC-099-090216 Cooler Receipt Form.doc djl

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: 240-69820-2
Client Project/Site: 7878, RACER SMI

For:
GHD Services Inc.
14496 Sheldon Road, Suite 200
Plymouth, Michigan 48170

Attn: Rawa Fleisher

Denise D Heckler

Authorized for release by:
10/4/2016 4:01:55 PM

Denise Heckler, Project Manager II
(330)966-9477
denise.heckler@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: 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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Lab Chronicle 18
Certification Summary 20
Chain of Custody 21

Job ID: 240-69820-2

Laboratory: TestAmerica Canton

Narrative

Job Narrative
240-69820-2

Comments
Select samples were taken off hold by GHD on September 28, 2016.

Receipt
The samples were received on 9/22/2016 9:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.2º C.

GC Semi VOA
Method(s) 8082: The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: C-7878-092116-SSH-K11-6 (240-69820-2), C-7878-092116-SSH-K11-2 (240-69820-3) and C-7878-092116-SSH-K10-6 (240-69820-7). 2710186, 2103100, 2719942.

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: C-7878-092116-SSH-K11-6 (240-69820-2). Due to the poor match with the Aroclor standards, there is increased qualitative and quantitative uncertainty associated with this result.

Method(s) 8082: The following sample was diluted due to the nature of the sample matrix: C-7878-092116-SSH-K10-6 (240-69820-7). 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.

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

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

Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69820-2

Qualifiers

GC Semi 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.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

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
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)

Sample Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69820-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-69820-2	C-7878-092116-SSH-K11-6	Solid	09/21/16 13:50	09/22/16 09:10
240-69820-3	C-7878-092116-SSH-K11-2	Solid	09/21/16 14:00	09/22/16 09:10
240-69820-7	C-7878-092116-SSH-K10-6	Solid	09/21/16 15:20	09/22/16 09:10

Detection Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69820-2

Client Sample ID: C-7878-092116-SSH-K11-6 — Lab Sample ID: 240-69820-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	5400		1100	300	ug/Kg	10	☼	8082	Total/NA

Client Sample ID: C-7878-092116-SSH-K11-2 — Lab Sample ID: 240-69820-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	10000		2000	570	ug/Kg	20	☼	8082	Total/NA

Client Sample ID: C-7878-092116-SSH-K10-6 — Lab Sample ID: 240-69820-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	270	J	510	140	ug/Kg	5	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69820-2

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
Moisture	Percent Moisture	EPA	TAL CAN

Protocol References:

EPA = US Environmental Protection Agency

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

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-092116-SSH-K11-6
Date Collected: 09/21/16 13:50
Date Received: 09/22/16 09:10

Lab Sample ID: 240-69820-2
Matrix: Solid
Percent Solids: 93.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	1100	U	1100	510	ug/Kg	☼	10/01/16 13:17	10/04/16 08:10	10
Aroclor-1221	1100	U	1100	490	ug/Kg	☼	10/01/16 13:17	10/04/16 08:10	10
Aroclor-1232	1100	U	1100	340	ug/Kg	☼	10/01/16 13:17	10/04/16 08:10	10
Aroclor-1242	1100	U	1100	430	ug/Kg	☼	10/01/16 13:17	10/04/16 08:10	10
Aroclor-1248	1100	U	1100	360	ug/Kg	☼	10/01/16 13:17	10/04/16 08:10	10
Aroclor-1254	**5400**		1100	300	ug/Kg	☼	10/01/16 13:17	10/04/16 08:10	10
Aroclor-1260	1100	U	1100	380	ug/Kg	☼	10/01/16 13:17	10/04/16 08:10	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*77*		*14 - 128*	*10/01/16 13:17*	*10/04/16 08:10*	*10*
DCB Decachlorobiphenyl	*103*		*10 - 132*	*10/01/16 13:17*	*10/04/16 08:10*	*10*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69820-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-092116-SSH-K11-2
Date Collected: 09/21/16 14:00
Date Received: 09/22/16 09:10

Lab Sample ID: 240-69820-3
Matrix: Solid
Percent Solids: 96.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2000	U	2000	970	ug/Kg	☼	10/01/16 13:17	10/04/16 08:27	20
Aroclor-1221	2000	U	2000	930	ug/Kg	☼	10/01/16 13:17	10/04/16 08:27	20
Aroclor-1232	2000	U	2000	650	ug/Kg	☼	10/01/16 13:17	10/04/16 08:27	20
Aroclor-1242	2000	U	2000	810	ug/Kg	☼	10/01/16 13:17	10/04/16 08:27	20
Aroclor-1248	2000	U	2000	690	ug/Kg	☼	10/01/16 13:17	10/04/16 08:27	20
Aroclor-1254	**10000**		2000	570	ug/Kg	☼	10/01/16 13:17	10/04/16 08:27	20
Aroclor-1260	2000	U	2000	730	ug/Kg	☼	10/01/16 13:17	10/04/16 08:27	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*61*		*14 - 128*	*10/01/16 13:17*	*10/04/16 08:27*	*20*
DCB Decachlorobiphenyl	*89*		*10 - 132*	*10/01/16 13:17*	*10/04/16 08:27*	*20*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69820-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-092116-SSH-K10-6
Date Collected: 09/21/16 15:20
Date Received: 09/22/16 09:10

Lab Sample ID: 240-69820-7
Matrix: Solid
Percent Solids: 95.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	510	U	510	240	ug/Kg	☼	10/01/16 13:17	10/04/16 11:42	5
Aroclor-1221	510	U	510	230	ug/Kg	☼	10/01/16 13:17	10/04/16 11:42	5
Aroclor-1232	510	U	510	160	ug/Kg	☼	10/01/16 13:17	10/04/16 11:42	5
Aroclor-1242	510	U	510	200	ug/Kg	☼	10/01/16 13:17	10/04/16 11:42	5
Aroclor-1248	510	U	510	170	ug/Kg	☼	10/01/16 13:17	10/04/16 11:42	5
Aroclor-1254	**270**	**J**	510	140	ug/Kg	☼	10/01/16 13:17	10/04/16 11:42	5
Aroclor-1260	510	U	510	180	ug/Kg	☼	10/01/16 13:17	10/04/16 11:42	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*		*14 - 128*	*10/01/16 13:17*	*10/04/16 11:42*	*5*
DCB Decachlorobiphenyl	*69*		*10 - 132*	*10/01/16 13:17*	*10/04/16 11:42*	*5*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69820-2

General Chemistry

Client Sample ID: C-7878-092116-SSH-K11-6
Date Collected: 09/21/16 13:50
Date Received: 09/22/16 09:10

Lab Sample ID: 240-69820-2
Matrix: Solid
Percent Solids: 93.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	93.7		0.1	0.1	%			09/26/16 08:49	1
Percent Moisture	6.3		0.1	0.1	%			09/26/16 08:49	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69820-2

General Chemistry

Client Sample ID: C-7878-092116-SSH-K11-2
Date Collected: 09/21/16 14:00
Date Received: 09/22/16 09:10

Lab Sample ID: 240-69820-3
Matrix: Solid
Percent Solids: 96.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96.2		0.1	0.1	%			09/26/16 08:49	1
Percent Moisture	3.8		0.1	0.1	%			09/26/16 08:49	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69820-2

General Chemistry

Client Sample ID: C-7878-092116-SSH-K10-6
Date Collected: 09/21/16 15:20
Date Received: 09/22/16 09:10

Lab Sample ID: 240-69820-7
Matrix: Solid
Percent Solids: 95.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	95.3		0.1	0.1	%			09/26/16 08:49	1
Percent Moisture	4.7		0.1	0.1	%			09/26/16 08:49	1

QC Association Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69820-2

GC Semi VOA

Processed Batch: 248210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-69820-2	C-7878-092116-SSH-K11-6	Total/NA	Solid	Part Size Red	
240-69820-3	C-7878-092116-SSH-K11-2	Total/NA	Solid	Part Size Red	
240-69820-7	C-7878-092116-SSH-K10-6	Total/NA	Solid	Part Size Red	

Prep Batch: 249344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-69820-2	C-7878-092116-SSH-K11-6	Total/NA	Solid	3540C	248210
240-69820-3	C-7878-092116-SSH-K11-2	Total/NA	Solid	3540C	248210
240-69820-7	C-7878-092116-SSH-K10-6	Total/NA	Solid	3540C	248210
MB 240-249344/6-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-249344/7-A	Lab Control Sample	Total/NA	Solid	3540C	

Analysis Batch: 249611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-69820-2	C-7878-092116-SSH-K11-6	Total/NA	Solid	8082	249344
240-69820-3	C-7878-092116-SSH-K11-2	Total/NA	Solid	8082	249344
240-69820-7	C-7878-092116-SSH-K10-6	Total/NA	Solid	8082	249344
MB 240-249344/6-A	Method Blank	Total/NA	Solid	8082	249344
MB 240-249344/6-A	Method Blank	Total/NA	Solid	8082	249344
LCS 240-249344/7-A	Lab Control Sample	Total/NA	Solid	8082	249344
LCS 240-249344/7-A	Lab Control Sample	Total/NA	Solid	8082	249344

General Chemistry

Processed Batch: 248210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-69820-2	C-7878-092116-SSH-K11-6	Total/NA	Solid	Part Size Red	
240-69820-3	C-7878-092116-SSH-K11-2	Total/NA	Solid	Part Size Red	
240-69820-7	C-7878-092116-SSH-K10-6	Total/NA	Solid	Part Size Red	
240-69820-2 DU	C-7878-092116-SSH-K11-6	Total/NA	Solid	Part Size Red	

Analysis Batch: 248370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-69820-2	C-7878-092116-SSH-K11-6	Total/NA	Solid	Moisture	248210
240-69820-3	C-7878-092116-SSH-K11-2	Total/NA	Solid	Moisture	248210
240-69820-7	C-7878-092116-SSH-K10-6	Total/NA	Solid	Moisture	248210
240-69820-2 DU	C-7878-092116-SSH-K11-6	Total/NA	Solid	Moisture	248210

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-249344/6-A
Matrix: Solid
Analysis Batch: 249611

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 249344

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	100	U	100	48	ug/Kg		10/01/16 11:41	10/04/16 07:35	1
Aroclor-1221	100	U	100	46	ug/Kg		10/01/16 11:41	10/04/16 07:35	1
Aroclor-1232	100	U	100	32	ug/Kg		10/01/16 11:41	10/04/16 07:35	1
Aroclor-1242	100	U	100	40	ug/Kg		10/01/16 11:41	10/04/16 07:35	1
Aroclor-1248	100	U	100	34	ug/Kg		10/01/16 11:41	10/04/16 07:35	1
Aroclor-1254	100	U	100	28	ug/Kg		10/01/16 11:41	10/04/16 07:35	1
Aroclor-1260	100	U	100	36	ug/Kg		10/01/16 11:41	10/04/16 07:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*76*	*p*	*14 - 128*	*10/01/16 11:41*	*10/04/16 07:35*	*1*
DCB Decachlorobiphenyl	*103*		*10 - 132*	*10/01/16 11:41*	*10/04/16 07:35*	*1*

Lab Sample ID: MB 240-249344/6-A
Matrix: Solid
Analysis Batch: 249611

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 249344

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	100	U	100	48	ug/Kg		10/01/16 11:41	10/04/16 10:31	1
Aroclor-1221	100	U	100	46	ug/Kg		10/01/16 11:41	10/04/16 10:31	1
Aroclor-1232	100	U	100	32	ug/Kg		10/01/16 11:41	10/04/16 10:31	1
Aroclor-1242	100	U	100	40	ug/Kg		10/01/16 11:41	10/04/16 10:31	1
Aroclor-1248	100	U	100	34	ug/Kg		10/01/16 11:41	10/04/16 10:31	1
Aroclor-1254	100	U	100	28	ug/Kg		10/01/16 11:41	10/04/16 10:31	1
Aroclor-1260	100	U	100	36	ug/Kg		10/01/16 11:41	10/04/16 10:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*	*p*	*14 - 128*	*10/01/16 11:41*	*10/04/16 10:31*	*1*
DCB Decachlorobiphenyl	*88*		*10 - 132*	*10/01/16 11:41*	*10/04/16 10:31*	*1*

Lab Sample ID: LCS 240-249344/7-A
Matrix: Solid
Analysis Batch: 249611

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 249344

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor-1016			2000	1510		ug/Kg		76	47 - 120		
Aroclor-1260			2000	1690		ug/Kg		84	46 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*87*		*14 - 128*
DCB Decachlorobiphenyl	*90*		*10 - 132*

Lab Sample ID: LCS 240-249344/7-A
Matrix: Solid
Analysis Batch: 249611

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 249344

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor-1016			2000	1380		ug/Kg		69	47 - 120		

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 240-249344/7-A
Matrix: Solid
Analysis Batch: 249611

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 249344

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor-1260			2000	1560		ug/Kg		78	46 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*80*		*14 - 128*
DCB Decachlorobiphenyl	*83*		*10 - 132*

Method: Moisture - Percent Moisture

Lab Sample ID: 240-69820-2 DU
Matrix: Solid
Analysis Batch: 248370

Client Sample ID: C-7878-092116-SSH-K11-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Solids	93.7			94.0		%				0.3	20
Percent Moisture	6.3			6.0		%				5	20

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69820-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	TCX1 (14-128)	DCB1 (10-132)								
240-69820-2	C-7878-092116-SSH-K11-6	77	103								
240-69820-3	C-7878-092116-SSH-K11-2	61	89								
240-69820-7	C-7878-092116-SSH-K10-6	68	69								
LCS 240-249344/7-A	Lab Control Sample	87	90								
LCS 240-249344/7-A	Lab Control Sample	80	83								
MB 240-249344/6-A	Method Blank	68 p	88								
MB 240-249344/6-A	Method Blank	76 p	103								

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69820-2

Client Sample ID: C-7878-092116-SSH-K11-6
Lab Sample ID: 240-69820-2
Date Collected: 09/21/16 13:50
Matrix: Solid
Date Received: 09/22/16 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			248210	09/23/16 10:00	BH	TAL CAN
Total/NA	Analysis	Moisture		1	248370	09/26/16 08:49	DTN	TAL CAN

Client Sample ID: C-7878-092116-SSH-K11-6
Lab Sample ID: 240-69820-2
Date Collected: 09/21/16 13:50
Matrix: Solid
Date Received: 09/22/16 09:10
Percent Solids: 93.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			248210	09/23/16 10:00	BH	TAL CAN
Total/NA	Prep	3540C			249344	10/01/16 13:17	SDE	TAL CAN
Total/NA	Analysis	8082		10	249611	10/04/16 08:10	KMG	TAL CAN

Client Sample ID: C-7878-092116-SSH-K11-2
Lab Sample ID: 240-69820-3
Date Collected: 09/21/16 14:00
Matrix: Solid
Date Received: 09/22/16 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			248210	09/23/16 10:00	BH	TAL CAN
Total/NA	Analysis	Moisture		1	248370	09/26/16 08:49	DTN	TAL CAN

Client Sample ID: C-7878-092116-SSH-K11-2
Lab Sample ID: 240-69820-3
Date Collected: 09/21/16 14:00
Matrix: Solid
Date Received: 09/22/16 09:10
Percent Solids: 96.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			248210	09/23/16 10:00	BH	TAL CAN
Total/NA	Prep	3540C			249344	10/01/16 13:17	SDE	TAL CAN
Total/NA	Analysis	8082		20	249611	10/04/16 08:27	KMG	TAL CAN

Client Sample ID: C-7878-092116-SSH-K10-6
Lab Sample ID: 240-69820-7
Date Collected: 09/21/16 15:20
Matrix: Solid
Date Received: 09/22/16 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			248210	09/23/16 10:00	BH	TAL CAN
Total/NA	Analysis	Moisture		1	248370	09/26/16 08:49	DTN	TAL CAN

Client Sample ID: C-7878-092116-SSH-K10-6
Lab Sample ID: 240-69820-7
Date Collected: 09/21/16 15:20
Matrix: Solid
Date Received: 09/22/16 09:10
Percent Solids: 95.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Processed	Part Size Red			248210	09/23/16 10:00	BH	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69820-2

Client Sample ID: C-7878-092116-SSH-K10-6 — **Lab Sample ID: 240-69820-7**
Date Collected: 09/21/16 15:20 — **Matrix: Solid**
Date Received: 09/22/16 09:10 — **Percent Solids: 95.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			249344	10/01/16 13:17	SDE	TAL CAN
Total/NA	Analysis	8082		5	249611	10/04/16 11:42	KMG	TAL CAN

Laboratory References:

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

Certification Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69820-2

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 (WW)	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	09-14-16 *
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 Michigan
10448 Citation Drive
Suite 200
Brighton, MI 48116
Phone: 810.229.2763 Fax:

Chain of Custody Record

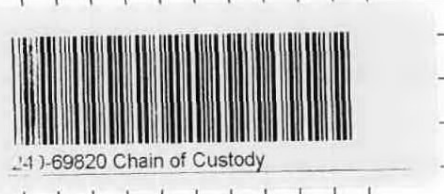
163419

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TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other:

Client Contact	Project Manager: M. Tomka	Site Contact: JE Pardys	Date: 9/21/16	COC No: 163419, 163417
Company Name: GHD	Tel/Fax: 519 884 0510	Lab Contact: D. Heath	Carrier: FedEx	2 of 2 COCs
Address:	Analysis Turnaround Time			Sampler: S. Hovenkotter
City/State/Zip:	☒ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone:	TAT if different from Below 5 days			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: RawTrust SMI	☐ 1 week			
Site: SSOW 7878 - TO1 - 012	☐ 2 days			Job / SDG No.:
PO #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs	Sample Specific Notes:
C-7878-092116-SSH-M11-4	9/21/16	1340	G	C	1	N	N	X	HOLD
-M11-6		1350	G	C	1	N	N	X	
-M11-2		1400	G	C	1	N	N	X	
-M11-8		1410	G	C	1	N	N	X	
C-7878-092116-SSH-M10-8		1500	G	C	1	N	N	X	
-M10-4		1510	G	C	1	N	N	X	
-M10-6		1520	G	C	1	N	N	X	
-M10-2		1530	G	C	1	N	N	X	
SSH									



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.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: Hold per GHD per COC 163417

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: 959402 | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ | Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	GHD	9/21/16 1700	[signature]	TA	9-22-16 910
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

TestAmerica Canton Sample Receipt Form/Narrative **Login # : 109820**

Canton Facility

Client GHD Site Name

Cooler Received on 9-22-16 Opened on 9-22-16

Cooler unpacked by:

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

TestAmerica Cooler # Foam Box Client Cooler Box Other

Packing material used: Bubble Wrap Foam Plastic Bag None Other

COOLANT: Wet Ice Blue Ice Dry Ice Water None

☐ See Multiple Cooler Form

1. Cooler temperature upon receipt
   IR GUN# IR-8 (CF +0.4 °C) Observed Cooler Temp. 2.8 °C Corrected Cooler Temp. 3.2 °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 1 Yes No
   -Were custody seals on the outside of the cooler(s) signed & dated? Yes No NA
   -Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels be reconciled with the COC? Yes No
9. Were correct bottle(s) used for the test(s) indicated? Yes No
10. Sufficient quantity received to perform indicated analyses? Yes No
11. Are these work share samples? Yes No
    If yes, Questions 11-15 have been checked at the originating laboratory.
11. Were sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# **HC574756**
12. Were VOAs on the COC? Yes No
13. Were air bubbles >6 mm in any VOA vials? Yes No NA
14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # Yes No
15. Was a LL Hg or Me Hg trip blank present? Yes No

Contacted PM Date by via Verbal Voice Mail Other

Concerning

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

15. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.

Sample(s) were received in a broken container.

Sample(s) were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory.

Time preserved: Preservative(s) added/Lot number(s):

Ref: SOP NC-SC-0005, Sample Receiving

L:\QAQC\QA Department\QA TARDIS\Document Control\Work Instructions\In Revision\WI-NC-099-090216 Cooler Receipt Form.doc djl

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-69825-2
Client Project/Site: 7878, RACER SMI

For:
GHD Services Inc.
14496 Sheldon Road, Suite 200
Plymouth, Michigan 48170

Attn: Rawa Fleisher

Denise D Heckler

Authorized for release by:
10/4/2016 4:08:10 PM

Denise Heckler, Project Manager II
(330)966-9477
denise.heckler@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: 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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Job ID: 240-69825-2

Laboratory: TestAmerica Canton

Narrative

Job Narrative
240-69825-2

Comments
Samples were taken off hold by GHD on September 28, 2016.

Receipt
The samples were received on 9/22/2016 9:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.2º C.

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

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

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

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
X	Surrogate is outside control limits

General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit

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
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)

Sample Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69825-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-69825-2	C-7878-092116-SSH-6142	Solid	09/21/16 10:20	09/22/16 09:10
240-69825-4	C-7878-092116-SSH-6137	Solid	09/21/16 10:40	09/22/16 09:10
240-69825-6	C-7878-092116-SSH-6139	Solid	09/21/16 11:20	09/22/16 09:10
240-69825-7	C-7878-092116-SSH-6144	Solid	09/21/16 11:30	09/22/16 09:10
240-69825-10	C-7878-092116-SSH-6133	Solid	09/21/16 12:00	09/22/16 09:10
240-69825-12	C-7878-092116-SSH-6134	Solid	09/21/16 12:20	09/22/16 09:10

Detection Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69825-2

Client Sample ID: C-7878-092116-SSH-6142 — Lab Sample ID: 240-69825-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	800000		99000	28000	ug/Kg	1000	☼	8082	Total/NA

Client Sample ID: C-7878-092116-SSH-6137 — Lab Sample ID: 240-69825-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	170000		21000	5800	ug/Kg	200	☼	8082	Total/NA

Client Sample ID: C-7878-092116-SSH-6139 — Lab Sample ID: 240-69825-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	65000	p	11000	3200	ug/Kg	100	☼	8082	Total/NA

Client Sample ID: C-7878-092116-SSH-6144 — Lab Sample ID: 240-69825-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	49000		10000	2900	ug/Kg	100	☼	8082	Total/NA

Client Sample ID: C-7878-092116-SSH-6133 — Lab Sample ID: 240-69825-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	140000	p	22000	6200	ug/Kg	200	☼	8082	Total/NA

Client Sample ID: C-7878-092116-SSH-6134 — Lab Sample ID: 240-69825-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	17000		2300	650	ug/Kg	20	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69825-2

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
Moisture	Percent Moisture	EPA	TAL CAN

Protocol References:

EPA = US Environmental Protection Agency

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

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69825-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-092116-SSH-6142
Date Collected: 09/21/16 10:20
Date Received: 09/22/16 09:10

Lab Sample ID: 240-69825-2
Matrix: Solid
Percent Solids: 97.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	99000	U	99000	47000	ug/Kg	☼	09/29/16 08:48	10/04/16 09:48	1000
Aroclor-1221	99000	U	99000	45000	ug/Kg	☼	09/29/16 08:48	10/04/16 09:48	1000
Aroclor-1232	99000	U	99000	32000	ug/Kg	☼	09/29/16 08:48	10/04/16 09:48	1000
Aroclor-1242	99000	U	99000	39000	ug/Kg	☼	09/29/16 08:48	10/04/16 09:48	1000
Aroclor-1248	99000	U	99000	34000	ug/Kg	☼	09/29/16 08:48	10/04/16 09:48	1000
Aroclor-1254	**800000**		99000	28000	ug/Kg	☼	09/29/16 08:48	10/04/16 09:48	1000
Aroclor-1260	99000	U	99000	36000	ug/Kg	☼	09/29/16 08:48	10/04/16 09:48	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*X*	*14 - 128*	*09/29/16 08:48*	*10/04/16 09:48*	*1000*
DCB Decachlorobiphenyl	*191*	*X*	*10 - 132*	*09/29/16 08:48*	*10/04/16 09:48*	*1000*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69825-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-092116-SSH-6137
Date Collected: 09/21/16 10:40
Date Received: 09/22/16 09:10

Lab Sample ID: 240-69825-4
Matrix: Solid
Percent Solids: 97.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	21000	U	21000	9900	ug/Kg	☼	09/29/16 08:48	10/03/16 11:34	200
Aroclor-1221	21000	U	21000	9500	ug/Kg	☼	09/29/16 08:48	10/03/16 11:34	200
Aroclor-1232	21000	U	21000	6600	ug/Kg	☼	09/29/16 08:48	10/03/16 11:34	200
Aroclor-1242	21000	U	21000	8200	ug/Kg	☼	09/29/16 08:48	10/03/16 11:34	200
Aroclor-1248	21000	U	21000	7000	ug/Kg	☼	09/29/16 08:48	10/03/16 11:34	200
Aroclor-1254	**170000**		21000	5800	ug/Kg	☼	09/29/16 08:48	10/03/16 11:34	200
Aroclor-1260	21000	U	21000	7400	ug/Kg	☼	09/29/16 08:48	10/03/16 11:34	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*84*		*14 - 128*	*09/29/16 08:48*	*10/03/16 11:34*	*200*
DCB Decachlorobiphenyl	*37*		*10 - 132*	*09/29/16 08:48*	*10/03/16 11:34*	*200*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69825-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-092116-SSH-6139
Date Collected: 09/21/16 11:20
Date Received: 09/22/16 09:10

Lab Sample ID: 240-69825-6
Matrix: Solid
Percent Solids: 87.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	11000	U	11000	5400	ug/Kg	☼	09/29/16 08:48	10/03/16 11:52	100
Aroclor-1221	11000	U	11000	5200	ug/Kg	☼	09/29/16 08:48	10/03/16 11:52	100
Aroclor-1232	11000	U	11000	3600	ug/Kg	☼	09/29/16 08:48	10/03/16 11:52	100
Aroclor-1242	11000	U	11000	4500	ug/Kg	☼	09/29/16 08:48	10/03/16 11:52	100
Aroclor-1248	11000	U	11000	3800	ug/Kg	☼	09/29/16 08:48	10/03/16 11:52	100
Aroclor-1254	**65000**	**p**	11000	3200	ug/Kg	☼	09/29/16 08:48	10/03/16 11:52	100
Aroclor-1260	11000	U	11000	4100	ug/Kg	☼	09/29/16 08:48	10/03/16 11:52	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*91*		*14 - 128*	*09/29/16 08:48*	*10/03/16 11:52*	*100*
DCB Decachlorobiphenyl	*179*	*X*	*10 - 132*	*09/29/16 08:48*	*10/03/16 11:52*	*100*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69825-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-092116-SSH-6144
Date Collected: 09/21/16 11:30
Date Received: 09/22/16 09:10

Lab Sample ID: 240-69825-7
Matrix: Solid
Percent Solids: 97.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	10000	U	10000	4900	ug/Kg	☼	09/29/16 08:48	10/03/16 12:11	100
Aroclor-1221	10000	U	10000	4700	ug/Kg	☼	09/29/16 08:48	10/03/16 12:11	100
Aroclor-1232	10000	U	10000	3300	ug/Kg	☼	09/29/16 08:48	10/03/16 12:11	100
Aroclor-1242	10000	U	10000	4100	ug/Kg	☼	09/29/16 08:48	10/03/16 12:11	100
Aroclor-1248	10000	U	10000	3500	ug/Kg	☼	09/29/16 08:48	10/03/16 12:11	100
Aroclor-1254	**49000**		10000	2900	ug/Kg	☼	09/29/16 08:48	10/03/16 12:11	100
Aroclor-1260	10000	U	10000	3700	ug/Kg	☼	09/29/16 08:48	10/03/16 12:11	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*14 - 128*	*09/29/16 08:48*	*10/03/16 12:11*	*100*
DCB Decachlorobiphenyl	*114*		*10 - 132*	*09/29/16 08:48*	*10/03/16 12:11*	*100*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69825-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-092116-SSH-6133
Date Collected: 09/21/16 12:00
Date Received: 09/22/16 09:10

Lab Sample ID: 240-69825-10
Matrix: Solid
Percent Solids: 89.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	22000	U	22000	11000	ug/Kg	☼	09/29/16 08:48	10/03/16 12:29	200
Aroclor-1221	22000	U	22000	10000	ug/Kg	☼	09/29/16 08:48	10/03/16 12:29	200
Aroclor-1232	22000	U	22000	7100	ug/Kg	☼	09/29/16 08:48	10/03/16 12:29	200
Aroclor-1242	22000	U	22000	8800	ug/Kg	☼	09/29/16 08:48	10/03/16 12:29	200
Aroclor-1248	22000	U	22000	7500	ug/Kg	☼	09/29/16 08:48	10/03/16 12:29	200
Aroclor-1254	**140000**	**p**	22000	6200	ug/Kg	☼	09/29/16 08:48	10/03/16 12:29	200
Aroclor-1260	22000	U	22000	7900	ug/Kg	☼	09/29/16 08:48	10/03/16 12:29	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*14 - 128*	*09/29/16 08:48*	*10/03/16 12:29*	*200*
DCB Decachlorobiphenyl	*96*		*10 - 132*	*09/29/16 08:48*	*10/03/16 12:29*	*200*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69825-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-092116-SSH-6134
Date Collected: 09/21/16 12:20
Date Received: 09/22/16 09:10

Lab Sample ID: 240-69825-12
Matrix: Solid
Percent Solids: 85.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2300	U	2300	1100	ug/Kg	☼	09/29/16 08:48	10/03/16 12:48	20
Aroclor-1221	2300	U	2300	1100	ug/Kg	☼	09/29/16 08:48	10/03/16 12:48	20
Aroclor-1232	2300	U	2300	740	ug/Kg	☼	09/29/16 08:48	10/03/16 12:48	20
Aroclor-1242	2300	U	2300	930	ug/Kg	☼	09/29/16 08:48	10/03/16 12:48	20
Aroclor-1248	2300	U	2300	790	ug/Kg	☼	09/29/16 08:48	10/03/16 12:48	20
Aroclor-1254	**17000**		2300	650	ug/Kg	☼	09/29/16 08:48	10/03/16 12:48	20
Aroclor-1260	2300	U	2300	840	ug/Kg	☼	09/29/16 08:48	10/03/16 12:48	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*70*		*14 - 128*	*09/29/16 08:48*	*10/03/16 12:48*	*20*
DCB Decachlorobiphenyl	*80*		*10 - 132*	*09/29/16 08:48*	*10/03/16 12:48*	*20*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69825-2

General Chemistry

Client Sample ID: C-7878-092116-SSH-6142
Date Collected: 09/21/16 10:20
Date Received: 09/22/16 09:10

Lab Sample ID: 240-69825-2
Matrix: Solid
Percent Solids: 97.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97.8		0.1	0.1	%			09/23/16 14:51	1
Percent Moisture	2.2		0.1	0.1	%			09/23/16 14:51	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69825-2

General Chemistry

Client Sample ID: C-7878-092116-SSH-6137
Date Collected: 09/21/16 10:40
Date Received: 09/22/16 09:10

Lab Sample ID: 240-69825-4
Matrix: Solid
Percent Solids: 97.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97.2		0.1	0.1	%			09/23/16 14:51	1
Percent Moisture	2.8		0.1	0.1	%			09/23/16 14:51	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69825-2

General Chemistry

Client Sample ID: C-7878-092116-SSH-6139
Date Collected: 09/21/16 11:20
Date Received: 09/22/16 09:10

Lab Sample ID: 240-69825-6
Matrix: Solid
Percent Solids: 87.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	87.9		0.1	0.1	%			09/23/16 14:51	1
Percent Moisture	12.1		0.1	0.1	%			09/23/16 14:51	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69825-2

General Chemistry

Client Sample ID: C-7878-092116-SSH-6144
Date Collected: 09/21/16 11:30
Date Received: 09/22/16 09:10

Lab Sample ID: 240-69825-7
Matrix: Solid
Percent Solids: 97.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97.3		0.1	0.1	%			09/23/16 14:51	1
Percent Moisture	2.7		0.1	0.1	%			09/23/16 14:51	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69825-2

General Chemistry

Client Sample ID: C-7878-092116-SSH-6133
Date Collected: 09/21/16 12:00
Date Received: 09/22/16 09:10

Lab Sample ID: 240-69825-10
Matrix: Solid
Percent Solids: 89.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	89.1		0.1	0.1	%			09/23/16 14:51	1
Percent Moisture	10.9		0.1	0.1	%			09/23/16 14:51	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69825-2

General Chemistry

Client Sample ID: C-7878-092116-SSH-6134
Date Collected: 09/21/16 12:20
Date Received: 09/22/16 09:10

Lab Sample ID: 240-69825-12
Matrix: Solid
Percent Solids: 85.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	85.9		0.1	0.1	%			09/23/16 14:51	1
Percent Moisture	14.1		0.1	0.1	%			09/23/16 14:51	1

QC Association Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69825-2

GC Semi VOA

Prep Batch: 248982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-69825-2	C-7878-092116-SSH-6142	Total/NA	Solid	3540C	
240-69825-4	C-7878-092116-SSH-6137	Total/NA	Solid	3540C	
240-69825-6	C-7878-092116-SSH-6139	Total/NA	Solid	3540C	
240-69825-7	C-7878-092116-SSH-6144	Total/NA	Solid	3540C	
240-69825-10	C-7878-092116-SSH-6133	Total/NA	Solid	3540C	
240-69825-12	C-7878-092116-SSH-6134	Total/NA	Solid	3540C	
MB 240-248982/9-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-248982/10-A	Lab Control Sample	Total/NA	Solid	3540C	
240-69825-2 MS	C-7878-092116-SSH-6142	Total/NA	Solid	3540C	
240-69825-2 MSD	C-7878-092116-SSH-6142	Total/NA	Solid	3540C	

Analysis Batch: 249440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-69825-4	C-7878-092116-SSH-6137	Total/NA	Solid	8082	248982
240-69825-6	C-7878-092116-SSH-6139	Total/NA	Solid	8082	248982
240-69825-7	C-7878-092116-SSH-6144	Total/NA	Solid	8082	248982
240-69825-10	C-7878-092116-SSH-6133	Total/NA	Solid	8082	248982
240-69825-12	C-7878-092116-SSH-6134	Total/NA	Solid	8082	248982
MB 240-248982/9-A	Method Blank	Total/NA	Solid	8082	248982
LCS 240-248982/10-A	Lab Control Sample	Total/NA	Solid	8082	248982

Analysis Batch: 249613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-69825-2	C-7878-092116-SSH-6142	Total/NA	Solid	8082	248982
240-69825-2 MS	C-7878-092116-SSH-6142	Total/NA	Solid	8082	248982
240-69825-2 MSD	C-7878-092116-SSH-6142	Total/NA	Solid	8082	248982

General Chemistry

Analysis Batch: 248213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-69825-2	C-7878-092116-SSH-6142	Total/NA	Solid	Moisture	
240-69825-4	C-7878-092116-SSH-6137	Total/NA	Solid	Moisture	
240-69825-6	C-7878-092116-SSH-6139	Total/NA	Solid	Moisture	
240-69825-7	C-7878-092116-SSH-6144	Total/NA	Solid	Moisture	
240-69825-10	C-7878-092116-SSH-6133	Total/NA	Solid	Moisture	
240-69825-12	C-7878-092116-SSH-6134	Total/NA	Solid	Moisture	
240-69825-12 DU	C-7878-092116-SSH-6134	Total/NA	Solid	Moisture	

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-248982/9-A
Matrix: Solid
Analysis Batch: 249440

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 248982

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	100	U	100	48	ug/Kg		09/29/16 08:48	10/03/16 13:06	1
Aroclor-1221	100	U	100	46	ug/Kg		09/29/16 08:48	10/03/16 13:06	1
Aroclor-1232	100	U	100	32	ug/Kg		09/29/16 08:48	10/03/16 13:06	1
Aroclor-1242	100	U	100	40	ug/Kg		09/29/16 08:48	10/03/16 13:06	1
Aroclor-1248	100	U	100	34	ug/Kg		09/29/16 08:48	10/03/16 13:06	1
Aroclor-1254	100	U	100	28	ug/Kg		09/29/16 08:48	10/03/16 13:06	1
Aroclor-1260	100	U	100	36	ug/Kg		09/29/16 08:48	10/03/16 13:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*94*		*14 - 128*	*09/29/16 08:48*	*10/03/16 13:06*	*1*
DCB Decachlorobiphenyl	*73*		*10 - 132*	*09/29/16 08:48*	*10/03/16 13:06*	*1*

Lab Sample ID: LCS 240-248982/10-A
Matrix: Solid
Analysis Batch: 249440

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 248982

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor-1016			2000	1250		ug/Kg		62	47 - 120		
Aroclor-1260			2000	1390		ug/Kg		70	46 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*81*		*14 - 128*
DCB Decachlorobiphenyl	*74*		*10 - 132*

Lab Sample ID: 240-69825-2 MS
Matrix: Solid
Analysis Batch: 249613

Client Sample ID: C-7878-092116-SSH-6142
Prep Type: Total/NA
Prep Batch: 248982

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor-1016	99000	U	1990	99000	U	ug/Kg	☼	NC	31 - 120		
Aroclor-1260	99000	U	1990	759000		ug/Kg	☼	NC	21 - 122		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*0*	*X*	*14 - 128*
DCB Decachlorobiphenyl	*511*	*X*	*10 - 132*

Lab Sample ID: 240-69825-2 MSD
Matrix: Solid
Analysis Batch: 249613

Client Sample ID: C-7878-092116-SSH-6142
Prep Type: Total/NA
Prep Batch: 248982

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor-1016	99000	U	2020	100000	U	ug/Kg	☼	NC	31 - 120	NC	30
Aroclor-1260	99000	U	2020	888000		ug/Kg	☼	NC	21 - 122	16	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*152*	*X*	*14 - 128*
DCB Decachlorobiphenyl	*926*	*X*	*10 - 132*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69825-2

Method: Moisture - Percent Moisture

Lab Sample ID: 240-69825-12 DU
Matrix: Solid
Analysis Batch: 248213

Client Sample ID: C-7878-092116-SSH-6134
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Solids	85.9			89.8		%				4	20
Percent Moisture	14.1			10.2	F3	%				32	20

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69825-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX2	DCB2
Lab Sample ID	Client Sample ID	(14-128)	(10-132)
240-69825-2	C-7878-092116-SSH-6142	0 X	191 X
240-69825-2 MS	C-7878-092116-SSH-6142	0 X	511 X
240-69825-2 MSD	C-7878-092116-SSH-6142	152 X	926 X
240-69825-4	C-7878-092116-SSH-6137	84	37
240-69825-6	C-7878-092116-SSH-6139	91	179 X
240-69825-7	C-7878-092116-SSH-6144	79	114
240-69825-10	C-7878-092116-SSH-6133	74	96
240-69825-12	C-7878-092116-SSH-6134	70	80
LCS 240-248982/10-A	Lab Control Sample	81	74
MB 240-248982/9-A	Method Blank	94	73

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69825-2

Client Sample ID: C-7878-092116-SSH-6142
Lab Sample ID: 240-69825-2
Date Collected: 09/21/16 10:20
Matrix: Solid
Date Received: 09/22/16 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	248213	09/23/16 14:51	JMB	TAL CAN

Client Sample ID: C-7878-092116-SSH-6142
Lab Sample ID: 240-69825-2
Date Collected: 09/21/16 10:20
Matrix: Solid
Date Received: 09/22/16 09:10
Percent Solids: 97.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			248982	09/29/16 08:48	YDN	TAL CAN
Total/NA	Analysis	8082		1000	249613	10/04/16 09:48	LSH	TAL CAN

Client Sample ID: C-7878-092116-SSH-6137
Lab Sample ID: 240-69825-4
Date Collected: 09/21/16 10:40
Matrix: Solid
Date Received: 09/22/16 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	248213	09/23/16 14:51	JMB	TAL CAN

Client Sample ID: C-7878-092116-SSH-6137
Lab Sample ID: 240-69825-4
Date Collected: 09/21/16 10:40
Matrix: Solid
Date Received: 09/22/16 09:10
Percent Solids: 97.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			248982	09/29/16 08:48	YDN	TAL CAN
Total/NA	Analysis	8082		200	249440	10/03/16 11:34	KMG	TAL CAN

Client Sample ID: C-7878-092116-SSH-6139
Lab Sample ID: 240-69825-6
Date Collected: 09/21/16 11:20
Matrix: Solid
Date Received: 09/22/16 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	248213	09/23/16 14:51	JMB	TAL CAN

Client Sample ID: C-7878-092116-SSH-6139
Lab Sample ID: 240-69825-6
Date Collected: 09/21/16 11:20
Matrix: Solid
Date Received: 09/22/16 09:10
Percent Solids: 87.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			248982	09/29/16 08:48	YDN	TAL CAN
Total/NA	Analysis	8082		100	249440	10/03/16 11:52	KMG	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69825-2

Client Sample ID: C-7878-092116-SSH-6144
Lab Sample ID: 240-69825-7
Date Collected: 09/21/16 11:30
Matrix: Solid
Date Received: 09/22/16 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	248213	09/23/16 14:51	JMB	TAL CAN

Client Sample ID: C-7878-092116-SSH-6144
Lab Sample ID: 240-69825-7
Date Collected: 09/21/16 11:30
Matrix: Solid
Date Received: 09/22/16 09:10
Percent Solids: 97.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			248982	09/29/16 08:48	YDN	TAL CAN
Total/NA	Analysis	8082		100	249440	10/03/16 12:11	KMG	TAL CAN

Client Sample ID: C-7878-092116-SSH-6133
Lab Sample ID: 240-69825-10
Date Collected: 09/21/16 12:00
Matrix: Solid
Date Received: 09/22/16 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	248213	09/23/16 14:51	JMB	TAL CAN

Client Sample ID: C-7878-092116-SSH-6133
Lab Sample ID: 240-69825-10
Date Collected: 09/21/16 12:00
Matrix: Solid
Date Received: 09/22/16 09:10
Percent Solids: 89.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			248982	09/29/16 08:48	YDN	TAL CAN
Total/NA	Analysis	8082		200	249440	10/03/16 12:29	KMG	TAL CAN

Client Sample ID: C-7878-092116-SSH-6134
Lab Sample ID: 240-69825-12
Date Collected: 09/21/16 12:20
Matrix: Solid
Date Received: 09/22/16 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	248213	09/23/16 14:51	JMB	TAL CAN

Client Sample ID: C-7878-092116-SSH-6134
Lab Sample ID: 240-69825-12
Date Collected: 09/21/16 12:20
Matrix: Solid
Date Received: 09/22/16 09:10
Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			248982	09/29/16 08:48	YDN	TAL CAN
Total/NA	Analysis	8082		20	249440	10/03/16 12:48	KMG	TAL CAN

Laboratory References:

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

Certification Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-69825-2

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 (WW)	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	09-14-16 *
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 Michigan
10448 Citation Drive
Suite 200
Brighton, MI 48116
Phone: 810.229.2763 Fax:

2.8/C3.2

Chain of Custody Record

163413

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other:

Client Contact	Project Manager: M. Tomka	Site Contact: JE Pardyc	Date: 9/21/16	COC No: 163413
Company Name: GHA	Tel/Fax: 517 884 0510	Lab Contact: D. Heckler	Carrier: FedEx	1 of 1 COCs
Address: 14496 N Sheldon Rd Ste 200	Analysis Turnaround Time			Sampler: S. Hoevemeyer
City/State/Zip: Plymouth MI	☒ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 734 453 5123	TAT if different from Below 5 days			Walk-in Client:
Fax:	☐ 2 weeks			
Project Name: RawTest SMI	☐ 1 week			
Site: SSOW 7878-T01-012	☐ 2 days			
PO #	☐ 1 day			



Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	PCBs	Sample Specific Notes:
C-7878-092116-SSH-6141	9/21/16	1010	G	C	1	N	N	X	
-6142		1020	G	C	1	N	N	X	Hold
-6140		1030	G	C	1	N	N	X	
-6137		1040	G	C	1	N	N	X	Hold
-6143		1050	G	C	1	N	N	X	
-6139		1120	G	C	1	N	N	X	Hold
-6144		1130	G	C	1	N	N	X	Hold
-6136		1140	G	C	1	N	N	X	
-6132		1150	G	C	1	N	N	X	Hold
-6133		1200	G	C	1	N	N	X	Hold
-6131		1210	G	C	1	N	N	X	
C-7878-092116-SSH-6134		1220	G	C	1	N	N	X	Hold

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.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:
raining during collection of 6132, 6133, 6131, 6134

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.: 959402	Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	GHA	9/21/16 1700	[signature]	TA	9/22/16 910
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

TestAmerica Canton Sample Receipt Form/Narrative **Login # : i9825**
Canton Facility

Client GHD Site Name

Cooler Received on 9-22-16 Opened on 9-22-16

Cooler unpacked by:

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

TestAmerica Cooler # Foam Box Client Cooler Box Other

Packing material used: Bubble Wrap Foam Plastic Bag None Other

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form
   IR GUN# IR-8 (CF +0.4 °C) Observed Cooler Temp. 2.8 °C Corrected Cooler Temp. 3.2 °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 1 Yes No
   -Were custody seals on the outside of the cooler(s) signed & dated? Yes No NA
   -Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels be reconciled with the COC? Yes No
9. Were correct bottle(s) used for the test(s) indicated? Yes No
10. Sufficient quantity received to perform indicated analyses? Yes No
11. Are these work share samples? Yes No
    If yes, Questions 11-15 have been checked at the originating laboratory.
11. Were sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# **HC574756**
12. Were VOAs on the COC? Yes No
13. Were air bubbles >6 mm in any VOA vials? Yes No NA
14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # Yes No
15. Was a LL Hg or Me Hg trip blank present? Yes No

Contacted PM Date by via Verbal Voice Mail Other

Concerning

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

15. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.
Sample(s) were received in a broken container.
Sample(s) were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory.
Time preserved: Preservative(s) added/Lot number(s):

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: 240-70107-1
Client Project/Site: 7878, RACER SMI

For:
GHD Services Inc.
14496 Sheldon Road, Suite 200
Plymouth, Michigan 48170

Attn: Rawa Fleisher

Denise D Heckler

Authorized for release by:
10/4/2016 4:13:00 PM

Denise Heckler, Project Manager II
(330)966-9477
denise.heckler@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: 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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Job ID: 240-70107-1

Laboratory: TestAmerica Canton

Narrative

Job Narrative
240-70107-1

Comments
No additional comments.

Receipt
The samples were received on 9/28/2016 9:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8º C.

GC Semi VOA
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: C-7878-092716-SSH-K4-1 (240-70107-3). Due to the poor match with the Aroclor standards, 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.

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

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

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70107-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
X	Surrogate is outside control limits

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
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)

Sample Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70107-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-70107-1	C-7878-092716-SSH-6134	Solid	09/27/16 10:00	09/28/16 09:20
240-70107-2	C-7878-092716-SSH-6135	Solid	09/27/16 10:10	09/28/16 09:20
240-70107-3	C-7878-092716-SSH-K4-1	Solid	09/27/16 10:30	09/28/16 09:20
240-70107-4	C-7878-092716-SSH-K4-2	Solid	09/27/16 10:40	09/28/16 09:20
240-70107-5	C-7878-092716-SSH-K4-3	Solid	09/27/16 10:50	09/28/16 09:20
240-70107-6	C-7878-092716-SSH-K4-4	Solid	09/27/16 11:00	09/28/16 09:20
240-70107-7	C-7878-092716-SSH-K5-1	Solid	09/27/16 12:45	09/28/16 09:20
240-70107-8	C-7878-092716-SSH-K5-2	Solid	09/27/16 12:55	09/28/16 09:20
240-70107-9	C-7878-092716-SSH-K5-3	Solid	09/27/16 13:05	09/28/16 09:20
240-70107-10	C-7878-092716-SSH-K5-4	Solid	09/27/16 13:15	09/28/16 09:20

Detection Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70107-1

Client Sample ID: C-7878-092716-SSH-6134 — Lab Sample ID: 240-70107-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	120		100	28	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: C-7878-092716-SSH-6135 — Lab Sample ID: 240-70107-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	3400		510	140	ug/Kg	5	☼	8082	Total/NA

Client Sample ID: C-7878-092716-SSH-K4-1 — Lab Sample ID: 240-70107-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	62000		10000	2800	ug/Kg	100	☼	8082	Total/NA

Client Sample ID: C-7878-092716-SSH-K4-2 — Lab Sample ID: 240-70107-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	31000		5100	1400	ug/Kg	50	☼	8082	Total/NA

Client Sample ID: C-7878-092716-SSH-K4-3 — Lab Sample ID: 240-70107-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	44000		5200	1500	ug/Kg	50	☼	8082	Total/NA

Client Sample ID: C-7878-092716-SSH-K4-4 — Lab Sample ID: 240-70107-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	10000		1000	280	ug/Kg	10	☼	8082	Total/NA

Client Sample ID: C-7878-092716-SSH-K5-1 — Lab Sample ID: 240-70107-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	260000		10000	2900	ug/Kg	100	☼	8082	Total/NA

Client Sample ID: C-7878-092716-SSH-K5-2 — Lab Sample ID: 240-70107-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	49000		10000	2800	ug/Kg	100	☼	8082	Total/NA

Client Sample ID: C-7878-092716-SSH-K5-3 — Lab Sample ID: 240-70107-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	32000		5100	1400	ug/Kg	50	☼	8082	Total/NA

Client Sample ID: C-7878-092716-SSH-K5-4 — Lab Sample ID: 240-70107-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	8900		1000	290	ug/Kg	10	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70107-1

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
Moisture	Percent Moisture	EPA	TAL CAN

Protocol References:

EPA = US Environmental Protection Agency

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

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-092716-SSH-6134
Date Collected: 09/27/16 10:00
Date Received: 09/28/16 09:20

Lab Sample ID: 240-70107-1
Matrix: Solid
Percent Solids: 96.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	100	U	100	48	ug/Kg	☼	09/30/16 10:47	10/04/16 07:45	1
Aroclor-1221	100	U	100	46	ug/Kg	☼	09/30/16 10:47	10/04/16 07:45	1
Aroclor-1232	100	U	100	32	ug/Kg	☼	09/30/16 10:47	10/04/16 07:45	1
Aroclor-1242	100	U	100	40	ug/Kg	☼	09/30/16 10:47	10/04/16 07:45	1
Aroclor-1248	100	U	100	34	ug/Kg	☼	09/30/16 10:47	10/04/16 07:45	1
Aroclor-1254	**120**		100	28	ug/Kg	☼	09/30/16 10:47	10/04/16 07:45	1
Aroclor-1260	100	U	100	36	ug/Kg	☼	09/30/16 10:47	10/04/16 07:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*73*		*14 - 128*	*09/30/16 10:47*	*10/04/16 07:45*	*1*
DCB Decachlorobiphenyl	*82*		*10 - 132*	*09/30/16 10:47*	*10/04/16 07:45*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70107-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-092716-SSH-6135
Date Collected: 09/27/16 10:10
Date Received: 09/28/16 09:20

Lab Sample ID: 240-70107-2
Matrix: Solid
Percent Solids: 96.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	510	U	510	240	ug/Kg	☼	09/30/16 10:47	10/04/16 08:04	5
Aroclor-1221	510	U	510	230	ug/Kg	☼	09/30/16 10:47	10/04/16 08:04	5
Aroclor-1232	510	U	510	160	ug/Kg	☼	09/30/16 10:47	10/04/16 08:04	5
Aroclor-1242	510	U	510	200	ug/Kg	☼	09/30/16 10:47	10/04/16 08:04	5
Aroclor-1248	510	U	510	170	ug/Kg	☼	09/30/16 10:47	10/04/16 08:04	5
Aroclor-1254	**3400**		510	140	ug/Kg	☼	09/30/16 10:47	10/04/16 08:04	5
Aroclor-1260	510	U	510	180	ug/Kg	☼	09/30/16 10:47	10/04/16 08:04	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*89*		*14 - 128*	*09/30/16 10:47*	*10/04/16 08:04*	*5*
DCB Decachlorobiphenyl	*64*		*10 - 132*	*09/30/16 10:47*	*10/04/16 08:04*	*5*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70107-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-092716-SSH-K4-1
Date Collected: 09/27/16 10:30
Date Received: 09/28/16 09:20

Lab Sample ID: 240-70107-3
Matrix: Solid
Percent Solids: 99.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	10000	U	10000	4800	ug/Kg	☼	09/30/16 10:47	10/04/16 08:22	100
Aroclor-1221	10000	U	10000	4600	ug/Kg	☼	09/30/16 10:47	10/04/16 08:22	100
Aroclor-1232	10000	U	10000	3200	ug/Kg	☼	09/30/16 10:47	10/04/16 08:22	100
Aroclor-1242	10000	U	10000	4000	ug/Kg	☼	09/30/16 10:47	10/04/16 08:22	100
Aroclor-1248	10000	U	10000	3400	ug/Kg	☼	09/30/16 10:47	10/04/16 08:22	100
Aroclor-1254	**62000**		10000	2800	ug/Kg	☼	09/30/16 10:47	10/04/16 08:22	100
Aroclor-1260	10000	U	10000	3600	ug/Kg	☼	09/30/16 10:47	10/04/16 08:22	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*205*	*X*	*14 - 128*	*09/30/16 10:47*	*10/04/16 08:22*	*100*
DCB Decachlorobiphenyl	*114*		*10 - 132*	*09/30/16 10:47*	*10/04/16 08:22*	*100*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70107-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-092716-SSH-K4-2
Date Collected: 09/27/16 10:40
Date Received: 09/28/16 09:20

Lab Sample ID: 240-70107-4
Matrix: Solid
Percent Solids: 97.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	5100	U	5100	2400	ug/Kg	☼	09/30/16 10:47	10/04/16 08:41	50
Aroclor-1221	5100	U	5100	2300	ug/Kg	☼	09/30/16 10:47	10/04/16 08:41	50
Aroclor-1232	5100	U	5100	1600	ug/Kg	☼	09/30/16 10:47	10/04/16 08:41	50
Aroclor-1242	5100	U	5100	2000	ug/Kg	☼	09/30/16 10:47	10/04/16 08:41	50
Aroclor-1248	5100	U	5100	1700	ug/Kg	☼	09/30/16 10:47	10/04/16 08:41	50
Aroclor-1254	**31000**		5100	1400	ug/Kg	☼	09/30/16 10:47	10/04/16 08:41	50
Aroclor-1260	5100	U	5100	1800	ug/Kg	☼	09/30/16 10:47	10/04/16 08:41	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*157*	*X*	*14 - 128*	*09/30/16 10:47*	*10/04/16 08:41*	*50*
DCB Decachlorobiphenyl	*108*		*10 - 132*	*09/30/16 10:47*	*10/04/16 08:41*	*50*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70107-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-092716-SSH-K4-3
Date Collected: 09/27/16 10:50
Date Received: 09/28/16 09:20

Lab Sample ID: 240-70107-5
Matrix: Solid
Percent Solids: 96.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	5200	U	5200	2500	ug/Kg	☼	09/30/16 10:47	10/04/16 09:00	50
Aroclor-1221	5200	U	5200	2400	ug/Kg	☼	09/30/16 10:47	10/04/16 09:00	50
Aroclor-1232	5200	U	5200	1700	ug/Kg	☼	09/30/16 10:47	10/04/16 09:00	50
Aroclor-1242	5200	U	5200	2100	ug/Kg	☼	09/30/16 10:47	10/04/16 09:00	50
Aroclor-1248	5200	U	5200	1800	ug/Kg	☼	09/30/16 10:47	10/04/16 09:00	50
Aroclor-1254	**44000**		5200	1500	ug/Kg	☼	09/30/16 10:47	10/04/16 09:00	50
Aroclor-1260	5200	U	5200	1900	ug/Kg	☼	09/30/16 10:47	10/04/16 09:00	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*144*	*X*	*14 - 128*	*09/30/16 10:47*	*10/04/16 09:00*	*50*
DCB Decachlorobiphenyl	*95*		*10 - 132*	*09/30/16 10:47*	*10/04/16 09:00*	*50*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70107-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-092716-SSH-K4-4
Date Collected: 09/27/16 11:00
Date Received: 09/28/16 09:20

Lab Sample ID: 240-70107-6
Matrix: Solid
Percent Solids: 97.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	1000	U	1000	490	ug/Kg	☼	09/30/16 10:47	10/04/16 09:19	10
Aroclor-1221	1000	U	1000	470	ug/Kg	☼	09/30/16 10:47	10/04/16 09:19	10
Aroclor-1232	1000	U	1000	320	ug/Kg	☼	09/30/16 10:47	10/04/16 09:19	10
Aroclor-1242	1000	U	1000	410	ug/Kg	☼	09/30/16 10:47	10/04/16 09:19	10
Aroclor-1248	1000	U	1000	350	ug/Kg	☼	09/30/16 10:47	10/04/16 09:19	10
Aroclor-1254	**10000**		1000	280	ug/Kg	☼	09/30/16 10:47	10/04/16 09:19	10
Aroclor-1260	1000	U	1000	370	ug/Kg	☼	09/30/16 10:47	10/04/16 09:19	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*110*		*14 - 128*	*09/30/16 10:47*	*10/04/16 09:19*	*10*
DCB Decachlorobiphenyl	*109*		*10 - 132*	*09/30/16 10:47*	*10/04/16 09:19*	*10*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70107-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-092716-SSH-K5-1
Date Collected: 09/27/16 12:45
Date Received: 09/28/16 09:20

Lab Sample ID: 240-70107-7
Matrix: Solid
Percent Solids: 96.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	10000	U	10000	5000	ug/Kg	☼	09/30/16 10:47	10/04/16 09:38	100
Aroclor-1221	10000	U	10000	4700	ug/Kg	☼	09/30/16 10:47	10/04/16 09:38	100
Aroclor-1232	10000	U	10000	3300	ug/Kg	☼	09/30/16 10:47	10/04/16 09:38	100
Aroclor-1242	10000	U	10000	4100	ug/Kg	☼	09/30/16 10:47	10/04/16 09:38	100
Aroclor-1248	10000	U	10000	3500	ug/Kg	☼	09/30/16 10:47	10/04/16 09:38	100
Aroclor-1254	**260000**		10000	2900	ug/Kg	☼	09/30/16 10:47	10/04/16 09:38	100
Aroclor-1260	10000	U	10000	3700	ug/Kg	☼	09/30/16 10:47	10/04/16 09:38	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*218*	*X*	*14 - 128*	*09/30/16 10:47*	*10/04/16 09:38*	*100*
DCB Decachlorobiphenyl	*151*	*X*	*10 - 132*	*09/30/16 10:47*	*10/04/16 09:38*	*100*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70107-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-092716-SSH-K5-2
Date Collected: 09/27/16 12:55
Date Received: 09/28/16 09:20

Lab Sample ID: 240-70107-8
Matrix: Solid
Percent Solids: 97.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	10000	U	10000	4800	ug/Kg	☼	09/30/16 10:47	10/04/16 09:57	100
Aroclor-1221	10000	U	10000	4600	ug/Kg	☼	09/30/16 10:47	10/04/16 09:57	100
Aroclor-1232	10000	U	10000	3200	ug/Kg	☼	09/30/16 10:47	10/04/16 09:57	100
Aroclor-1242	10000	U	10000	4000	ug/Kg	☼	09/30/16 10:47	10/04/16 09:57	100
Aroclor-1248	10000	U	10000	3400	ug/Kg	☼	09/30/16 10:47	10/04/16 09:57	100
Aroclor-1254	**49000**		10000	2800	ug/Kg	☼	09/30/16 10:47	10/04/16 09:57	100
Aroclor-1260	10000	U	10000	3600	ug/Kg	☼	09/30/16 10:47	10/04/16 09:57	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*179*	*X*	*14 - 128*	*09/30/16 10:47*	*10/04/16 09:57*	*100*
DCB Decachlorobiphenyl	*136*	*X*	*10 - 132*	*09/30/16 10:47*	*10/04/16 09:57*	*100*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70107-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-092716-SSH-K5-3
Date Collected: 09/27/16 13:05
Date Received: 09/28/16 09:20

Lab Sample ID: 240-70107-9
Matrix: Solid
Percent Solids: 97.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	5100	U	5100	2400	ug/Kg	☼	09/30/16 10:47	10/04/16 10:16	50
Aroclor-1221	5100	U	5100	2300	ug/Kg	☼	09/30/16 10:47	10/04/16 10:16	50
Aroclor-1232	5100	U	5100	1600	ug/Kg	☼	09/30/16 10:47	10/04/16 10:16	50
Aroclor-1242	5100	U	5100	2000	ug/Kg	☼	09/30/16 10:47	10/04/16 10:16	50
Aroclor-1248	5100	U	5100	1700	ug/Kg	☼	09/30/16 10:47	10/04/16 10:16	50
Aroclor-1254	**32000**		5100	1400	ug/Kg	☼	09/30/16 10:47	10/04/16 10:16	50
Aroclor-1260	5100	U	5100	1800	ug/Kg	☼	09/30/16 10:47	10/04/16 10:16	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*138*	*X*	*14 - 128*	*09/30/16 10:47*	*10/04/16 10:16*	*50*
DCB Decachlorobiphenyl	*125*		*10 - 132*	*09/30/16 10:47*	*10/04/16 10:16*	*50*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70107-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-092716-SSH-K5-4
Date Collected: 09/27/16 13:15
Date Received: 09/28/16 09:20

Lab Sample ID: 240-70107-10
Matrix: Solid
Percent Solids: 95.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	1000	U	1000	500	ug/Kg	☼	09/30/16 10:47	10/04/16 10:35	10
Aroclor-1221	1000	U	1000	480	ug/Kg	☼	09/30/16 10:47	10/04/16 10:35	10
Aroclor-1232	1000	U	1000	330	ug/Kg	☼	09/30/16 10:47	10/04/16 10:35	10
Aroclor-1242	1000	U	1000	420	ug/Kg	☼	09/30/16 10:47	10/04/16 10:35	10
Aroclor-1248	1000	U	1000	360	ug/Kg	☼	09/30/16 10:47	10/04/16 10:35	10
Aroclor-1254	**8900**		1000	290	ug/Kg	☼	09/30/16 10:47	10/04/16 10:35	10
Aroclor-1260	1000	U	1000	380	ug/Kg	☼	09/30/16 10:47	10/04/16 10:35	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*100*		*14 - 128*	*09/30/16 10:47*	*10/04/16 10:35*	*10*
DCB Decachlorobiphenyl	*81*		*10 - 132*	*09/30/16 10:47*	*10/04/16 10:35*	*10*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70107-1

General Chemistry

Client Sample ID: C-7878-092716-SSH-6134
Date Collected: 09/27/16 10:00
Date Received: 09/28/16 09:20

Lab Sample ID: 240-70107-1
Matrix: Solid
Percent Solids: 96.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96.6		0.1	0.1	%			09/30/16 12:42	1
Percent Moisture	3.4		0.1	0.1	%			09/30/16 12:42	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70107-1

General Chemistry

Client Sample ID: C-7878-092716-SSH-6135
Date Collected: 09/27/16 10:10
Date Received: 09/28/16 09:20

Lab Sample ID: 240-70107-2
Matrix: Solid
Percent Solids: 96.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96.8		0.1	0.1	%			09/30/16 12:42	1
Percent Moisture	3.2		0.1	0.1	%			09/30/16 12:42	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70107-1

General Chemistry

Client Sample ID: C-7878-092716-SSH-K4-1
Date Collected: 09/27/16 10:30
Date Received: 09/28/16 09:20

Lab Sample ID: 240-70107-3
Matrix: Solid
Percent Solids: 99.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	99.1		0.1	0.1	%			09/30/16 12:42	1
Percent Moisture	0.9		0.1	0.1	%			09/30/16 12:42	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70107-1

General Chemistry

Client Sample ID: C-7878-092716-SSH-K4-2
Date Collected: 09/27/16 10:40
Date Received: 09/28/16 09:20

Lab Sample ID: 240-70107-4
Matrix: Solid
Percent Solids: 97.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97.3		0.1	0.1	%			09/30/16 12:42	1
Percent Moisture	2.7		0.1	0.1	%			09/30/16 12:42	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70107-1

General Chemistry

Client Sample ID: C-7878-092716-SSH-K4-3
Date Collected: 09/27/16 10:50
Date Received: 09/28/16 09:20

Lab Sample ID: 240-70107-5
Matrix: Solid
Percent Solids: 96.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96.1		0.1	0.1	%			09/30/16 12:42	1
Percent Moisture	3.9		0.1	0.1	%			09/30/16 12:42	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70107-1

General Chemistry

Client Sample ID: C-7878-092716-SSH-K4-4
Date Collected: 09/27/16 11:00
Date Received: 09/28/16 09:20

Lab Sample ID: 240-70107-6
Matrix: Solid
Percent Solids: 97.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**97.0**		0.1	0.1	%			09/30/16 12:42	1
Percent Moisture	**3.0**		0.1	0.1	%			09/30/16 12:42	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70107-1

General Chemistry

Client Sample ID: C-7878-092716-SSH-K5-1
Date Collected: 09/27/16 12:45
Date Received: 09/28/16 09:20

Lab Sample ID: 240-70107-7
Matrix: Solid
Percent Solids: 96.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96.0		0.1	0.1	%			09/30/16 12:42	1
Percent Moisture	4.0		0.1	0.1	%			09/30/16 12:42	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70107-1

General Chemistry

Client Sample ID: C-7878-092716-SSH-K5-2
Date Collected: 09/27/16 12:55
Date Received: 09/28/16 09:20

Lab Sample ID: 240-70107-8
Matrix: Solid
Percent Solids: 97.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**97.4**		0.1	0.1	%			09/30/16 12:42	1
Percent Moisture	**2.6**		0.1	0.1	%			09/30/16 12:42	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70107-1

General Chemistry

Client Sample ID: C-7878-092716-SSH-K5-3
Date Collected: 09/27/16 13:05
Date Received: 09/28/16 09:20

Lab Sample ID: 240-70107-9
Matrix: Solid
Percent Solids: 97.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97.8		0.1	0.1	%			09/30/16 12:42	1
Percent Moisture	2.2		0.1	0.1	%			09/30/16 12:42	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70107-1

General Chemistry

Client Sample ID: C-7878-092716-SSH-K5-4
Date Collected: 09/27/16 13:15
Date Received: 09/28/16 09:20

Lab Sample ID: 240-70107-10
Matrix: Solid
Percent Solids: 95.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	95.1		0.1	0.1	%			09/30/16 12:42	1
Percent Moisture	4.9		0.1	0.1	%			09/30/16 12:42	1

GC Semi VOA

Prep Batch: 249203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-70107-1	C-7878-092716-SSH-6134	Total/NA	Solid	3540C	
240-70107-2	C-7878-092716-SSH-6135	Total/NA	Solid	3540C	
240-70107-3	C-7878-092716-SSH-K4-1	Total/NA	Solid	3540C	
240-70107-4	C-7878-092716-SSH-K4-2	Total/NA	Solid	3540C	
240-70107-5	C-7878-092716-SSH-K4-3	Total/NA	Solid	3540C	
240-70107-6	C-7878-092716-SSH-K4-4	Total/NA	Solid	3540C	
240-70107-7	C-7878-092716-SSH-K5-1	Total/NA	Solid	3540C	
240-70107-8	C-7878-092716-SSH-K5-2	Total/NA	Solid	3540C	
240-70107-9	C-7878-092716-SSH-K5-3	Total/NA	Solid	3540C	
240-70107-10	C-7878-092716-SSH-K5-4	Total/NA	Solid	3540C	
MB 240-249203/17-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-249203/18-A	Lab Control Sample	Total/NA	Solid	3540C	

Analysis Batch: 249606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-70107-1	C-7878-092716-SSH-6134	Total/NA	Solid	8082	249203
240-70107-2	C-7878-092716-SSH-6135	Total/NA	Solid	8082	249203
240-70107-3	C-7878-092716-SSH-K4-1	Total/NA	Solid	8082	249203
240-70107-4	C-7878-092716-SSH-K4-2	Total/NA	Solid	8082	249203
240-70107-5	C-7878-092716-SSH-K4-3	Total/NA	Solid	8082	249203
240-70107-6	C-7878-092716-SSH-K4-4	Total/NA	Solid	8082	249203
240-70107-7	C-7878-092716-SSH-K5-1	Total/NA	Solid	8082	249203
240-70107-8	C-7878-092716-SSH-K5-2	Total/NA	Solid	8082	249203
240-70107-9	C-7878-092716-SSH-K5-3	Total/NA	Solid	8082	249203
240-70107-10	C-7878-092716-SSH-K5-4	Total/NA	Solid	8082	249203
MB 240-249203/17-A	Method Blank	Total/NA	Solid	8082	249203
LCS 240-249203/18-A	Lab Control Sample	Total/NA	Solid	8082	249203

General Chemistry

Analysis Batch: 249246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-70107-1	C-7878-092716-SSH-6134	Total/NA	Solid	Moisture	
240-70107-2	C-7878-092716-SSH-6135	Total/NA	Solid	Moisture	
240-70107-3	C-7878-092716-SSH-K4-1	Total/NA	Solid	Moisture	
240-70107-4	C-7878-092716-SSH-K4-2	Total/NA	Solid	Moisture	
240-70107-5	C-7878-092716-SSH-K4-3	Total/NA	Solid	Moisture	
240-70107-6	C-7878-092716-SSH-K4-4	Total/NA	Solid	Moisture	
240-70107-7	C-7878-092716-SSH-K5-1	Total/NA	Solid	Moisture	
240-70107-8	C-7878-092716-SSH-K5-2	Total/NA	Solid	Moisture	
240-70107-9	C-7878-092716-SSH-K5-3	Total/NA	Solid	Moisture	
240-70107-10	C-7878-092716-SSH-K5-4	Total/NA	Solid	Moisture	
240-70107-4 DU	C-7878-092716-SSH-K4-2	Total/NA	Solid	Moisture	

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-249203/17-A
Matrix: Solid
Analysis Batch: 249606

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 249203

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	100	U	100	48	ug/Kg		09/30/16 10:47	10/04/16 12:49	1
Aroclor-1221	100	U	100	46	ug/Kg		09/30/16 10:47	10/04/16 12:49	1
Aroclor-1232	100	U	100	32	ug/Kg		09/30/16 10:47	10/04/16 12:49	1
Aroclor-1242	100	U	100	40	ug/Kg		09/30/16 10:47	10/04/16 12:49	1
Aroclor-1248	100	U	100	34	ug/Kg		09/30/16 10:47	10/04/16 12:49	1
Aroclor-1254	100	U	100	28	ug/Kg		09/30/16 10:47	10/04/16 12:49	1
Aroclor-1260	100	U	100	36	ug/Kg		09/30/16 10:47	10/04/16 12:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*91*		*14 - 128*	*09/30/16 10:47*	*10/04/16 12:49*	*1*
DCB Decachlorobiphenyl	*95*		*10 - 132*	*09/30/16 10:47*	*10/04/16 12:49*	*1*

Lab Sample ID: LCS 240-249203/18-A
Matrix: Solid
Analysis Batch: 249606

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 249203

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor-1016			2000	1590		ug/Kg		80	47 - 120		
Aroclor-1260			2000	1630		ug/Kg		82	46 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*80*		*14 - 128*
DCB Decachlorobiphenyl	*62*		*10 - 132*

Method: Moisture - Percent Moisture

Lab Sample ID: 240-70107-4 DU
Matrix: Solid
Analysis Batch: 249246

Client Sample ID: C-7878-092716-SSH-K4-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Solids	97.3			97.3		%				0	20
Percent Moisture	2.7			2.7		%				0.7	20

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70107-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	TCX1 (14-128)	DCB1 (10-132)								
240-70107-1	C-7878-092716-SSH-6134	73	82								
240-70107-2	C-7878-092716-SSH-6135	89	64								
240-70107-3	C-7878-092716-SSH-K4-1	205 X	114								
240-70107-4	C-7878-092716-SSH-K4-2	157 X	108								
240-70107-5	C-7878-092716-SSH-K4-3	144 X	95								
240-70107-6	C-7878-092716-SSH-K4-4	110	109								
240-70107-7	C-7878-092716-SSH-K5-1	218 X	151 X								
240-70107-8	C-7878-092716-SSH-K5-2	179 X	136 X								
240-70107-9	C-7878-092716-SSH-K5-3	138 X	125								
240-70107-10	C-7878-092716-SSH-K5-4	100	81								
LCS 240-249203/18-A	Lab Control Sample	80	62								
MB 240-249203/17-A	Method Blank	91	95								

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70107-1

Client Sample ID: C-7878-092716-SSH-6134
Lab Sample ID: 240-70107-1
Date Collected: 09/27/16 10:00
Matrix: Solid
Date Received: 09/28/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	249246	09/30/16 12:42	JMB	TAL CAN

Client Sample ID: C-7878-092716-SSH-6134
Lab Sample ID: 240-70107-1
Date Collected: 09/27/16 10:00
Matrix: Solid
Date Received: 09/28/16 09:20
Percent Solids: 96.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			249203	09/30/16 10:47	DT	TAL CAN
Total/NA	Analysis	8082		1	249606	10/04/16 07:45	CSC	TAL CAN

Client Sample ID: C-7878-092716-SSH-6135
Lab Sample ID: 240-70107-2
Date Collected: 09/27/16 10:10
Matrix: Solid
Date Received: 09/28/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	249246	09/30/16 12:42	JMB	TAL CAN

Client Sample ID: C-7878-092716-SSH-6135
Lab Sample ID: 240-70107-2
Date Collected: 09/27/16 10:10
Matrix: Solid
Date Received: 09/28/16 09:20
Percent Solids: 96.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			249203	09/30/16 10:47	DT	TAL CAN
Total/NA	Analysis	8082		5	249606	10/04/16 08:04	CSC	TAL CAN

Client Sample ID: C-7878-092716-SSH-K4-1
Lab Sample ID: 240-70107-3
Date Collected: 09/27/16 10:30
Matrix: Solid
Date Received: 09/28/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	249246	09/30/16 12:42	JMB	TAL CAN

Client Sample ID: C-7878-092716-SSH-K4-1
Lab Sample ID: 240-70107-3
Date Collected: 09/27/16 10:30
Matrix: Solid
Date Received: 09/28/16 09:20
Percent Solids: 99.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			249203	09/30/16 10:47	DT	TAL CAN
Total/NA	Analysis	8082		100	249606	10/04/16 08:22	CSC	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70107-1

Client Sample ID: C-7878-092716-SSH-K4-2
Lab Sample ID: 240-70107-4
Date Collected: 09/27/16 10:40
Matrix: Solid
Date Received: 09/28/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	249246	09/30/16 12:42	JMB	TAL CAN

Client Sample ID: C-7878-092716-SSH-K4-2
Lab Sample ID: 240-70107-4
Date Collected: 09/27/16 10:40
Matrix: Solid
Date Received: 09/28/16 09:20
Percent Solids: 97.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			249203	09/30/16 10:47	DT	TAL CAN
Total/NA	Analysis	8082		50	249606	10/04/16 08:41	CSC	TAL CAN

Client Sample ID: C-7878-092716-SSH-K4-3
Lab Sample ID: 240-70107-5
Date Collected: 09/27/16 10:50
Matrix: Solid
Date Received: 09/28/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	249246	09/30/16 12:42	JMB	TAL CAN

Client Sample ID: C-7878-092716-SSH-K4-3
Lab Sample ID: 240-70107-5
Date Collected: 09/27/16 10:50
Matrix: Solid
Date Received: 09/28/16 09:20
Percent Solids: 96.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			249203	09/30/16 10:47	DT	TAL CAN
Total/NA	Analysis	8082		50	249606	10/04/16 09:00	CSC	TAL CAN

Client Sample ID: C-7878-092716-SSH-K4-4
Lab Sample ID: 240-70107-6
Date Collected: 09/27/16 11:00
Matrix: Solid
Date Received: 09/28/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	249246	09/30/16 12:42	JMB	TAL CAN

Client Sample ID: C-7878-092716-SSH-K4-4
Lab Sample ID: 240-70107-6
Date Collected: 09/27/16 11:00
Matrix: Solid
Date Received: 09/28/16 09:20
Percent Solids: 97.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			249203	09/30/16 10:47	DT	TAL CAN
Total/NA	Analysis	8082		10	249606	10/04/16 09:19	CSC	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70107-1

Client Sample ID: C-7878-092716-SSH-K5-1
Lab Sample ID: 240-70107-7
Date Collected: 09/27/16 12:45
Matrix: Solid
Date Received: 09/28/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	249246	09/30/16 12:42	JMB	TAL CAN

Client Sample ID: C-7878-092716-SSH-K5-1
Lab Sample ID: 240-70107-7
Date Collected: 09/27/16 12:45
Matrix: Solid
Date Received: 09/28/16 09:20
Percent Solids: 96.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			249203	09/30/16 10:47	DT	TAL CAN
Total/NA	Analysis	8082		100	249606	10/04/16 09:38	CSC	TAL CAN

Client Sample ID: C-7878-092716-SSH-K5-2
Lab Sample ID: 240-70107-8
Date Collected: 09/27/16 12:55
Matrix: Solid
Date Received: 09/28/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	249246	09/30/16 12:42	JMB	TAL CAN

Client Sample ID: C-7878-092716-SSH-K5-2
Lab Sample ID: 240-70107-8
Date Collected: 09/27/16 12:55
Matrix: Solid
Date Received: 09/28/16 09:20
Percent Solids: 97.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			249203	09/30/16 10:47	DT	TAL CAN
Total/NA	Analysis	8082		100	249606	10/04/16 09:57	CSC	TAL CAN

Client Sample ID: C-7878-092716-SSH-K5-3
Lab Sample ID: 240-70107-9
Date Collected: 09/27/16 13:05
Matrix: Solid
Date Received: 09/28/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	249246	09/30/16 12:42	JMB	TAL CAN

Client Sample ID: C-7878-092716-SSH-K5-3
Lab Sample ID: 240-70107-9
Date Collected: 09/27/16 13:05
Matrix: Solid
Date Received: 09/28/16 09:20
Percent Solids: 97.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			249203	09/30/16 10:47	DT	TAL CAN
Total/NA	Analysis	8082		50	249606	10/04/16 10:16	CSC	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70107-1

Client Sample ID: C-7878-092716-SSH-K5-4 — **Lab Sample ID: 240-70107-10**
Date Collected: 09/27/16 13:15 — **Matrix: Solid**
Date Received: 09/28/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	249246	09/30/16 12:42	JMB	TAL CAN

Client Sample ID: C-7878-092716-SSH-K5-4 — **Lab Sample ID: 240-70107-10**
Date Collected: 09/27/16 13:15 — **Matrix: Solid**
Date Received: 09/28/16 09:20 — **Percent Solids: 95.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			249203	09/30/16 10:47	DT	TAL CAN
Total/NA	Analysis	8082		10	249606	10/04/16 10:35	CSC	TAL CAN

Laboratory References:

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

Certification Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70107-1

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 (WW)	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	09-14-16 *
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 Michigan
10448 Citation Drive
Suite 200
Brighton, MI 48116
Phone: 810.229.2763 Fax:

2.4/C2.8

Chain of Custody Record

163420

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other:

Client Contact	Project Manager: M Tomka	Site Contact: JE Pardys	Date: 9/27/16	COC No: 163420, 163421
Company Name: GHD	Tel/Fax: 519 884 0510	Lab Contact: D Heuiller	Carrier: FedEx	2 of 2 COCs
Address: 14496 N. Sheldon Rd Ste 200	Analysis Turnaround Time			Sampler: S. Hoevemeyer
City/State/Zip: Plymouth MI 48170	☒ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 734 453 5123	TAT if different from Below 5 days			Walk-in Client:
Fax:	☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day			Lab Sampling:
Project Name: RawTrust SMI				Job / SDG No.:
Site: SSOW 7878-T01-012				
P O #				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs	Sample Specific Notes:
C-7878-092716-SSH-6134	9/27/16	1000	G	C	1	N	N	X	
-6135		1010	G	C	1	N	N	X	
-MW-1		1030	G	C	1	N	N	X	
-MW-2		1040	G	C	1	N	N	X	
-MW-3		1050	G	C	1	N	N	X	
-MW-4		1100	G	C	1	N	N	X	
-MS-1		1245	G	C	1	N	N	X	
-MS-2		1255	G	C	1	N	N	X	
-MS-3		1305	G	C	1	N	N	X	
C-7878-092716-SSH-MS-4		1315	G	C	1	N	N	X	
SSH									

240-70107 Chain of Custody

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.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:
TAT- 5 days

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.: 188595	Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	GHD	9/27/16 1700	[signature]	TANC	9/28/16 9:20
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

10/4/2016

TestAmerica Canton Sample Receipt Form/Narrative **Login # : 7967**

Canton Facility

Client CHD Site Name _____ Cooler unpacked by:

Cooler Received on 9/28/16 Opened on 9/28/16

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # _____ Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN# IR-8 (CF +0.4 °C) Observed Cooler Temp. 2.4 °C Corrected Cooler Temp. 2.8 °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 No
-Were custody seals on the outside of the cooler(s) signed & dated?		Yes No NA
-Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?		Yes No
3. Shippers' packing slip attached to the cooler(s)?		Yes No
4. Did custody papers accompany the sample(s)?		Yes No
5. Were the custody papers relinquished & signed in the appropriate place?		Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC?		Yes No
7. Did all bottles arrive in good condition (Unbroken)?		Yes No
8. Could all bottle labels be reconciled with the COC?		Yes No
9. Were correct bottle(s) used for the test(s) indicated?		Yes No
10. Sufficient quantity received to perform indicated analyses?		Yes No
11. Are these work share samples?		Yes No
If yes, Questions 11-15 have been checked at the originating laboratory.		
11. Were sample(s) at the correct pH upon receipt?		Yes No NA pH Strip Lot# **HC574756**
12. Were VOAs on the COC?		Yes No
13. Were air bubbles >6 mm in any VOA vials?		Yes No NA
14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____		Yes No
15. Was a LL Hg or Me Hg trip blank present? _____		Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by:

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

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: 240-70108-1
Client Project/Site: 7878, RACER SMI

For:
GHD Services Inc.
14496 Sheldon Road, Suite 200
Plymouth, Michigan 48170

Attn: Rawa Fleisher

Denise D Heckler

Authorized for release by:
10/4/2016 4:20:14 PM

Denise Heckler, Project Manager II
(330)966-9477
denise.heckler@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: 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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Job ID: 240-70108-1

Laboratory: TestAmerica Canton

Narrative

Job Narrative
240-70108-1

Comments
No additional comments.

Receipt
The samples were received on 9/28/2016 9:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8º C.

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

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

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

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
X	Surrogate is outside control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits

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
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)

Sample Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70108-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-70108-1	C-7878-092716-SSH-K16-1	Solid	09/27/16 14:10	09/28/16 09:20
240-70108-2	C-7878-092716-SSH-K16-2	Solid	09/27/16 14:20	09/28/16 09:20
240-70108-3	C-7878-092716-SSH-K16-3	Solid	09/27/16 14:30	09/28/16 09:20
240-70108-4	C-7878-092716-SSH-K16-4	Solid	09/27/16 14:40	09/28/16 09:20

Detection Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70108-1

Client Sample ID: C-7878-092716-SSH-K16-1 — Lab Sample ID: 240-70108-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	260000		9900	2800	ug/Kg	100	☼	8082	Total/NA

Client Sample ID: C-7878-092716-SSH-K16-2 — Lab Sample ID: 240-70108-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	8800		1000	280	ug/Kg	10	☼	8082	Total/NA

Client Sample ID: C-7878-092716-SSH-K16-3 — Lab Sample ID: 240-70108-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	17000		1000	290	ug/Kg	10	☼	8082	Total/NA

Client Sample ID: C-7878-092716-SSH-K16-4 — Lab Sample ID: 240-70108-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	34000		5100	1400	ug/Kg	50	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70108-1

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
Moisture	Percent Moisture	EPA	TAL CAN

Protocol References:

EPA = US Environmental Protection Agency

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

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-092716-SSH-K16-1
Date Collected: 09/27/16 14:10
Date Received: 09/28/16 09:20

Lab Sample ID: 240-70108-1
Matrix: Solid
Percent Solids: 97.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	9900	U	9900	4800	ug/Kg	☼	09/30/16 10:47	10/04/16 10:54	100
Aroclor-1221	9900	U	9900	4600	ug/Kg	☼	09/30/16 10:47	10/04/16 10:54	100
Aroclor-1232	9900	U	9900	3200	ug/Kg	☼	09/30/16 10:47	10/04/16 10:54	100
Aroclor-1242	9900	U	9900	4000	ug/Kg	☼	09/30/16 10:47	10/04/16 10:54	100
Aroclor-1248	9900	U	9900	3400	ug/Kg	☼	09/30/16 10:47	10/04/16 10:54	100
Aroclor-1254	**260000**		9900	2800	ug/Kg	☼	09/30/16 10:47	10/04/16 10:54	100
Aroclor-1260	9900	U	9900	3600	ug/Kg	☼	09/30/16 10:47	10/04/16 10:54	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*176*	*X*	*14 - 128*	*09/30/16 10:47*	*10/04/16 10:54*	*100*
DCB Decachlorobiphenyl	*119*		*10 - 132*	*09/30/16 10:47*	*10/04/16 10:54*	*100*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70108-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-092716-SSH-K16-2
Date Collected: 09/27/16 14:20
Date Received: 09/28/16 09:20

Lab Sample ID: 240-70108-2
Matrix: Solid
Percent Solids: 96.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	1000	U	1000	480	ug/Kg	☼	09/30/16 10:47	10/04/16 11:13	10
Aroclor-1221	1000	U	1000	460	ug/Kg	☼	09/30/16 10:47	10/04/16 11:13	10
Aroclor-1232	1000	U	1000	320	ug/Kg	☼	09/30/16 10:47	10/04/16 11:13	10
Aroclor-1242	1000	U	1000	400	ug/Kg	☼	09/30/16 10:47	10/04/16 11:13	10
Aroclor-1248	1000	U	1000	340	ug/Kg	☼	09/30/16 10:47	10/04/16 11:13	10
Aroclor-1254	**8800**		1000	280	ug/Kg	☼	09/30/16 10:47	10/04/16 11:13	10
Aroclor-1260	1000	U	1000	360	ug/Kg	☼	09/30/16 10:47	10/04/16 11:13	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*127*		*14 - 128*	*09/30/16 10:47*	*10/04/16 11:13*	*10*
DCB Decachlorobiphenyl	*96*		*10 - 132*	*09/30/16 10:47*	*10/04/16 11:13*	*10*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70108-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-092716-SSH-K16-3
Date Collected: 09/27/16 14:30
Date Received: 09/28/16 09:20

Lab Sample ID: 240-70108-3
Matrix: Solid
Percent Solids: 95.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	1000	U	1000	500	ug/Kg	☼	09/30/16 10:47	10/04/16 11:33	10
Aroclor-1221	1000	U	1000	480	ug/Kg	☼	09/30/16 10:47	10/04/16 11:33	10
Aroclor-1232	1000	U	1000	330	ug/Kg	☼	09/30/16 10:47	10/04/16 11:33	10
Aroclor-1242	1000	U	1000	410	ug/Kg	☼	09/30/16 10:47	10/04/16 11:33	10
Aroclor-1248	1000	U	1000	350	ug/Kg	☼	09/30/16 10:47	10/04/16 11:33	10
Aroclor-1254	**17000**		1000	290	ug/Kg	☼	09/30/16 10:47	10/04/16 11:33	10
Aroclor-1260	1000	U	1000	370	ug/Kg	☼	09/30/16 10:47	10/04/16 11:33	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*117*		*14 - 128*	*09/30/16 10:47*	*10/04/16 11:33*	*10*
DCB Decachlorobiphenyl	*96*		*10 - 132*	*09/30/16 10:47*	*10/04/16 11:33*	*10*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70108-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-092716-SSH-K16-4
Date Collected: 09/27/16 14:40
Date Received: 09/28/16 09:20

Lab Sample ID: 240-70108-4
Matrix: Solid
Percent Solids: 95.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	5100	U	5100	2500	ug/Kg	☼	09/30/16 10:47	10/04/16 11:52	50
Aroclor-1221	5100	U	5100	2400	ug/Kg	☼	09/30/16 10:47	10/04/16 11:52	50
Aroclor-1232	5100	U	5100	1600	ug/Kg	☼	09/30/16 10:47	10/04/16 11:52	50
Aroclor-1242	5100	U	5100	2100	ug/Kg	☼	09/30/16 10:47	10/04/16 11:52	50
Aroclor-1248	5100	U	5100	1700	ug/Kg	☼	09/30/16 10:47	10/04/16 11:52	50
Aroclor-1254	**34000**		5100	1400	ug/Kg	☼	09/30/16 10:47	10/04/16 11:52	50
Aroclor-1260	5100	U F1 F2	5100	1800	ug/Kg	☼	09/30/16 10:47	10/04/16 11:52	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*153*	*X*	*14 - 128*	*09/30/16 10:47*	*10/04/16 11:52*	*50*
DCB Decachlorobiphenyl	*112*		*10 - 132*	*09/30/16 10:47*	*10/04/16 11:52*	*50*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70108-1

General Chemistry

Client Sample ID: C-7878-092716-SSH-K16-1
Date Collected: 09/27/16 14:10
Date Received: 09/28/16 09:20

Lab Sample ID: 240-70108-1
Matrix: Solid
Percent Solids: 97.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97.6		0.1	0.1	%			09/30/16 12:42	1
Percent Moisture	2.4		0.1	0.1	%			09/30/16 12:42	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70108-1

General Chemistry

Client Sample ID: C-7878-092716-SSH-K16-2
Date Collected: 09/27/16 14:20
Date Received: 09/28/16 09:20

Lab Sample ID: 240-70108-2
Matrix: Solid
Percent Solids: 96.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96.1		0.1	0.1	%			09/30/16 12:42	1
Percent Moisture	3.9		0.1	0.1	%			09/30/16 12:42	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70108-1

General Chemistry

Client Sample ID: C-7878-092716-SSH-K16-3
Date Collected: 09/27/16 14:30
Date Received: 09/28/16 09:20

Lab Sample ID: 240-70108-3
Matrix: Solid
Percent Solids: 95.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	95.7		0.1	0.1	%			09/30/16 12:42	1
Percent Moisture	4.3		0.1	0.1	%			09/30/16 12:42	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70108-1

General Chemistry

Client Sample ID: C-7878-092716-SSH-K16-4
Date Collected: 09/27/16 14:40
Date Received: 09/28/16 09:20

Lab Sample ID: 240-70108-4
Matrix: Solid
Percent Solids: 95.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	95.8		0.1	0.1	%			09/30/16 12:42	1
Percent Moisture	4.2		0.1	0.1	%			09/30/16 12:42	1

QC Association Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70108-1

GC Semi VOA

Prep Batch: 249203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-70108-1	C-7878-092716-SSH-K16-1	Total/NA	Solid	3540C	
240-70108-2	C-7878-092716-SSH-K16-2	Total/NA	Solid	3540C	
240-70108-3	C-7878-092716-SSH-K16-3	Total/NA	Solid	3540C	
240-70108-4	C-7878-092716-SSH-K16-4	Total/NA	Solid	3540C	
MB 240-249203/17-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-249203/18-A	Lab Control Sample	Total/NA	Solid	3540C	
240-70108-4 MS	C-7878-092716-SSH-K16-4	Total/NA	Solid	3540C	
240-70108-4 MSD	C-7878-092716-SSH-K16-4	Total/NA	Solid	3540C	

Analysis Batch: 249606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-70108-1	C-7878-092716-SSH-K16-1	Total/NA	Solid	8082	249203
240-70108-2	C-7878-092716-SSH-K16-2	Total/NA	Solid	8082	249203
240-70108-3	C-7878-092716-SSH-K16-3	Total/NA	Solid	8082	249203
240-70108-4	C-7878-092716-SSH-K16-4	Total/NA	Solid	8082	249203
MB 240-249203/17-A	Method Blank	Total/NA	Solid	8082	249203
LCS 240-249203/18-A	Lab Control Sample	Total/NA	Solid	8082	249203
240-70108-4 MS	C-7878-092716-SSH-K16-4	Total/NA	Solid	8082	249203
240-70108-4 MSD	C-7878-092716-SSH-K16-4	Total/NA	Solid	8082	249203

General Chemistry

Analysis Batch: 249246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-70108-1	C-7878-092716-SSH-K16-1	Total/NA	Solid	Moisture	
240-70108-2	C-7878-092716-SSH-K16-2	Total/NA	Solid	Moisture	
240-70108-3	C-7878-092716-SSH-K16-3	Total/NA	Solid	Moisture	
240-70108-4	C-7878-092716-SSH-K16-4	Total/NA	Solid	Moisture	
240-70108-3 DU	C-7878-092716-SSH-K16-3	Total/NA	Solid	Moisture	

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-249203/17-A
Matrix: Solid
Analysis Batch: 249606

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 249203

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	100	U	100	48	ug/Kg		09/30/16 10:47	10/04/16 12:49	1
Aroclor-1221	100	U	100	46	ug/Kg		09/30/16 10:47	10/04/16 12:49	1
Aroclor-1232	100	U	100	32	ug/Kg		09/30/16 10:47	10/04/16 12:49	1
Aroclor-1242	100	U	100	40	ug/Kg		09/30/16 10:47	10/04/16 12:49	1
Aroclor-1248	100	U	100	34	ug/Kg		09/30/16 10:47	10/04/16 12:49	1
Aroclor-1254	100	U	100	28	ug/Kg		09/30/16 10:47	10/04/16 12:49	1
Aroclor-1260	100	U	100	36	ug/Kg		09/30/16 10:47	10/04/16 12:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*91*		*14 - 128*	*09/30/16 10:47*	*10/04/16 12:49*	*1*
DCB Decachlorobiphenyl	*95*		*10 - 132*	*09/30/16 10:47*	*10/04/16 12:49*	*1*

Lab Sample ID: LCS 240-249203/18-A
Matrix: Solid
Analysis Batch: 249606

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 249203

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor-1016			2000	1590		ug/Kg		80	47 - 120		
Aroclor-1260			2000	1630		ug/Kg		82	46 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*80*		*14 - 128*
DCB Decachlorobiphenyl	*62*		*10 - 132*

Lab Sample ID: 240-70108-4 MS
Matrix: Solid
Analysis Batch: 249606

Client Sample ID: C-7878-092716-SSH-K16-4
Prep Type: Total/NA
Prep Batch: 249203

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor-1016	5100	U	2010	5000	U	ug/Kg	☼	NC	31 - 120		
Aroclor-1260	5100	U F1 F2	2010	29900	F1	ug/Kg	☼	1490	21 - 122		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*163*	*X*	*14 - 128*
DCB Decachlorobiphenyl	*126*		*10 - 132*

Lab Sample ID: 240-70108-4 MSD
Matrix: Solid
Analysis Batch: 249606

Client Sample ID: C-7878-092716-SSH-K16-4
Prep Type: Total/NA
Prep Batch: 249203

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor-1016	5100	U	2020	5000	U	ug/Kg	☼	NC	31 - 120	NC	30
Aroclor-1260	5100	U F1 F2	2020	19300	F1 F2	ug/Kg	☼	955	21 - 122	43	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*211*	*X*	*14 - 128*
DCB Decachlorobiphenyl	*100*		*10 - 132*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70108-1

Method: Moisture - Percent Moisture

Lab Sample ID: 240-70108-3 DU
Matrix: Solid
Analysis Batch: 249246

Client Sample ID: C-7878-092716-SSH-K16-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Solids	95.7			95.9		%				0.2	20
Percent Moisture	4.3			4.1		%				5	20

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70108-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (14-128)	DCB1 (10-132)
240-70108-1	C-7878-092716-SSH-K16-1	176 X	119
240-70108-2	C-7878-092716-SSH-K16-2	127	96
240-70108-3	C-7878-092716-SSH-K16-3	117	96
240-70108-4	C-7878-092716-SSH-K16-4	153 X	112
240-70108-4 MS	C-7878-092716-SSH-K16-4	163 X	126
240-70108-4 MSD	C-7878-092716-SSH-K16-4	211 X	100
LCS 240-249203/18-A	Lab Control Sample	80	62
MB 240-249203/17-A	Method Blank	91	95

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70108-1

Client Sample ID: C-7878-092716-SSH-K16-1
Lab Sample ID: 240-70108-1
Date Collected: 09/27/16 14:10
Matrix: Solid
Date Received: 09/28/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	249246	09/30/16 12:42	JMB	TAL CAN

Client Sample ID: C-7878-092716-SSH-K16-1
Lab Sample ID: 240-70108-1
Date Collected: 09/27/16 14:10
Matrix: Solid
Date Received: 09/28/16 09:20
Percent Solids: 97.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			249203	09/30/16 10:47	DT	TAL CAN
Total/NA	Analysis	8082		100	249606	10/04/16 10:54	CSC	TAL CAN

Client Sample ID: C-7878-092716-SSH-K16-2
Lab Sample ID: 240-70108-2
Date Collected: 09/27/16 14:20
Matrix: Solid
Date Received: 09/28/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	249246	09/30/16 12:42	JMB	TAL CAN

Client Sample ID: C-7878-092716-SSH-K16-2
Lab Sample ID: 240-70108-2
Date Collected: 09/27/16 14:20
Matrix: Solid
Date Received: 09/28/16 09:20
Percent Solids: 96.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			249203	09/30/16 10:47	DT	TAL CAN
Total/NA	Analysis	8082		10	249606	10/04/16 11:13	CSC	TAL CAN

Client Sample ID: C-7878-092716-SSH-K16-3
Lab Sample ID: 240-70108-3
Date Collected: 09/27/16 14:30
Matrix: Solid
Date Received: 09/28/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	249246	09/30/16 12:42	JMB	TAL CAN

Client Sample ID: C-7878-092716-SSH-K16-3
Lab Sample ID: 240-70108-3
Date Collected: 09/27/16 14:30
Matrix: Solid
Date Received: 09/28/16 09:20
Percent Solids: 95.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			249203	09/30/16 10:47	DT	TAL CAN
Total/NA	Analysis	8082		10	249606	10/04/16 11:33	CSC	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70108-1

Client Sample ID: C-7878-092716-SSH-K16-4 — **Lab Sample ID: 240-70108-4**
Date Collected: 09/27/16 14:40 — **Matrix: Solid**
Date Received: 09/28/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	249246	09/30/16 12:42	JMB	TAL CAN

Client Sample ID: C-7878-092716-SSH-K16-4 — **Lab Sample ID: 240-70108-4**
Date Collected: 09/27/16 14:40 — **Matrix: Solid**
Date Received: 09/28/16 09:20 — **Percent Solids: 95.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			249203	09/30/16 10:47	DT	TAL CAN
Total/NA	Analysis	8082		50	249606	10/04/16 11:52	CSC	TAL CAN

Laboratory References:

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

Certification Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70108-1

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 (WW)	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	09-14-16 *
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 Michigan
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Chain of Custody Record

163421

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other:

Client Contact	Project Manager: M. Tomko	Site Contact: SE Pardys	Date: 9/27/16	COC No: 163421 163420
Company Name: GHD	Tel/Fax: 519 884 0510	Lab Contact: D. Heckley	Carrier: FedEx	2 of 2 COCs
Address:	Analysis Turnaround Time			Sampler: S. Hoeneveld
City/State/Zip:	☒ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone:	TAT if different from Below 5 days			Walk-in Client:
Fax:	☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day			Lab Sampling:
Project Name: RawTrust SMI				Job / SDG No.:
Site: SSOW 7878-T01-012				
P O #				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	PCBs	Sample Specific Notes:
C-7878-092716-SSH-MI6-1	9/27/16	1410	G	C	1	N	N	X	
" " -MI6-2	"	1420	G	C	1	N	N	X	
" " -MI6-3	"	1430	G	C	1	N	N	X	
C-7878-092716-SSH-MI6-4		1440	G	C	1	N	N	X	
SSH									

240-70108 Chain of Custody

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.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: TAT - 5 days

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: 788595 | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ | Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	GHD	9/27/16 1700	[signature]	TANC	9/28/16 9:20
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

TestAmerica Canton Sample Receipt Form/Narrative **Login # :** 70108
Canton Facility

Client CHD Site Name 9/28/16 Cooler unpacked by:

Cooler Received on 9/28/16 Opened on 9/28/16

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

TestAmerica Cooler # Foam Box Client Cooler Box Other

Packing material used: Bubble Wrap Foam Plastic Bag None Other

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form
   IR GUN# IR-8 (CF +0.4 °C) Observed Cooler Temp. 2.4 °C Corrected Cooler Temp. 2.8 °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 No
   -Were custody seals on the outside of the cooler(s) signed & dated? Yes No NA
   -Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels be reconciled with the COC? Yes No
9. Were correct bottle(s) used for the test(s) indicated? Yes No
10. Sufficient quantity received to perform indicated analyses? Yes No
11. Are these work share samples? Yes No
    If yes, Questions 11-15 have been checked at the originating laboratory.
11. Were sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# **HC574756**
12. Were VOAs on the COC? Yes No
13. Were air bubbles >6 mm in any VOA vials? Yes No NA
14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # ____ Yes No
15. Was a LL Hg or Me Hg trip blank present? ____ Yes No

Contacted PM ____ Date ____ by ____ via Verbal Voice Mail Other

Concerning ____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by:

15. SAMPLE CONDITION

Sample(s) ____ were received after the recommended holding time had expired.
Sample(s) ____ were received in a broken container.
Sample(s) ____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) ____ were further preserved in the laboratory.
Time preserved: ____ Preservative(s) added/Lot number(s): ____

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: 240-70105-2
Client Project/Site: 7878, RACER SMI

For:
GHD Services Inc.
14496 Sheldon Road, Suite 200
Plymouth, Michigan 48170

Attn: Rawa Fleisher

Denise D Heckler

Authorized for release by:
10/10/2016 12:22:34 PM

Denise Heckler, Project Manager II
(330)966-9477
denise.heckler@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: 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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Case Narrative

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70105-2

Job ID: 240-70105-2

Laboratory: TestAmerica Canton

Narrative

Job Narrative
240-70105-2

Comments
Select samples were taken off hold by GHD on October 5, 2016.

Receipt
The samples were received on 9/28/2016 9:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8º C.

GC Semi VOA
Method(s) 8082: The following samples 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: C-7878-092716-SSH-K4-6 (240-70105-2), C-7878-092716-SSH-K4-7 (240-70105-3), C-7878-092716-SSH-K4-8 (240-70105-4), C-7878-092716-SSH-K5-6 (240-70105-6), C-7878-092716-SSH-K5-7 (240-70105-7), C-7878-092716-SSH-K5-8 (240-70105-8), C-7878-092716-SSH-K16-5 (240-70105-9), C-7878-092716-SSH-K16-6 (240-70105-10) and C-7878-092716-SSH-K16-8 (240-70105-12). Due to the poor match with the Aroclor standards, there is increased qualitative and quantitative uncertainty associated with this result.

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: C-7878-092716-SSH-K16-5 (240-70105-9). Due to the poor match with the Aroclor standards, 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.

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

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

Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70105-2

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
F2	MS/MSD RPD exceeds control limits
X	Surrogate is outside control limits

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
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)

Sample Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70105-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-70105-2	C-7878-092716-SSH-K4-6	Solid	09/27/16 12:15	09/28/16 09:20
240-70105-3	C-7878-092716-SSH-K4-7	Solid	09/27/16 12:25	09/28/16 09:20
240-70105-4	C-7878-092716-SSH-K4-8	Solid	09/27/16 12:35	09/28/16 09:20
240-70105-6	C-7878-092716-SSH-K5-6	Solid	09/27/16 13:35	09/28/16 09:20
240-70105-7	C-7878-092716-SSH-K5-7	Solid	09/27/16 13:45	09/28/16 09:20
240-70105-8	C-7878-092716-SSH-K5-8	Solid	09/27/16 13:55	09/28/16 09:20
240-70105-9	C-7878-092716-SSH-K16-5	Solid	09/27/16 14:45	09/28/16 09:20
240-70105-10	C-7878-092716-SSH-K16-6	Solid	09/27/16 15:00	09/28/16 09:20
240-70105-12	C-7878-092716-SSH-K16-8	Solid	09/27/16 15:20	09/28/16 09:20

Detection Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70105-2

Client Sample ID: C-7878-092716-SSH-K4-6 — Lab Sample ID: 240-70105-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	280000		53000	15000	ug/Kg	500	☼	8082	Total/NA

Client Sample ID: C-7878-092716-SSH-K4-7 — Lab Sample ID: 240-70105-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	66000		10000	2900	ug/Kg	100	☼	8082	Total/NA

Client Sample ID: C-7878-092716-SSH-K4-8 — Lab Sample ID: 240-70105-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	1700000		100000	28000	ug/Kg	1000	☼	8082	Total/NA

Client Sample ID: C-7878-092716-SSH-K5-6 — Lab Sample ID: 240-70105-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	2700000		520000	150000	ug/Kg	5000	☼	8082	Total/NA

Client Sample ID: C-7878-092716-SSH-K5-7 — Lab Sample ID: 240-70105-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	150000		10000	2900	ug/Kg	100	☼	8082	Total/NA

Client Sample ID: C-7878-092716-SSH-K5-8 — Lab Sample ID: 240-70105-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	2200		520	150	ug/Kg	5	☼	8082	Total/NA

Client Sample ID: C-7878-092716-SSH-K16-5 — Lab Sample ID: 240-70105-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	1900		510	140	ug/Kg	5	☼	8082	Total/NA

Client Sample ID: C-7878-092716-SSH-K16-6 — Lab Sample ID: 240-70105-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	14000		1000	280	ug/Kg	10	☼	8082	Total/NA

Client Sample ID: C-7878-092716-SSH-K16-8 — Lab Sample ID: 240-70105-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	5900		1100	300	ug/Kg	10	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70105-2

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
Moisture	Percent Moisture	EPA	TAL CAN

Protocol References:

EPA = US Environmental Protection Agency

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

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70105-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-092716-SSH-K4-6
Date Collected: 09/27/16 12:15
Date Received: 09/28/16 09:20

Lab Sample ID: 240-70105-2
Matrix: Solid
Percent Solids: 98.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	53000	U	53000	25000	ug/Kg	☼	10/06/16 11:27	10/08/16 09:54	500
Aroclor-1221	53000	U	53000	24000	ug/Kg	☼	10/06/16 11:27	10/08/16 09:54	500
Aroclor-1232	53000	U	53000	17000	ug/Kg	☼	10/06/16 11:27	10/08/16 09:54	500
Aroclor-1242	53000	U	53000	21000	ug/Kg	☼	10/06/16 11:27	10/08/16 09:54	500
Aroclor-1248	53000	U	53000	18000	ug/Kg	☼	10/06/16 11:27	10/08/16 09:54	500
Aroclor-1254	**280000**		53000	15000	ug/Kg	☼	10/06/16 11:27	10/08/16 09:54	500
Aroclor-1260	53000	U F2	53000	19000	ug/Kg	☼	10/06/16 11:27	10/08/16 09:54	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*214*	*X*	*14 - 128*	*10/06/16 11:27*	*10/08/16 09:54*	*500*
DCB Decachlorobiphenyl	*182*	*X*	*10 - 132*	*10/06/16 11:27*	*10/08/16 09:54*	*500*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70105-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-092716-SSH-K4-7
Date Collected: 09/27/16 12:25
Date Received: 09/28/16 09:20

Lab Sample ID: 240-70105-3
Matrix: Solid
Percent Solids: 97.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	10000	U	10000	5000	ug/Kg	☼	10/06/16 11:27	10/08/16 10:49	100
Aroclor-1221	10000	U	10000	4800	ug/Kg	☼	10/06/16 11:27	10/08/16 10:49	100
Aroclor-1232	10000	U	10000	3400	ug/Kg	☼	10/06/16 11:27	10/08/16 10:49	100
Aroclor-1242	10000	U	10000	4200	ug/Kg	☼	10/06/16 11:27	10/08/16 10:49	100
Aroclor-1248	10000	U	10000	3600	ug/Kg	☼	10/06/16 11:27	10/08/16 10:49	100
Aroclor-1254	**66000**		10000	2900	ug/Kg	☼	10/06/16 11:27	10/08/16 10:49	100
Aroclor-1260	10000	U	10000	3800	ug/Kg	☼	10/06/16 11:27	10/08/16 10:49	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*101*		*14 - 128*	*10/06/16 11:27*	*10/08/16 10:49*	*100*
DCB Decachlorobiphenyl	*132*		*10 - 132*	*10/06/16 11:27*	*10/08/16 10:49*	*100*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70105-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-092716-SSH-K4-8
Date Collected: 09/27/16 12:35
Date Received: 09/28/16 09:20

Lab Sample ID: 240-70105-4
Matrix: Solid
Percent Solids: 96.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	100000	U	100000	48000	ug/Kg	☼	10/06/16 11:27	10/08/16 11:07	1000
Aroclor-1221	100000	U	100000	46000	ug/Kg	☼	10/06/16 11:27	10/08/16 11:07	1000
Aroclor-1232	100000	U	100000	32000	ug/Kg	☼	10/06/16 11:27	10/08/16 11:07	1000
Aroclor-1242	100000	U	100000	40000	ug/Kg	☼	10/06/16 11:27	10/08/16 11:07	1000
Aroclor-1248	100000	U	100000	34000	ug/Kg	☼	10/06/16 11:27	10/08/16 11:07	1000
Aroclor-1254	**1700000**		100000	28000	ug/Kg	☼	10/06/16 11:27	10/08/16 11:07	1000
Aroclor-1260	100000	U	100000	36000	ug/Kg	☼	10/06/16 11:27	10/08/16 11:07	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*X*	*14 - 128*	*10/06/16 11:27*	*10/08/16 11:07*	*1000*
DCB Decachlorobiphenyl	*125*		*10 - 132*	*10/06/16 11:27*	*10/08/16 11:07*	*1000*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70105-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-092716-SSH-K5-6
Date Collected: 09/27/16 13:35
Date Received: 09/28/16 09:20

Lab Sample ID: 240-70105-6
Matrix: Solid
Percent Solids: 97.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	520000	U	520000	250000	ug/Kg	☼	10/06/16 11:27	10/08/16 11:26	5000
Aroclor-1221	520000	U	520000	240000	ug/Kg	☼	10/06/16 11:27	10/08/16 11:26	5000
Aroclor-1232	520000	U	520000	170000	ug/Kg	☼	10/06/16 11:27	10/08/16 11:26	5000
Aroclor-1242	520000	U	520000	210000	ug/Kg	☼	10/06/16 11:27	10/08/16 11:26	5000
Aroclor-1248	520000	U	520000	180000	ug/Kg	☼	10/06/16 11:27	10/08/16 11:26	5000
Aroclor-1254	**2700000**		520000	150000	ug/Kg	☼	10/06/16 11:27	10/08/16 11:26	5000
Aroclor-1260	520000	U	520000	190000	ug/Kg	☼	10/06/16 11:27	10/08/16 11:26	5000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*X*	*14 - 128*	*10/06/16 11:27*	*10/08/16 11:26*	*5000*
DCB Decachlorobiphenyl	*907*	*X*	*10 - 132*	*10/06/16 11:27*	*10/08/16 11:26*	*5000*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70105-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-092716-SSH-K5-7
Date Collected: 09/27/16 13:45
Date Received: 09/28/16 09:20

Lab Sample ID: 240-70105-7
Matrix: Solid
Percent Solids: 97.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	10000	U	10000	4900	ug/Kg	☼	10/06/16 11:27	10/08/16 11:44	100
Aroclor-1221	10000	U	10000	4700	ug/Kg	☼	10/06/16 11:27	10/08/16 11:44	100
Aroclor-1232	10000	U	10000	3300	ug/Kg	☼	10/06/16 11:27	10/08/16 11:44	100
Aroclor-1242	10000	U	10000	4100	ug/Kg	☼	10/06/16 11:27	10/08/16 11:44	100
Aroclor-1248	10000	U	10000	3500	ug/Kg	☼	10/06/16 11:27	10/08/16 11:44	100
Aroclor-1254	**150000**		10000	2900	ug/Kg	☼	10/06/16 11:27	10/08/16 11:44	100
Aroclor-1260	10000	U	10000	3700	ug/Kg	☼	10/06/16 11:27	10/08/16 11:44	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*147*	*X*	*14 - 128*	*10/06/16 11:27*	*10/08/16 11:44*	*100*
DCB Decachlorobiphenyl	*132*		*10 - 132*	*10/06/16 11:27*	*10/08/16 11:44*	*100*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70105-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-092716-SSH-K5-8
Date Collected: 09/27/16 13:55
Date Received: 09/28/16 09:20

Lab Sample ID: 240-70105-8
Matrix: Solid
Percent Solids: 94.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	520	U	520	250	ug/Kg	☼	10/06/16 11:27	10/08/16 12:02	5
Aroclor-1221	520	U	520	240	ug/Kg	☼	10/06/16 11:27	10/08/16 12:02	5
Aroclor-1232	520	U	520	170	ug/Kg	☼	10/06/16 11:27	10/08/16 12:02	5
Aroclor-1242	520	U	520	210	ug/Kg	☼	10/06/16 11:27	10/08/16 12:02	5
Aroclor-1248	520	U	520	180	ug/Kg	☼	10/06/16 11:27	10/08/16 12:02	5
Aroclor-1254	**2200**		520	150	ug/Kg	☼	10/06/16 11:27	10/08/16 12:02	5
Aroclor-1260	520	U	520	190	ug/Kg	☼	10/06/16 11:27	10/08/16 12:02	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*76*		*14 - 128*	*10/06/16 11:27*	*10/08/16 12:02*	*5*
DCB Decachlorobiphenyl	*97*		*10 - 132*	*10/06/16 11:27*	*10/08/16 12:02*	*5*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70105-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-092716-SSH-K16-5
Date Collected: 09/27/16 14:45
Date Received: 09/28/16 09:20

Lab Sample ID: 240-70105-9
Matrix: Solid
Percent Solids: 96.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	510	U	510	240	ug/Kg	☼	10/06/16 11:27	10/08/16 12:20	5
Aroclor-1221	510	U	510	230	ug/Kg	☼	10/06/16 11:27	10/08/16 12:20	5
Aroclor-1232	510	U	510	160	ug/Kg	☼	10/06/16 11:27	10/08/16 12:20	5
Aroclor-1242	510	U	510	200	ug/Kg	☼	10/06/16 11:27	10/08/16 12:20	5
Aroclor-1248	510	U	510	170	ug/Kg	☼	10/06/16 11:27	10/08/16 12:20	5
Aroclor-1254	**1900**		510	140	ug/Kg	☼	10/06/16 11:27	10/08/16 12:20	5
Aroclor-1260	510	U	510	180	ug/Kg	☼	10/06/16 11:27	10/08/16 12:20	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*69*		*14 - 128*	*10/06/16 11:27*	*10/08/16 12:20*	*5*
DCB Decachlorobiphenyl	*96*		*10 - 132*	*10/06/16 11:27*	*10/08/16 12:20*	*5*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70105-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-092716-SSH-K16-6
Date Collected: 09/27/16 15:00
Date Received: 09/28/16 09:20

Lab Sample ID: 240-70105-10
Matrix: Solid
Percent Solids: 95.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	1000	U	1000	490	ug/Kg	☼	10/06/16 11:27	10/08/16 12:39	10
Aroclor-1221	1000	U	1000	470	ug/Kg	☼	10/06/16 11:27	10/08/16 12:39	10
Aroclor-1232	1000	U	1000	320	ug/Kg	☼	10/06/16 11:27	10/08/16 12:39	10
Aroclor-1242	1000	U	1000	400	ug/Kg	☼	10/06/16 11:27	10/08/16 12:39	10
Aroclor-1248	1000	U	1000	340	ug/Kg	☼	10/06/16 11:27	10/08/16 12:39	10
Aroclor-1254	**14000**		1000	280	ug/Kg	☼	10/06/16 11:27	10/08/16 12:39	10
Aroclor-1260	1000	U	1000	360	ug/Kg	☼	10/06/16 11:27	10/08/16 12:39	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*71*		*14 - 128*	*10/06/16 11:27*	*10/08/16 12:39*	*10*
DCB Decachlorobiphenyl	*83*		*10 - 132*	*10/06/16 11:27*	*10/08/16 12:39*	*10*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70105-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-092716-SSH-K16-8
Date Collected: 09/27/16 15:20
Date Received: 09/28/16 09:20

Lab Sample ID: 240-70105-12
Matrix: Solid
Percent Solids: 95.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	1100	U	1100	520	ug/Kg	☼	10/06/16 11:27	10/08/16 12:57	10
Aroclor-1221	1100	U	1100	500	ug/Kg	☼	10/06/16 11:27	10/08/16 12:57	10
Aroclor-1232	1100	U	1100	350	ug/Kg	☼	10/06/16 11:27	10/08/16 12:57	10
Aroclor-1242	1100	U	1100	430	ug/Kg	☼	10/06/16 11:27	10/08/16 12:57	10
Aroclor-1248	1100	U	1100	370	ug/Kg	☼	10/06/16 11:27	10/08/16 12:57	10
Aroclor-1254	**5900**		1100	300	ug/Kg	☼	10/06/16 11:27	10/08/16 12:57	10
Aroclor-1260	1100	U	1100	390	ug/Kg	☼	10/06/16 11:27	10/08/16 12:57	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*85*		*14 - 128*	*10/06/16 11:27*	*10/08/16 12:57*	*10*
DCB Decachlorobiphenyl	*81*		*10 - 132*	*10/06/16 11:27*	*10/08/16 12:57*	*10*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70105-2

General Chemistry

Client Sample ID: C-7878-092716-SSH-K4-6
Date Collected: 09/27/16 12:15
Date Received: 09/28/16 09:20

Lab Sample ID: 240-70105-2
Matrix: Solid
Percent Solids: 98.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	98.2		0.1	0.1	%			09/30/16 12:42	1
Percent Moisture	1.8		0.1	0.1	%			09/30/16 12:42	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70105-2

General Chemistry

Client Sample ID: C-7878-092716-SSH-K4-7
Date Collected: 09/27/16 12:25
Date Received: 09/28/16 09:20

Lab Sample ID: 240-70105-3
Matrix: Solid
Percent Solids: 97.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97.2		0.1	0.1	%			09/30/16 12:42	1
Percent Moisture	2.8		0.1	0.1	%			09/30/16 12:42	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70105-2

General Chemistry

Client Sample ID: C-7878-092716-SSH-K4-8
Date Collected: 09/27/16 12:35
Date Received: 09/28/16 09:20

Lab Sample ID: 240-70105-4
Matrix: Solid
Percent Solids: 96.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96.8		0.1	0.1	%			09/30/16 12:42	1
Percent Moisture	3.2		0.1	0.1	%			09/30/16 12:42	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70105-2

General Chemistry

Client Sample ID: C-7878-092716-SSH-K5-6
Date Collected: 09/27/16 13:35
Date Received: 09/28/16 09:20

Lab Sample ID: 240-70105-6
Matrix: Solid
Percent Solids: 97.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97.6		0.1	0.1	%			09/30/16 12:42	1
Percent Moisture	2.4		0.1	0.1	%			09/30/16 12:42	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70105-2

General Chemistry

Client Sample ID: C-7878-092716-SSH-K5-7
Date Collected: 09/27/16 13:45
Date Received: 09/28/16 09:20

Lab Sample ID: 240-70105-7
Matrix: Solid
Percent Solids: 97.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97.6		0.1	0.1	%			09/30/16 12:42	1
Percent Moisture	2.4		0.1	0.1	%			09/30/16 12:42	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70105-2

General Chemistry

Client Sample ID: C-7878-092716-SSH-K5-8
Date Collected: 09/27/16 13:55
Date Received: 09/28/16 09:20

Lab Sample ID: 240-70105-8
Matrix: Solid
Percent Solids: 94.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	94.4		0.1	0.1	%			09/30/16 12:42	1
Percent Moisture	5.6		0.1	0.1	%			09/30/16 12:42	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70105-2

General Chemistry

Client Sample ID: C-7878-092716-SSH-K16-5
Date Collected: 09/27/16 14:45
Date Received: 09/28/16 09:20

Lab Sample ID: 240-70105-9
Matrix: Solid
Percent Solids: 96.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96.7		0.1	0.1	%			09/30/16 12:42	1
Percent Moisture	3.3		0.1	0.1	%			09/30/16 12:42	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70105-2

General Chemistry

Client Sample ID: C-7878-092716-SSH-K16-6
Date Collected: 09/27/16 15:00
Date Received: 09/28/16 09:20

Lab Sample ID: 240-70105-10
Matrix: Solid
Percent Solids: 95.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	95.7		0.1	0.1	%			09/30/16 12:42	1
Percent Moisture	4.3		0.1	0.1	%			09/30/16 12:42	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70105-2

General Chemistry

Client Sample ID: C-7878-092716-SSH-K16-8
Date Collected: 09/27/16 15:20
Date Received: 09/28/16 09:20

Lab Sample ID: 240-70105-12
Matrix: Solid
Percent Solids: 95.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	95.5		0.1	0.1	%			09/30/16 13:52	1
Percent Moisture	4.5		0.1	0.1	%			09/30/16 13:52	1

GC Semi VOA

Prep Batch: 250158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-70105-2	C-7878-092716-SSH-K4-6	Total/NA	Solid	3540C	
240-70105-3	C-7878-092716-SSH-K4-7	Total/NA	Solid	3540C	
240-70105-4	C-7878-092716-SSH-K4-8	Total/NA	Solid	3540C	
240-70105-6	C-7878-092716-SSH-K5-6	Total/NA	Solid	3540C	
240-70105-7	C-7878-092716-SSH-K5-7	Total/NA	Solid	3540C	
240-70105-8	C-7878-092716-SSH-K5-8	Total/NA	Solid	3540C	
240-70105-9	C-7878-092716-SSH-K16-5	Total/NA	Solid	3540C	
240-70105-10	C-7878-092716-SSH-K16-6	Total/NA	Solid	3540C	
240-70105-12	C-7878-092716-SSH-K16-8	Total/NA	Solid	3540C	
MB 240-250158/12-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-250158/13-A	Lab Control Sample	Total/NA	Solid	3540C	
240-70105-2 MS	C-7878-092716-SSH-K4-6	Total/NA	Solid	3540C	
240-70105-2 MSD	C-7878-092716-SSH-K4-6	Total/NA	Solid	3540C	

Analysis Batch: 250437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-70105-2	C-7878-092716-SSH-K4-6	Total/NA	Solid	8082	250158
240-70105-3	C-7878-092716-SSH-K4-7	Total/NA	Solid	8082	250158
240-70105-4	C-7878-092716-SSH-K4-8	Total/NA	Solid	8082	250158
240-70105-6	C-7878-092716-SSH-K5-6	Total/NA	Solid	8082	250158
240-70105-7	C-7878-092716-SSH-K5-7	Total/NA	Solid	8082	250158
240-70105-8	C-7878-092716-SSH-K5-8	Total/NA	Solid	8082	250158
240-70105-9	C-7878-092716-SSH-K16-5	Total/NA	Solid	8082	250158
240-70105-10	C-7878-092716-SSH-K16-6	Total/NA	Solid	8082	250158
240-70105-12	C-7878-092716-SSH-K16-8	Total/NA	Solid	8082	250158
MB 240-250158/12-A	Method Blank	Total/NA	Solid	8082	250158
LCS 240-250158/13-A	Lab Control Sample	Total/NA	Solid	8082	250158
240-70105-2 MS	C-7878-092716-SSH-K4-6	Total/NA	Solid	8082	250158
240-70105-2 MSD	C-7878-092716-SSH-K4-6	Total/NA	Solid	8082	250158

General Chemistry

Analysis Batch: 249246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-70105-2	C-7878-092716-SSH-K4-6	Total/NA	Solid	Moisture	
240-70105-3	C-7878-092716-SSH-K4-7	Total/NA	Solid	Moisture	
240-70105-4	C-7878-092716-SSH-K4-8	Total/NA	Solid	Moisture	
240-70105-6	C-7878-092716-SSH-K5-6	Total/NA	Solid	Moisture	
240-70105-7	C-7878-092716-SSH-K5-7	Total/NA	Solid	Moisture	
240-70105-8	C-7878-092716-SSH-K5-8	Total/NA	Solid	Moisture	
240-70105-9	C-7878-092716-SSH-K16-5	Total/NA	Solid	Moisture	
240-70105-10	C-7878-092716-SSH-K16-6	Total/NA	Solid	Moisture	
240-70105-12	C-7878-092716-SSH-K16-8	Total/NA	Solid	Moisture	
240-70105-3 DU	C-7878-092716-SSH-K4-7	Total/NA	Solid	Moisture	
240-70105-12 DU	C-7878-092716-SSH-K16-8	Total/NA	Solid	Moisture	

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-250158/12-A
Matrix: Solid
Analysis Batch: 250437

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 250158

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	100	U	100	48	ug/Kg		10/06/16 11:27	10/08/16 13:15	1
Aroclor-1221	100	U	100	46	ug/Kg		10/06/16 11:27	10/08/16 13:15	1
Aroclor-1232	100	U	100	32	ug/Kg		10/06/16 11:27	10/08/16 13:15	1
Aroclor-1242	100	U	100	40	ug/Kg		10/06/16 11:27	10/08/16 13:15	1
Aroclor-1248	100	U	100	34	ug/Kg		10/06/16 11:27	10/08/16 13:15	1
Aroclor-1254	100	U	100	28	ug/Kg		10/06/16 11:27	10/08/16 13:15	1
Aroclor-1260	100	U	100	36	ug/Kg		10/06/16 11:27	10/08/16 13:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*		*14 - 128*	*10/06/16 11:27*	*10/08/16 13:15*	*1*
DCB Decachlorobiphenyl	*71*		*10 - 132*	*10/06/16 11:27*	*10/08/16 13:15*	*1*

Lab Sample ID: LCS 240-250158/13-A
Matrix: Solid
Analysis Batch: 250437

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 250158

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor-1016			2000	1430		ug/Kg		72	47 - 120		
Aroclor-1260			2000	1560		ug/Kg		78	46 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*74*		*14 - 128*
DCB Decachlorobiphenyl	*78*		*10 - 132*

Lab Sample ID: 240-70105-2 MS
Matrix: Solid
Analysis Batch: 250437

Client Sample ID: C-7878-092716-SSH-K4-6
Prep Type: Total/NA
Prep Batch: 250158

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor-1016	53000	U	2000	50000	U	ug/Kg	☼	NC	31 - 120		
Aroclor-1260	53000	U F2	2000	239000		ug/Kg	☼	NC	21 - 122		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*231*	*X*	*14 - 128*
DCB Decachlorobiphenyl	*173*	*X*	*10 - 132*

Lab Sample ID: 240-70105-2 MSD
Matrix: Solid
Analysis Batch: 250437

Client Sample ID: C-7878-092716-SSH-K4-6
Prep Type: Total/NA
Prep Batch: 250158

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor-1016	53000	U	2000	50000	U	ug/Kg	☼	NC	31 - 120	NC	30
Aroclor-1260	53000	U F2	2000	141000	F2	ug/Kg	☼	NC	21 - 122	52	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*295*	*X*	*14 - 128*
DCB Decachlorobiphenyl	*212*	*X*	*10 - 132*

Method: Moisture - Percent Moisture

Lab Sample ID: 240-70105-3 DU
Matrix: Solid
Analysis Batch: 249246

Client Sample ID: C-7878-092716-SSH-K4-7
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Solids	97.2			97.3		%				0.1	20
Percent Moisture	2.8			2.7		%				5	20

Lab Sample ID: 240-70105-12 DU
Matrix: Solid
Analysis Batch: 249246

Client Sample ID: C-7878-092716-SSH-K16-8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Solids	95.5			95.8		%				0.3	20
Percent Moisture	4.5			4.2		%				7	20

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70105-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(14-128)	(10-132)
240-70105-2	C-7878-092716-SSH-K4-6	214 X	182 X
240-70105-2 MS	C-7878-092716-SSH-K4-6	231 X	173 X
240-70105-2 MSD	C-7878-092716-SSH-K4-6	295 X	212 X
240-70105-3	C-7878-092716-SSH-K4-7	101	132
240-70105-4	C-7878-092716-SSH-K4-8	0 X	125
240-70105-6	C-7878-092716-SSH-K5-6	0 X	907 X
240-70105-7	C-7878-092716-SSH-K5-7	147 X	132
240-70105-8	C-7878-092716-SSH-K5-8	76	97
240-70105-9	C-7878-092716-SSH-K16-5	69	96
240-70105-10	C-7878-092716-SSH-K16-6	71	83
240-70105-12	C-7878-092716-SSH-K16-8	85	81
LCS 240-250158/13-A	Lab Control Sample	74	78
MB 240-250158/12-A	Method Blank	68	71

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70105-2

Client Sample ID: C-7878-092716-SSH-K4-6
Lab Sample ID: 240-70105-2
Date Collected: 09/27/16 12:15
Matrix: Solid
Date Received: 09/28/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	249246	09/30/16 12:42	JMB	TAL CAN

Client Sample ID: C-7878-092716-SSH-K4-6
Lab Sample ID: 240-70105-2
Date Collected: 09/27/16 12:15
Matrix: Solid
Date Received: 09/28/16 09:20
Percent Solids: 98.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			250158	10/06/16 11:27	SDE	TAL CAN
Total/NA	Analysis	8082		500	250437	10/08/16 09:54	CSC	TAL CAN

Client Sample ID: C-7878-092716-SSH-K4-7
Lab Sample ID: 240-70105-3
Date Collected: 09/27/16 12:25
Matrix: Solid
Date Received: 09/28/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	249246	09/30/16 12:42	JMB	TAL CAN

Client Sample ID: C-7878-092716-SSH-K4-7
Lab Sample ID: 240-70105-3
Date Collected: 09/27/16 12:25
Matrix: Solid
Date Received: 09/28/16 09:20
Percent Solids: 97.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			250158	10/06/16 11:27	SDE	TAL CAN
Total/NA	Analysis	8082		100	250437	10/08/16 10:49	CSC	TAL CAN

Client Sample ID: C-7878-092716-SSH-K4-8
Lab Sample ID: 240-70105-4
Date Collected: 09/27/16 12:35
Matrix: Solid
Date Received: 09/28/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	249246	09/30/16 12:42	JMB	TAL CAN

Client Sample ID: C-7878-092716-SSH-K4-8
Lab Sample ID: 240-70105-4
Date Collected: 09/27/16 12:35
Matrix: Solid
Date Received: 09/28/16 09:20
Percent Solids: 96.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			250158	10/06/16 11:27	SDE	TAL CAN
Total/NA	Analysis	8082		1000	250437	10/08/16 11:07	CSC	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70105-2

Client Sample ID: C-7878-092716-SSH-K5-6
Lab Sample ID: 240-70105-6
Date Collected: 09/27/16 13:35
Matrix: Solid
Date Received: 09/28/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	249246	09/30/16 12:42	JMB	TAL CAN

Client Sample ID: C-7878-092716-SSH-K5-6
Lab Sample ID: 240-70105-6
Date Collected: 09/27/16 13:35
Matrix: Solid
Date Received: 09/28/16 09:20
Percent Solids: 97.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			250158	10/06/16 11:27	SDE	TAL CAN
Total/NA	Analysis	8082		5000	250437	10/08/16 11:26	CSC	TAL CAN

Client Sample ID: C-7878-092716-SSH-K5-7
Lab Sample ID: 240-70105-7
Date Collected: 09/27/16 13:45
Matrix: Solid
Date Received: 09/28/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	249246	09/30/16 12:42	JMB	TAL CAN

Client Sample ID: C-7878-092716-SSH-K5-7
Lab Sample ID: 240-70105-7
Date Collected: 09/27/16 13:45
Matrix: Solid
Date Received: 09/28/16 09:20
Percent Solids: 97.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			250158	10/06/16 11:27	SDE	TAL CAN
Total/NA	Analysis	8082		100	250437	10/08/16 11:44	CSC	TAL CAN

Client Sample ID: C-7878-092716-SSH-K5-8
Lab Sample ID: 240-70105-8
Date Collected: 09/27/16 13:55
Matrix: Solid
Date Received: 09/28/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	249246	09/30/16 12:42	JMB	TAL CAN

Client Sample ID: C-7878-092716-SSH-K5-8
Lab Sample ID: 240-70105-8
Date Collected: 09/27/16 13:55
Matrix: Solid
Date Received: 09/28/16 09:20
Percent Solids: 94.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			250158	10/06/16 11:27	SDE	TAL CAN
Total/NA	Analysis	8082		5	250437	10/08/16 12:02	CSC	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70105-2

Client Sample ID: C-7878-092716-SSH-K16-5
Lab Sample ID: 240-70105-9
Date Collected: 09/27/16 14:45
Matrix: Solid
Date Received: 09/28/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	249246	09/30/16 12:42	JMB	TAL CAN

Client Sample ID: C-7878-092716-SSH-K16-5
Lab Sample ID: 240-70105-9
Date Collected: 09/27/16 14:45
Matrix: Solid
Date Received: 09/28/16 09:20
Percent Solids: 96.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			250158	10/06/16 11:27	SDE	TAL CAN
Total/NA	Analysis	8082		5	250437	10/08/16 12:20	CSC	TAL CAN

Client Sample ID: C-7878-092716-SSH-K16-6
Lab Sample ID: 240-70105-10
Date Collected: 09/27/16 15:00
Matrix: Solid
Date Received: 09/28/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	249246	09/30/16 12:42	JMB	TAL CAN

Client Sample ID: C-7878-092716-SSH-K16-6
Lab Sample ID: 240-70105-10
Date Collected: 09/27/16 15:00
Matrix: Solid
Date Received: 09/28/16 09:20
Percent Solids: 95.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			250158	10/06/16 11:27	SDE	TAL CAN
Total/NA	Analysis	8082		10	250437	10/08/16 12:39	CSC	TAL CAN

Client Sample ID: C-7878-092716-SSH-K16-8
Lab Sample ID: 240-70105-12
Date Collected: 09/27/16 15:20
Matrix: Solid
Date Received: 09/28/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	249246	09/30/16 13:52	JMB	TAL CAN

Client Sample ID: C-7878-092716-SSH-K16-8
Lab Sample ID: 240-70105-12
Date Collected: 09/27/16 15:20
Matrix: Solid
Date Received: 09/28/16 09:20
Percent Solids: 95.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			250158	10/06/16 11:27	SDE	TAL CAN
Total/NA	Analysis	8082		10	250437	10/08/16 12:57	CSC	TAL CAN

Laboratory References:

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

Certification Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70105-2

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 (WW)	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 Michigan
10448 Citation Drive
Suite 200
Brighton, MI 48116
Phone: 810.229.2763 Fax:

2.4/C2.8

Chain of Custody Record

163422

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other:

Client Contact	Project Manager: M. Tomka	Site Contact: JE Pardys	Date: 9/27/16	COC No: 163422
Company Name: GHD	Tel/Fax: 519 884 0510	Lab Contact: A. Hecklu	Carrier: FedEx	1 of 1 COCs
Address: 14926 N. Sheldon Rd Ste 200	Analysis Turnaround Time			Sampler: S Heinemeyer
City/State/Zip: Plymouth MI 48170	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 734 453 5123	TAT if different from Below _____			Walk-in Client:
Fax:	☐ 2 weeks			
Project Name: RacTrust SMI	☐ 1 week			
Site: SSOW 7B78 - T01 - 012	☐ 2 days			
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PLBs	Specific Notes:
C-7B78-092716-SSH-MW-5	9/27/16	1200	G	C	1	N	N	X	Hold
-MW-6		1215	G	C	1	N	N	X	
-MW-7		1225	G	C	1	N	N	X	
-MW-8		1235	G	C	1	N	N	X	
-MW-5		1325	G	C	1	N	N	X	
-MW-6		1335	G	C	1	N	N	X	
-MW-7		1345	G	C	1	N	N	X	
-MW-8		1355	G	C	1	N	N	X	
-MW-5		1450	G	C	1	N	N	X	
-MW-6		1500	G	C	1	N	N	X	
-MW-7		1510	G	C	1	N	N	X	
C-7B78-092716-SSH -MW-8		1520	G	C	1	N	N	X	

240-70105 Chain of Custody

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.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: Hold per GHD

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.: 766595	Cooler Temp. (°C): Obs'd: _____	Corr'd: _____	Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Steve Heinemeyer	GHD	9/27/16 1700		TANC	9/28/16 9:20
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

10/10/2016

TestAmerica Canton Sample Receipt Form/Narrative **Login # :** 70105

Canton Facility

Client CHD Site Name 9/28/16

Cooler Received on 9/28/16 Opened on 9/28/16

Cooler unpacked by: BM

FedEx: 1st Grd (Exp) UPS FAS Stetson Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

TestAmerica Cooler # Foam Box (Client Cooler) Box Other

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form
   IR GUN# IR-8 (CF +0.4 °C) Observed Cooler Temp. 2.4 °C Corrected Cooler Temp. 2.8 °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 (No)
   -Were custody seals on the outside of the cooler(s) signed & dated? Yes No (NA)
   -Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes (No)
3. Shippers' packing slip attached to the cooler(s)? (Yes) No
4. Did custody papers accompany the sample(s)? (Yes) No
5. Were the custody papers relinquished & signed in the appropriate place? (Yes) No
6. Was/were the person(s) who collected the samples clearly identified on the COC? (Yes) No
7. Did all bottles arrive in good condition (Unbroken)? (Yes) No
8. Could all bottle labels be reconciled with the COC? (Yes) No
9. Were correct bottle(s) used for the test(s) indicated? (Yes) No
10. Sufficient quantity received to perform indicated analyses? (Yes) No
11. Are these work share samples? Yes (No)

If yes, Questions 11-15 have been checked at the originating laboratory.

11. Were sample(s) at the correct pH upon receipt? Yes No (NA) pH Strip Lot# **HC574756**
12. Were VOAs on the COC? (Yes) No
13. Were air bubbles >6 mm in any VOA vials? Yes No (NA)
14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # ____ Yes (No)
15. Was a LL Hg or Me Hg trip blank present? ____ Yes (No)

Contacted PM ____ Date ____ by ____ via Verbal Voice Mail Other

Concerning ____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

15. SAMPLE CONDITION

Sample(s) ____ were received after the recommended holding time had expired.

Sample(s) ____ were received in a broken container.

Sample(s) ____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) ____ were further preserved in the laboratory.

Time preserved: ____ Preservative(s) added/Lot number(s): ____

TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-70105-4
Client Project/Site: 7878, RACER SMI

For:
GHD Services Inc.
14496 Sheldon Road, Suite 200
Plymouth, Michigan 48170

Attn: Rawa Fleisher

Denise D Heckler

Authorized for release by:
10/25/2016 12:18:29 PM

Denise Heckler, Project Manager II
(330)966-9477
denise.heckler@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: 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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Case Narrative

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70105-4

Job ID: 240-70105-4

Laboratory: TestAmerica Canton

Narrative

Job Narrative
240-70105-4

Comments
Sample was taken off hold on October 20, 2016 at the request of GHD.

Receipt
The samples were received on 9/28/2016 9:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8º C.

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

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

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

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
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.
¤	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)

Sample Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70105-4

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-70105-11	C-7878-092716-SSH-K16-7	Solid	09/27/16 15:10	09/28/16 09:20

Detection Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70105-4

Client Sample ID: C-7878-092716-SSH-K16-7 — Lab Sample ID: 240-70105-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	3000		520	150	ug/Kg	5	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70105-4

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
Moisture	Percent Moisture	EPA	TAL CAN

Protocol References:

EPA = US Environmental Protection Agency

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

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70105-4

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: C-7878-092716-SSH-K16-7
Date Collected: 09/27/16 15:10
Date Received: 09/28/16 09:20

Lab Sample ID: 240-70105-11
Matrix: Solid
Percent Solids: 94.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	520	U	520	250	ug/Kg	☼	10/23/16 10:01	10/24/16 17:27	5
Aroclor-1221	520	U	520	240	ug/Kg	☼	10/23/16 10:01	10/24/16 17:27	5
Aroclor-1232	520	U	520	170	ug/Kg	☼	10/23/16 10:01	10/24/16 17:27	5
Aroclor-1242	520	U	520	210	ug/Kg	☼	10/23/16 10:01	10/24/16 17:27	5
Aroclor-1248	520	U	520	180	ug/Kg	☼	10/23/16 10:01	10/24/16 17:27	5
Aroclor-1254	**3000**		520	150	ug/Kg	☼	10/23/16 10:01	10/24/16 17:27	5
Aroclor-1260	520	U F1	520	190	ug/Kg	☼	10/23/16 10:01	10/24/16 17:27	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*14 - 128*	*10/23/16 10:01*	*10/24/16 17:27*	*5*
DCB Decachlorobiphenyl	*79*		*10 - 132*	*10/23/16 10:01*	*10/24/16 17:27*	*5*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70105-4

General Chemistry

Client Sample ID: C-7878-092716-SSH-K16-7
Date Collected: 09/27/16 15:10
Date Received: 09/28/16 09:20

Lab Sample ID: 240-70105-11
Matrix: Solid
Percent Solids: 94.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	94.7		0.1	0.1	%			10/21/16 08:30	1
Percent Moisture	5.3		0.1	0.1	%			10/21/16 08:30	1

QC Association Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70105-4

GC Semi VOA

Prep Batch: 252636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-70105-11	C-7878-092716-SSH-K16-7	Total/NA	Solid	3540C	
MB 240-252636/4-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-252636/5-A	Lab Control Sample	Total/NA	Solid	3540C	
240-70105-11 MS	C-7878-092716-SSH-K16-7	Total/NA	Solid	3540C	
240-70105-11 MSD	C-7878-092716-SSH-K16-7	Total/NA	Solid	3540C	

Analysis Batch: 252794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-70105-11	C-7878-092716-SSH-K16-7	Total/NA	Solid	8082	252636
MB 240-252636/4-A	Method Blank	Total/NA	Solid	8082	252636
LCS 240-252636/5-A	Lab Control Sample	Total/NA	Solid	8082	252636
240-70105-11 MS	C-7878-092716-SSH-K16-7	Total/NA	Solid	8082	252636
240-70105-11 MSD	C-7878-092716-SSH-K16-7	Total/NA	Solid	8082	252636

General Chemistry

Analysis Batch: 252446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-70105-11	C-7878-092716-SSH-K16-7	Total/NA	Solid	Moisture	
240-70105-11 DU	C-7878-092716-SSH-K16-7	Total/NA	Solid	Moisture	

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-252636/4-A
Matrix: Solid
Analysis Batch: 252794

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 252636

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	100	U	100	48	ug/Kg		10/23/16 10:01	10/24/16 18:20	1
Aroclor-1221	100	U	100	46	ug/Kg		10/23/16 10:01	10/24/16 18:20	1
Aroclor-1232	100	U	100	32	ug/Kg		10/23/16 10:01	10/24/16 18:20	1
Aroclor-1242	100	U	100	40	ug/Kg		10/23/16 10:01	10/24/16 18:20	1
Aroclor-1248	100	U	100	34	ug/Kg		10/23/16 10:01	10/24/16 18:20	1
Aroclor-1254	100	U	100	28	ug/Kg		10/23/16 10:01	10/24/16 18:20	1
Aroclor-1260	100	U	100	36	ug/Kg		10/23/16 10:01	10/24/16 18:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*65*		*14 - 128*	*10/23/16 10:01*	*10/24/16 18:20*	*1*
DCB Decachlorobiphenyl	*59*		*10 - 132*	*10/23/16 10:01*	*10/24/16 18:20*	*1*

Lab Sample ID: LCS 240-252636/5-A
Matrix: Solid
Analysis Batch: 252794

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 252636

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor-1016			2000	1140		ug/Kg		57	47 - 120		
Aroclor-1260			2000	1170		ug/Kg		58	46 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*57*		*14 - 128*
DCB Decachlorobiphenyl	*59*		*10 - 132*

Lab Sample ID: 240-70105-11 MS
Matrix: Solid
Analysis Batch: 252794

Client Sample ID: C-7878-092716-SSH-K16-7
Prep Type: Total/NA
Prep Batch: 252636

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor-1016	520	U	2100	1460		ug/Kg	☼	69	31 - 120		
Aroclor-1260	520	U F1	2100	5180	F1	ug/Kg	☼	246	21 - 122		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*79*		*14 - 128*
DCB Decachlorobiphenyl	*81*		*10 - 132*

Lab Sample ID: 240-70105-11 MSD
Matrix: Solid
Analysis Batch: 252794

Client Sample ID: C-7878-092716-SSH-K16-7
Prep Type: Total/NA
Prep Batch: 252636

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor-1016	520	U	2100	1610		ug/Kg	☼	77	31 - 120	10	30
Aroclor-1260	520	U F1	2100	5950	F1	ug/Kg	☼	284	21 - 122	14	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*86*		*14 - 128*
DCB Decachlorobiphenyl	*82*		*10 - 132*

Method: Moisture - Percent Moisture

Lab Sample ID: 240-70105-11 DU
Matrix: Solid
Analysis Batch: 252446

Client Sample ID: C-7878-092716-SSH-K16-7
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Solids	94.7			95.1		%				0.5	20
Percent Moisture	5.3			4.9		%				9	20

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70105-4

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX2 (14-128)	DCB2 (10-132)
240-70105-11	C-7878-092716-SSH-K16-7	74	79
240-70105-11 MS	C-7878-092716-SSH-K16-7	79	81
240-70105-11 MSD	C-7878-092716-SSH-K16-7	86	82
LCS 240-252636/5-A	Lab Control Sample	57	59
MB 240-252636/4-A	Method Blank	65	59

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70105-4

Client Sample ID: C-7878-092716-SSH-K16-7 — **Lab Sample ID: 240-70105-11**
Date Collected: 09/27/16 15:10 — **Matrix: Solid**
Date Received: 09/28/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	252446	10/21/16 08:30	TPH	TAL CAN

Client Sample ID: C-7878-092716-SSH-K16-7 — **Lab Sample ID: 240-70105-11**
Date Collected: 09/27/16 15:10 — **Matrix: Solid**
Date Received: 09/28/16 09:20 — **Percent Solids: 94.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			252636	10/23/16 10:01	SDE	TAL CAN
Total/NA	Analysis	8082		5	252794	10/24/16 17:27	KMG	TAL CAN

Laboratory References:

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

Certification Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70105-4

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 (WW)	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 Michigan
10448 Citation Drive
Suite 200
Brighton, MI 48116
Phone: 810.229.2763 Fax:

2.4/C2.8

Chain of Custody Record

163422

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other:

Client Contact	Project Manager: M. Tomke	Site Contact: JE Parsons	Date: 9/27/16	COC No: 163422
Company Name: GHD	Tel/Fax: 519 884 0510	Lab Contact: A. Hecht-U	Carrier: FedEx	1 of 1 COCs
Address: 14926 N. Sheldon Rd Ste 200	Analysis Turnaround Time			Sampler: S Heinemeyer
City/State/Zip: Plymouth MI 48170	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 734 453 5123	TAT if different from Below _____			Walk-in Client:
Fax:	☐ 2 weeks			
Project Name: RacTrust SMI	☐ 1 week			
Site: SSOW 7B78 - T01 - 012	☐ 2 days			
P O #	☐ 1 day			

240-70105 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	PLBs	Specific Notes:
C-7B78-092716-SSH-MW-5	9/27/16	1200	G	C	1	N	N	X	Hold
-MW-6		1215	G	C	1	N	N	X	
-MW-7		1225	G	C	1	N	N	X	
-MW-8		1235	G	C	1	N	N	X	
-MW-5		1325	G	C	1	N	N	X	
-MW-6		1335	G	C	1	N	N	X	
-MW-7		1345	G	C	1	N	N	X	
-MW-8		1355	G	C	1	N	N	X	
-MW-5		1450	G	C	1	N	N	X	
-MW-6		1500	G	C	1	N	N	X	
-MW-7		1510	G	C	1	N	N	X	
C-7B78-092716-SSH -MW-8		1520	G	C	1	N	N	X	

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.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: Hold per GHD

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.: 788595	Cooler Temp. (°C): Obs'd: _____	Corr'd: _____	Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	GHD	9/27/16 1700	[signature]	TANC	9/28/16 9:20
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

10/25/2016

TestAmerica Canton Sample Receipt Form/Narrative **Login # :** 70105

Canton Facility

Client CHD Site Name 9/28/16

Cooler Received on 9/28/16 Opened on 9/28/16

Cooler unpacked by: BM

FedEx: 1st Grd (Exp) UPS FAS Stetson Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

TestAmerica Cooler # Foam Box (Client Cooler) Box Other

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN# IR-8 (CF +0.4 °C) Observed Cooler Temp. 2.4 °C Corrected Cooler Temp. 2.8 °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 (No)
-Were custody seals on the outside of the cooler(s) signed & dated?		Yes No (NA)
-Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?		Yes (No)
3. Shippers' packing slip attached to the cooler(s)?		(Yes) No
4. Did custody papers accompany the sample(s)?		(Yes) No
5. Were the custody papers relinquished & signed in the appropriate place?		(Yes) No
6. Was/were the person(s) who collected the samples clearly identified on the COC?		(Yes) No
7. Did all bottles arrive in good condition (Unbroken)?		(Yes) No
8. Could all bottle labels be reconciled with the COC?		(Yes) No
9. Were correct bottle(s) used for the test(s) indicated?		(Yes) No
10. Sufficient quantity received to perform indicated analyses?		(Yes) No
11. Are these work share samples?		Yes (No)
If yes, Questions 11-15 have been checked at the originating laboratory.		
11. Were sample(s) at the correct pH upon receipt?		Yes No (NA) pH Strip Lot# **HC574756**
12. Were VOAs on the COC?		(Yes) No
13. Were air bubbles >6 mm in any VOA vials?		Yes No (NA)
14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # ____		Yes (No)
15. Was a LL Hg or Me Hg trip blank present? ____		Yes (No)

Contacted PM ____ Date ____ by ____ via Verbal Voice Mail Other

Concerning ____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

15. SAMPLE CONDITION

Sample(s) ____ were received after the recommended holding time had expired.

Sample(s) ____ were received in a broken container.

Sample(s) ____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) ____ were further preserved in the laboratory.

Time preserved: ____ Preservative(s) added/Lot number(s): ____

13-Oct-2016

Rawa Fleisher
GHD Services Inc.
14496 Sheldon Road
Suite 200
Plymouth, MI 48170

Re: **Racer Trust SMI 7878-TOI-002416** Work Order: **1610535**

Dear Rawa,

ALS Environmental received 10 samples on 08-Oct-2016 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Sample results are compliant with NELAP standard requirements and QC results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 19.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Alex Csaszar

Electronically approved by: Alex Csaszar

Alex Csaszar
Project Manager

Certificate No: MN 998501

Report of Laboratory Analysis

ALS Group USA, Corp

Date: 13-Oct-16

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Work Order: **1610535**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1610535-01	C-7878-100716-SSH-6297	Concrete		10/7/2016 07:50	10/8/2016 09:30	☐
1610535-02	C-7878-100716-SSH-6291	Concrete		10/7/2016 08:00	10/8/2016 09:30	☐
1610535-03	C-7878-100716-SSH-6298	Concrete		10/7/2016 08:10	10/8/2016 09:30	☐
1610535-04	C-7878-100716-SSH-6286	Concrete		10/7/2016 08:20	10/8/2016 09:30	☐
1610535-05	C-7878-100716-SSH-6289	Concrete		10/7/2016 08:30	10/8/2016 09:30	☐
1610535-06	C-7878-100716-SSH-6285	Concrete		10/7/2016 08:40	10/8/2016 09:30	☐
1610535-07	C-7878-100716-SSH-6284	Concrete		10/7/2016 08:50	10/8/2016 09:30	☐
1610535-08	C-7878-100716-SSH-6287	Concrete		10/7/2016 09:00	10/8/2016 09:30	☐
1610535-09	C-7878-100716-SSH-6288	Concrete		10/7/2016 09:10	10/8/2016 09:30	☐
1610535-10	C-7878-100716-SSH-6282	Concrete		10/7/2016 09:20	10/8/2016 09:30	☐

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Work Order: 1610535

Case Narrative

Samples for the above noted Work Order were received on10/10/2016. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting.

With the following exceptions, all sample analyses achieved analytical criteria.

Extractable Organics:

No other deviations or anomalies were noted.

Wet Chemistry:

No other deviations or anomalies were noted.

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
WorkOrder: **1610535**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

Units Reported	Description
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight

ALS Group USA, Corp

Date: *13-Oct-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-100716-SSH-6297
Collection Date: 10/7/2016 07:50 AM

Work Order: 1610535
Lab ID: 1610535-01
Matrix: CONCRETE

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3541 / 10/11/16		Analyst: **EB**
Aroclor 1016	U		14	84	µg/Kg-dry	1	10/12/2016 11:10
Aroclor 1221	U		14	84	µg/Kg-dry	1	10/12/2016 11:10
Aroclor 1232	U		14	84	µg/Kg-dry	1	10/12/2016 11:10
Aroclor 1242	U		14	84	µg/Kg-dry	1	10/12/2016 11:10
Aroclor 1248	U		14	84	µg/Kg-dry	1	10/12/2016 11:10
Aroclor 1254	**19,000**		**1,100**	**4,200**	**µg/Kg-dry**	50	10/12/2016 19:07
Aroclor 1260	U		23	84	µg/Kg-dry	1	10/12/2016 11:10
Surr: Decachlorobiphenyl	*86.1*			*40-140*	*%REC*	1	10/12/2016 11:10
Surr: Tetrachloro-m-xylene	*98.1*			*45-124*	*%REC*	1	10/12/2016 11:10
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**4.9**		**0.025**	**0.050**	**% of sample**	1	10/11/2016 14:22

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *13-Oct-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-100716-SSH-6291
Collection Date: 10/7/2016 08:00 AM

Work Order: 1610535
Lab ID: 1610535-02
Matrix: CONCRETE

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3541 / 10/11/16		Analyst: **EB**
Aroclor 1016	U		13	82	µg/Kg-dry	1	10/12/2016 11:28
Aroclor 1221	U		13	82	µg/Kg-dry	1	10/12/2016 11:28
Aroclor 1232	U		13	82	µg/Kg-dry	1	10/12/2016 11:28
Aroclor 1242	U		13	82	µg/Kg-dry	1	10/12/2016 11:28
Aroclor 1248	U		13	82	µg/Kg-dry	1	10/12/2016 11:28
Aroclor 1254	**9,400**		**440**	**1,600**	**µg/Kg-dry**	20	10/12/2016 19:24
Aroclor 1260	U		22	82	µg/Kg-dry	1	10/12/2016 11:28
Surr: Decachlorobiphenyl	*85.1*			*40-140*	*%REC*	1	10/12/2016 11:28
Surr: Tetrachloro-m-xylene	*97.1*			*45-124*	*%REC*	1	10/12/2016 11:28
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**4.0**		**0.025**	**0.050**	**% of sample**	1	10/11/2016 14:22

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *13-Oct-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-100716-SSH-6298
Collection Date: 10/7/2016 08:10 AM

Work Order: 1610535
Lab ID: 1610535-03
Matrix: CONCRETE

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3541 / 10/11/16		Analyst: **EB**
Aroclor 1016	U		14	85	µg/Kg-dry	1	10/12/2016 11:45
Aroclor 1221	U		14	85	µg/Kg-dry	1	10/12/2016 11:45
Aroclor 1232	U		14	85	µg/Kg-dry	1	10/12/2016 11:45
Aroclor 1242	U		14	85	µg/Kg-dry	1	10/12/2016 11:45
Aroclor 1248	U		14	85	µg/Kg-dry	1	10/12/2016 11:45
Aroclor 1254	**17,000**		**460**	**1,700**	**µg/Kg-dry**	20	10/12/2016 20:17
Aroclor 1260	U		23	85	µg/Kg-dry	1	10/12/2016 11:45
Surr: Decachlorobiphenyl	*85.1*			*40-140*	*%REC*	1	10/12/2016 11:45
Surr: Tetrachloro-m-xylene	*98.1*			*45-124*	*%REC*	1	10/12/2016 11:45
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**3.3**		**0.025**	**0.050**	**% of sample**	1	10/11/2016 14:22

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *13-Oct-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-100716-SSH-6286
Collection Date: 10/7/2016 08:20 AM

Work Order: 1610535
Lab ID: 1610535-04
Matrix: CONCRETE

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3541 / 10/11/16		Analyst: **EB**
Aroclor 1016	U		14	83	µg/Kg-dry	1	10/12/2016 12:03
Aroclor 1221	U		14	83	µg/Kg-dry	1	10/12/2016 12:03
Aroclor 1232	U		14	83	µg/Kg-dry	1	10/12/2016 12:03
Aroclor 1242	U		14	83	µg/Kg-dry	1	10/12/2016 12:03
Aroclor 1248	U		14	83	µg/Kg-dry	1	10/12/2016 12:03
Aroclor 1254	**5,300**		**220**	**830**	**µg/Kg-dry**	10	10/12/2016 20:34
Aroclor 1260	U		22	83	µg/Kg-dry	1	10/12/2016 12:03
Surr: Decachlorobiphenyl	*87.1*			*40-140*	*%REC*	1	10/12/2016 12:03
Surr: Tetrachloro-m-xylene	*95.1*			*45-124*	*%REC*	1	10/12/2016 12:03
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**2.3**		**0.025**	**0.050**	**% of sample**	1	10/11/2016 14:22

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *13-Oct-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-100716-SSH-6289
Collection Date: 10/7/2016 08:30 AM

Work Order: 1610535
Lab ID: 1610535-05
Matrix: CONCRETE

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3541 / 10/11/16		Analyst: **EB**
Aroclor 1016	U		14	82	µg/Kg-dry	1	10/12/2016 12:20
Aroclor 1221	U		14	82	µg/Kg-dry	1	10/12/2016 12:20
Aroclor 1232	U		14	82	µg/Kg-dry	1	10/12/2016 12:20
Aroclor 1242	U		14	82	µg/Kg-dry	1	10/12/2016 12:20
Aroclor 1248	U		14	82	µg/Kg-dry	1	10/12/2016 12:20
Aroclor 1254	**3,500**		**220**	**820**	**µg/Kg-dry**	10	10/12/2016 20:52
Aroclor 1260	U		22	82	µg/Kg-dry	1	10/12/2016 12:20
Surr: Decachlorobiphenyl	*85.1*			*40-140*	*%REC*	1	10/12/2016 12:20
Surr: Tetrachloro-m-xylene	*98.1*			*45-124*	*%REC*	1	10/12/2016 12:20
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**4.4**		**0.025**	**0.050**	**% of sample**	1	10/11/2016 14:22

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *13-Oct-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-100716-SSH-6285
Collection Date: 10/7/2016 08:40 AM

Work Order: 1610535
Lab ID: 1610535-06
Matrix: CONCRETE

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3541 / 10/11/16		Analyst: **EB**
Aroclor 1016	U		14	84	µg/Kg-dry	1	10/12/2016 12:38
Aroclor 1221	U		14	84	µg/Kg-dry	1	10/12/2016 12:38
Aroclor 1232	U		14	84	µg/Kg-dry	1	10/12/2016 12:38
Aroclor 1242	U		14	84	µg/Kg-dry	1	10/12/2016 12:38
Aroclor 1248	U		14	84	µg/Kg-dry	1	10/12/2016 12:38
Aroclor 1254	**5,700**		**230**	**840**	**µg/Kg-dry**	10	10/12/2016 21:09
Aroclor 1260	U		23	84	µg/Kg-dry	1	10/12/2016 12:38
Surr: Decachlorobiphenyl	*60.1*			*40-140*	*%REC*	1	10/12/2016 12:38
Surr: Tetrachloro-m-xylene	*71.1*			*45-124*	*%REC*	1	10/12/2016 12:38
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**1.6**		**0.025**	**0.050**	**% of sample**	1	10/11/2016 14:22

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *13-Oct-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-100716-SSH-6284
Collection Date: 10/7/2016 08:50 AM

Work Order: 1610535
Lab ID: 1610535-07
Matrix: CONCRETE

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3541 / 10/11/16		Analyst: **EB**
Aroclor 1016	U		13	81	µg/Kg-dry	1	10/12/2016 12:55
Aroclor 1221	U		13	81	µg/Kg-dry	1	10/12/2016 12:55
Aroclor 1232	U		13	81	µg/Kg-dry	1	10/12/2016 12:55
Aroclor 1242	U		13	81	µg/Kg-dry	1	10/12/2016 12:55
Aroclor 1248	U		13	81	µg/Kg-dry	1	10/12/2016 12:55
Aroclor 1254	**1,300**		**22**	**81**	**µg/Kg-dry**	1	10/12/2016 12:55
Aroclor 1260	U		22	81	µg/Kg-dry	1	10/12/2016 12:55
Surr: Decachlorobiphenyl	*80.1*			*40-140*	*%REC*	1	10/12/2016 12:55
Surr: Tetrachloro-m-xylene	*80.1*			*45-124*	*%REC*	1	10/12/2016 12:55
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**2.4**		**0.025**	**0.050**	**% of sample**	1	10/11/2016 14:22

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *13-Oct-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-100716-SSH-6287
Collection Date: 10/7/2016 09:00 AM

Work Order: 1610535
Lab ID: 1610535-08
Matrix: CONCRETE

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3541 / 10/11/16		Analyst: **EB**
Aroclor 1016	U		13	82	µg/Kg-dry	1	10/12/2016 13:13
Aroclor 1221	U		13	82	µg/Kg-dry	1	10/12/2016 13:13
Aroclor 1232	U		13	82	µg/Kg-dry	1	10/12/2016 13:13
Aroclor 1242	U		13	82	µg/Kg-dry	1	10/12/2016 13:13
Aroclor 1248	U		13	82	µg/Kg-dry	1	10/12/2016 13:13
Aroclor 1254	**4,500**		**220**	**820**	**µg/Kg-dry**	10	10/12/2016 21:27
Aroclor 1260	U		22	82	µg/Kg-dry	1	10/12/2016 13:13
Surr: Decachlorobiphenyl	*82.1*			*40-140*	*%REC*	1	10/12/2016 13:13
Surr: Tetrachloro-m-xylene	*95.1*			*45-124*	*%REC*	1	10/12/2016 13:13
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**3.9**		**0.025**	**0.050**	**% of sample**	1	10/11/2016 14:22

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *13-Oct-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-100716-SSH-6288
Collection Date: 10/7/2016 09:10 AM

Work Order: 1610535
Lab ID: 1610535-09
Matrix: CONCRETE

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3541 / 10/11/16		Analyst: **EB**
Aroclor 1016	U		14	83	µg/Kg-dry	1	10/12/2016 13:31
Aroclor 1221	U		14	83	µg/Kg-dry	1	10/12/2016 13:31
Aroclor 1232	U		14	83	µg/Kg-dry	1	10/12/2016 13:31
Aroclor 1242	U		14	83	µg/Kg-dry	1	10/12/2016 13:31
Aroclor 1248	U		14	83	µg/Kg-dry	1	10/12/2016 13:31
Aroclor 1254	**1,700**		**23**	**83**	**µg/Kg-dry**	1	10/12/2016 13:31
Aroclor 1260	U		23	83	µg/Kg-dry	1	10/12/2016 13:31
Surr: Decachlorobiphenyl	*76.1*			*40-140*	*%REC*	1	10/12/2016 13:31
Surr: Tetrachloro-m-xylene	*90.1*			*45-124*	*%REC*	1	10/12/2016 13:31
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**4.0**		**0.025**	**0.050**	**% of sample**	1	10/11/2016 14:22

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *13-Oct-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-100716-SSH-6282
Collection Date: 10/7/2016 09:20 AM

Work Order: 1610535
Lab ID: 1610535-10
Matrix: CONCRETE

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3541 / 10/11/16		Analyst: **EB**
Aroclor 1016	U		14	85	µg/Kg-dry	1	10/12/2016 13:48
Aroclor 1221	U		14	85	µg/Kg-dry	1	10/12/2016 13:48
Aroclor 1232	U		14	85	µg/Kg-dry	1	10/12/2016 13:48
Aroclor 1242	U		14	85	µg/Kg-dry	1	10/12/2016 13:48
Aroclor 1248	U		14	85	µg/Kg-dry	1	10/12/2016 13:48
Aroclor 1254	**2,900**		**23**	**85**	**µg/Kg-dry**	1	10/12/2016 13:48
Aroclor 1260	U		23	85	µg/Kg-dry	1	10/12/2016 13:48
Surr: Decachlorobiphenyl	*78.1*			*40-140*	*%REC*	1	10/12/2016 13:48
Surr: Tetrachloro-m-xylene	*90.1*			*45-124*	*%REC*	1	10/12/2016 13:48
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**3.2**		**0.025**	**0.050**	**% of sample**	1	10/11/2016 14:22

Note: See Qualifiers page for a list of qualifiers and their definitions.

Batch ID: **92681** Instrument ID **GC14** Method: **SW8082**

MBLK Sample ID: **PBLKS1-92681-92681** Units: **µg/Kg** Analysis Date: **10/12/2016 05:36 A**

Client ID: Run ID: **GC14_161011A** SeqNo: **4081167** Prep Date: **10/11/2016** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	U	14	83								
Aroclor 1221	U	14	83								
Aroclor 1232	U	14	83								
Aroclor 1242	U	14	83								
Aroclor 1248	U	14	83								
Aroclor 1254	U	23	83								
Aroclor 1260	U	23	83								
Surr: Decachlorobiphenyl	*29.33*	0	0	*33.3*	0	*88.1*	*40-140*	0			
Surr: Tetrachloro-m-xylene	*31*	0	0	*33.3*	0	*93.1*	*45-124*	0			

LCS Sample ID: **PLCSS1-92681-92681** Units: **µg/Kg** Analysis Date: **10/12/2016 05:54 A**

Client ID: Run ID: **GC14_161011A** SeqNo: **4081168** Prep Date: **10/11/2016** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	1002	14	83	833	0	120	50-130	0			
Aroclor 1260	986	23	83	833	0	118	50-130	0			
Surr: Decachlorobiphenyl	*34*	0	0	*33.3*	0	*102*	*40-140*	0			
Surr: Tetrachloro-m-xylene	*34*	0	0	*33.3*	0	*102*	*45-124*	0			

MS Sample ID: **1610362-01A MS** Units: **µg/Kg** Analysis Date: **10/12/2016 06:29 A**

Client ID: Run ID: **GC14_161011A** SeqNo: **4081170** Prep Date: **10/11/2016** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	1037	13	82	815.3	0	127	40-140	0			
Aroclor 1260	1078	22	82	815.3	0	132	40-140	0			
Surr: Decachlorobiphenyl	*64.27*	0	0	*65.18*	0	*98.6*	*40-140*	0			
Surr: Tetrachloro-m-xylene	*63.29*	0	0	*65.18*	0	*97.1*	*45-124*	0			

MSD Sample ID: **1610362-01A MSD** Units: **µg/Kg** Analysis Date: **10/12/2016 06:47 A**

Client ID: Run ID: **GC14_161011A** SeqNo: **4081171** Prep Date: **10/11/2016** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	999	13	80	802.2	0	125	40-140	1037	3.72	50	
Aroclor 1260	1131	22	80	802.2	0	141	40-140	1078	4.74	50	S
Surr: Decachlorobiphenyl	*31.46*	0	0	*32.07*	0	*98.1*	*40-140*	64.27	*68.6*	*50*	*R*
Surr: Tetrachloro-m-xylene	*31.46*	0	0	*32.07*	0	*98.1*	*45-124*	63.29	*67.2*	*50*	*R*

The following samples were analyzed in this batch:

1610535-01A	1610535-02A	1610535-03A
1610535-04A	1610535-05A	1610535-06A
1610535-07A	1610535-08A	1610535-09A
1610535-10A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: GHD Services Inc.
Work Order: 1610535
Project: Racer Trust SMI 7878-TOI-002416

QC BATCH REPORT

Batch ID: **R197903** Instrument ID **MOIST** Method: **SW3550C**

MBLK Sample ID: **WBLKS-R197903** Units: **% of sample** Analysis Date: **10/11/2016 02:22 PM**
Client ID: Run ID: **MOIST_161011B** SeqNo: **4080611** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	U	0.025	0.050								

LCS Sample ID: **LCS-R197903** Units: **% of sample** Analysis Date: **10/11/2016 02:22 PM**
Client ID: Run ID: **MOIST_161011B** SeqNo: **4080610** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	100	0.025	0.050	100	0	100	99.5-100.5	0			

DUP Sample ID: **1610541-02A DUP** Units: **% of sample** Analysis Date: **10/11/2016 02:22 PM**
Client ID: Run ID: **MOIST_161011B** SeqNo: **4080606** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	7.49	0.025	0.050	0	0	0		7.51	0.267	20	

DUP Sample ID: **1610541-03A DUP** Units: **% of sample** Analysis Date: **10/11/2016 02:22 PM**
Client ID: Run ID: **MOIST_161011B** SeqNo: **4080608** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	13.06	0.025	0.050	0	0	0		12.25	6.4	20	

The following samples were analyzed in this batch:

1610535-01A	1610535-02A	1610535-03A
1610535-04A	1610535-05A	1610535-06A
1610535-07A	1610535-08A	1610535-09A
1610535-10A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

1610535

TestAmerica Michigan
2448 Citation Drive
Suite 200
Brighton, MI 48116
Phone: 810.229.2763 Fax:

Chain of Custody Record

ALS – Holland 163410

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other:

Client Contact	Project Manager: M. Tomkic	Site Contact: SE Pardys	Date: 10/7/16	COC No: 163410
Company Name: GHD	Tel/Fax: 517 882 0510	Lab Contact: A. Gesseg	Carrier: FedEx	1 of 1 COCs
Address: 14496 N Sheldon Rd Ste 200	Analysis Turnaround Time			Sampler: S Hoevenaar
City/State/Zip: Plymouth, MI 48170	☒ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 734 453 5123	TAT if different from Below: 3 days			Walk-in Client:
Fax:	☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day			Lab Sampling:
Project Name: RawTrust SMI				Job / SDG No.:
Site:				
PO# 5500 7878-T01-013				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	PCBs	Sample Specific Notes:
C-7878-100716-SSH-6297	10/7/16	0750	G	C	1	N	N	X	
-6291		0800	G	C	1	N	N	X	
-6298		0810	G	C	1	N	N	X	
-6286		0820	G	C	1	N	N	X	
-6289		0830	G	C	1	N	N	X	
-6285		0840	G	C	1	N	N	X	
-6284		0850	G	C	1	N	N	X	
-6287		0900	G	C	1	N	N	X	
-6288		0910	G	C	1	N	N	X	
C-7878-100716-SSH-6282		0920	G	C	1	N	N	X	
SSH									

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.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

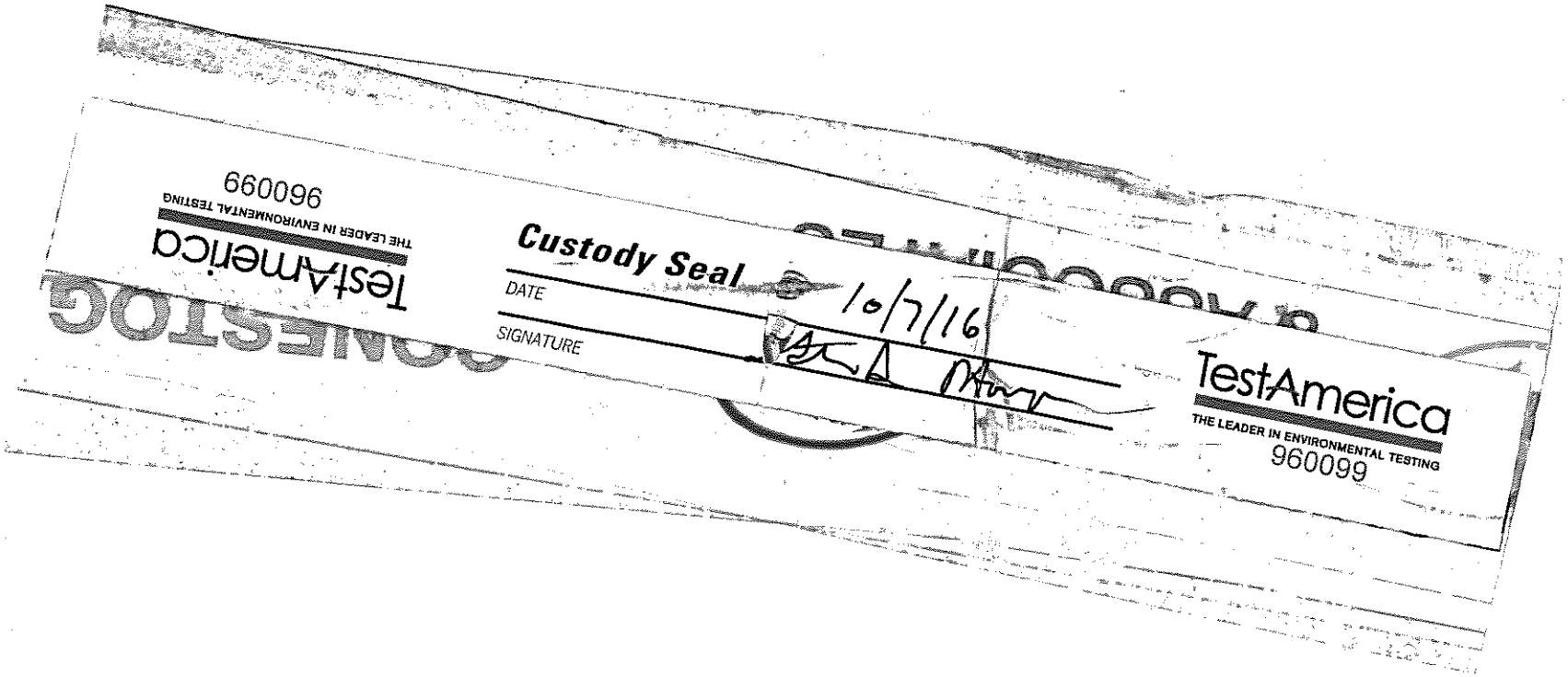
☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

TAT – 3 days

3.2c

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.: 960099	Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:
Relinquished by:	Company: GHD	Date/Time: 10/7/16 1500	Received by:	Company: ALS	Date/Time: 10/8/16 0930
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
nquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:


Custody Seal
DATE
10/7/16
SIGNATURE
TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
960099

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: **GHD - PLYMOUTH** Date/Time Received: **08-Oct-16 09:30**

Work Order: **1610535** Received by: **DS**

Checklist completed by Diane Shaw (eSignature) 10-Oct-16 (Date) Reviewed by: Alex Csaszar (eSignature) 10-Oct-16 (Date)

Matrices: Concrete

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Sample(s) received on ice?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	3.2/3.2 c	SR2	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	10/10/2016 10:52:55 AM		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

20-Oct-2016

Rawa Fleisher
GHD Services Inc.
14496 Sheldon Road
Suite 200
Plymouth, MI 48170

Re: **Racer Trust SMI 7878-TOI-002416** Work Order: **1610536**

Dear Rawa,

ALS Environmental received 4 samples on 17-Oct-2016 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Sample results are compliant with NELAP standard requirements and QC results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 13.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Alex Csaszar

Electronically approved by: Alex Csaszar

Alex Csaszar
Project Manager

Certificate No: MN 998501

Report of Laboratory Analysis

ALS Group USA, Corp

Date: 20-Oct-16

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Work Order: **1610536**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1610536-01	C-7878-100716-SSH-6299	Concrete		10/7/2016 09:30	10/8/2016 09:30	☐
1610536-02	C-7878-100716-SSH-6301	Concrete		10/7/2016 09:40	10/8/2016 09:30	☐
1610536-03	C-7878-100716-SSH-6283	Concrete		10/7/2016 09:50	10/8/2016 09:30	☐
1610536-04	C-7878-100716-SSH-6290	Concrete		10/7/2016 10:00	10/8/2016 09:30	☐

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Work Order: 1610536

Case Narrative

Samples for the above noted Work Order were received on 10/17/2016. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting.

All sample analyses achieved analytical criteria.

Extractable Organics:

No other deviations or anomalies were noted.

Wet Chemistry:

No other deviations or anomalies were noted.

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
WorkOrder: **1610536**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

Units Reported	Description
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight

ALS Group USA, Corp

Date: *20-Oct-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-100716-SSH-6299
Collection Date: 10/7/2016 09:30 AM

Work Order: 1610536
Lab ID: 1610536-01
Matrix: CONCRETE

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**					Analyst: **EB**
Aroclor 1016	U		14	83	µg/Kg-dry	1	10/19/2016 11:52
Aroclor 1221	U		14	83	µg/Kg-dry	1	10/19/2016 11:52
Aroclor 1232	U		14	83	µg/Kg-dry	1	10/19/2016 11:52
Aroclor 1242	U		14	83	µg/Kg-dry	1	10/19/2016 11:52
Aroclor 1248	U		14	83	µg/Kg-dry	1	10/19/2016 11:52
Aroclor 1254	**5,700**		**230**	**830**	**µg/Kg-dry**	10	10/19/2016 20:45
Aroclor 1260	U		23	83	µg/Kg-dry	1	10/19/2016 11:52
Surr: Decachlorobiphenyl	*73.1*			*40-140*	*%REC*	1	10/19/2016 11:52
Surr: Tetrachloro-m-xylene	*78.1*			*45-124*	*%REC*	1	10/19/2016 11:52
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**3.2**		**0.025**	**0.050**	**% of sample**	1	10/17/2016 15:27

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *20-Oct-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-100716-SSH-6301
Collection Date: 10/7/2016 09:40 AM

Work Order: 1610536
Lab ID: 1610536-02
Matrix: CONCRETE

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**					Analyst: **EB**
Aroclor 1016	U		14	84	µg/Kg-dry	1	10/19/2016 12:10
Aroclor 1221	U		14	84	µg/Kg-dry	1	10/19/2016 12:10
Aroclor 1232	U		14	84	µg/Kg-dry	1	10/19/2016 12:10
Aroclor 1242	U		14	84	µg/Kg-dry	1	10/19/2016 12:10
Aroclor 1248	U		14	84	µg/Kg-dry	1	10/19/2016 12:10
Aroclor 1254	**360,000**		**23,000**	**84,000**	**µg/Kg-dry**	1000	10/19/2016 21:55
Aroclor 1260	U		23	84	µg/Kg-dry	1	10/19/2016 12:10
Surr: Decachlorobiphenyl	*75.1*			*40-140*	*%REC*	1	10/19/2016 12:10
Surr: Tetrachloro-m-xylene	*74.1*			*45-124*	*%REC*	1	10/19/2016 12:10
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**2.5**		**0.025**	**0.050**	**% of sample**	1	10/17/2016 15:27

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *20-Oct-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-100716-SSH-6283
Collection Date: 10/7/2016 09:50 AM

Work Order: 1610536
Lab ID: 1610536-03
Matrix: CONCRETE

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**					Analyst: **EB**
Aroclor 1016	U		14	84	µg/Kg-dry	1	10/19/2016 12:28
Aroclor 1221	U		14	84	µg/Kg-dry	1	10/19/2016 12:28
Aroclor 1232	U		14	84	µg/Kg-dry	1	10/19/2016 12:28
Aroclor 1242	U		14	84	µg/Kg-dry	1	10/19/2016 12:28
Aroclor 1248	U		14	84	µg/Kg-dry	1	10/19/2016 12:28
Aroclor 1254	**16,000**		**450**	**1,700**	**µg/Kg-dry**	20	10/19/2016 22:13
Aroclor 1260	U		23	84	µg/Kg-dry	1	10/19/2016 12:28
Surr: Decachlorobiphenyl	*79.1*			*40-140*	*%REC*	1	10/19/2016 12:28
Surr: Tetrachloro-m-xylene	*81.1*			*45-124*	*%REC*	1	10/19/2016 12:28
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**2.3**		**0.025**	**0.050**	**% of sample**	1	10/17/2016 15:27

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *20-Oct-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-100716-SSH-6290
Collection Date: 10/7/2016 10:00 AM

Work Order: 1610536
Lab ID: 1610536-04
Matrix: CONCRETE

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**					Analyst: **EB**
Aroclor 1016	U		14	82	µg/Kg-dry	1	10/19/2016 12:45
Aroclor 1221	U		14	82	µg/Kg-dry	1	10/19/2016 12:45
Aroclor 1232	U		14	82	µg/Kg-dry	1	10/19/2016 12:45
Aroclor 1242	U		14	82	µg/Kg-dry	1	10/19/2016 12:45
Aroclor 1248	U		14	82	µg/Kg-dry	1	10/19/2016 12:45
Aroclor 1254	**8,900**		**450**	**1,600**	**µg/Kg-dry**	20	10/19/2016 22:30
Aroclor 1260	U		22	82	µg/Kg-dry	1	10/19/2016 12:45
Surr: Decachlorobiphenyl	*71.1*			*40-140*	*%REC*	1	10/19/2016 12:45
Surr: Tetrachloro-m-xylene	*83.1*			*45-124*	*%REC*	1	10/19/2016 12:45
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**4.2**		**0.025**	**0.050**	**% of sample**	1	10/17/2016 15:27

Note: See Qualifiers page for a list of qualifiers and their definitions.

Batch ID: **93071A** Instrument ID **GC14** Method: **SW8082**

MBLK Sample ID: **PBLKS1-93071A-93071A** Units: **µg/Kg** Analysis Date: **10/19/2016 08:39 A**

Client ID: Run ID: **GC14_161018A** SeqNo: **4096876** Prep Date: **10/18/2016** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	U	14	83								
Aroclor 1221	U	14	83								
Aroclor 1232	U	14	83								
Aroclor 1242	U	14	83								
Aroclor 1248	U	14	83								
Aroclor 1254	U	23	83								
Aroclor 1260	U	23	83								
Surr: Decachlorobiphenyl	*27.33*	0	0	*33.3*	0	*82.1*	*40-140*	0			
Surr: Tetrachloro-m-xylene	*29*	0	0	*33.3*	0	*87.1*	*45-124*	0			

LCS Sample ID: **PLCSS1-93071-93071A** Units: **µg/Kg** Analysis Date: **10/19/2016 08:57 A**

Client ID: Run ID: **GC14_161018A** SeqNo: **4096878** Prep Date: **10/18/2016** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	950	14	83	833	0	114	50-130	0			
Aroclor 1260	919.7	23	83	833	0	110	50-130	0			
Surr: Decachlorobiphenyl	*29.67*	0	0	*33.3*	0	*89.1*	*40-140*	0			
Surr: Tetrachloro-m-xylene	*29.67*	0	0	*33.3*	0	*89.1*	*45-124*	0			

MS Sample ID: **16101000-05B MS** Units: **µg/Kg** Analysis Date: **10/19/2016 09:32 A**

Client ID: Run ID: **GC14_161018A** SeqNo: **4096880** Prep Date: **10/18/2016** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	913.5	13	81	807.5	0	113	40-140	0			
Aroclor 1260	920.3	22	81	807.5	0	114	40-140	0			
Surr: Decachlorobiphenyl	*29.73*	0	0	*32.28*	0	*92.1*	*40-140*	0			
Surr: Tetrachloro-m-xylene	*28.44*	0	0	*32.28*	0	*88.1*	*45-124*	0			

MSD Sample ID: **16101000-05B MSD** Units: **µg/Kg** Analysis Date: **10/19/2016 09:49 A**

Client ID: Run ID: **GC14_161018A** SeqNo: **4096882** Prep Date: **10/18/2016** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	871.1	13	78	782	0	111	40-140	913.5	4.75	50	
Aroclor 1260	893.4	21	78	782	0	114	40-140	920.3	2.97	50	
Surr: Decachlorobiphenyl	*29.1*	0	0	*31.26*	0	*93.1*	*40-140*	29.73	*2.14*	*50*	
Surr: Tetrachloro-m-xylene	*27.22*	0	0	*31.26*	0	*87.1*	*45-124*	28.44	*4.36*	*50*	

The following samples were analyzed in this batch: 1610536-01A 1610536-02A 1610536-03A 1610536-04A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: GHD Services Inc.
Work Order: 1610536
Project: Racer Trust SMI 7878-TOI-002416

QC BATCH REPORT

Batch ID: **R198384** Instrument ID **MOIST** Method: **SW3550C**

MBLK Sample ID: **WBLKS-R198384** Units: **% of sample** Analysis Date: **10/17/2016 03:27 PM**
Client ID: Run ID: **MOIST_161017B** SeqNo: **4093303** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	U	0.025	0.050								

LCS Sample ID: **LCS-R198384** Units: **% of sample** Analysis Date: **10/17/2016 03:27 PM**
Client ID: Run ID: **MOIST_161017B** SeqNo: **4093301** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	100	0.025	0.050	100	0	100	99.5-100.5	0			

DUP Sample ID: **1610990-07B DUP** Units: **% of sample** Analysis Date: **10/17/2016 03:27 PM**
Client ID: Run ID: **MOIST_161017B** SeqNo: **4093294** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	15.87	0.025	0.050	0	0	0		15.38	3.14	20	

DUP Sample ID: **1610990-10B DUP** Units: **% of sample** Analysis Date: **10/17/2016 03:27 PM**
Client ID: Run ID: **MOIST_161017B** SeqNo: **4093300** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	15.67	0.025	0.050	0	0	0		15.73	0.382	20	

The following samples were analyzed in this batch: 1610536-01A 1610536-02A 1610536-03A 1610536-04A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

1610536

TestAmerica Michigan

10448 Citation Drive
Suite 200
Brighton, MI 48116
Phone: 810.229.2763 Fax:

Chain of Custody Record

ALS - Holland 163411

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTI
TestAmerica Laboratories, In
TAL-8210 (071

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other:

Client Contact	Project Manager: M. Tomaj	Site Contact: JE Parlys	Date: 10/7/16	COC No: 16341.1
Company Name: GHD	Tel/Fax: 517 884 6510	Lab Contact: A. Casscar	Carrier: FedEx	1 of 1 COCs
Address: 14496 N. Sheldon Rd Ste 200	Analysis Turnaround Time			Sampler: S. Hoeksema
City/State/Zip: Plymouth MI 48170	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 734 453 5123	TAT if different from Below			Walk-in Client:
Fax:	☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day — Hold			Lab Sampling:
Project Name: RacTrust SMI				Job / SDG No.:
Site:				
PO# 5500 7878-T01-013				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs	Sample Specific Notes:
L-7878-100716-SSH-6299	10/7/16	0930	G	L	1	N	N	X	
" -6301	"	0940	G	L	1	N	N	X	
" -6283	"	0950	G	L	1	N	N	X	
L-7878-100716-SSH-6290	"	1006	G	L	1	N	N	X	

1311

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.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

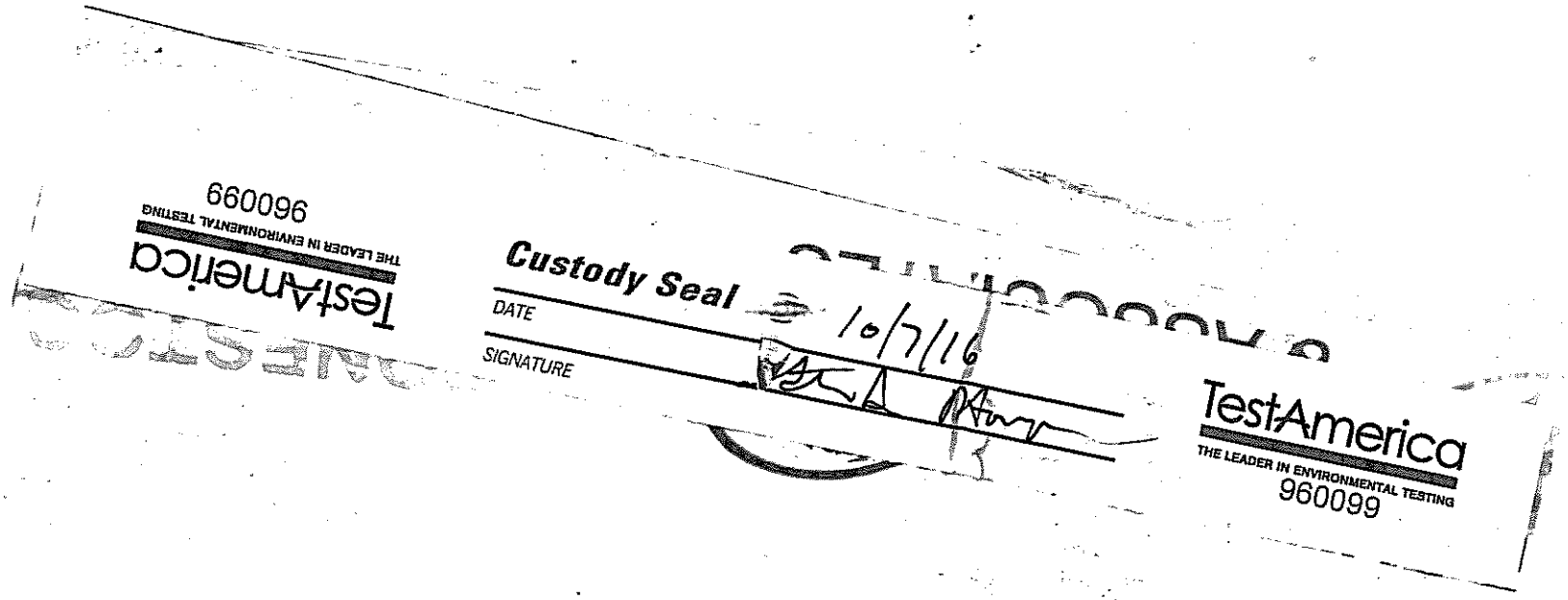
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: Hold per GHD

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.: 960099		Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:
Relinquished by:	Company: GHD	Date/Time: 10/7/16 1500	Received by:	Company: ACS	Date/Time: 10/8/16 0930
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

3.2-c


660096
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica
Custody Seal
DATE
10/7/16
SIGNATURE
TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
960099

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: **GHD - PLYMOUTH** Date/Time Received: **17-Oct-16 00:00**

Work Order: **1610536** Received by: **DS**

Checklist completed by Diane Shaw (eSignature) 10-Oct-16 (Date) Reviewed by: Alex Csaszar (eSignature) 10-Oct-16 (Date)

Matrices: Concrete

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Sample(s) received on ice?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	3.2/3.2 c	SR2	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	10/10/2016 10:56:23 AM		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:	_		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

24-Oct-2016

Rawa Fleisher
GHD Services Inc.
14496 Sheldon Road
Suite 200
Plymouth, MI 48170

Re: **Racer Trust SMI 7878-TOI-002416** Work Order: **16101208**

Dear Rawa,

ALS Environmental received 19 samples on 19-Oct-2016 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Sample results are compliant with NELAP standard requirements and QC results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 31.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Alex Csaszar

Electronically approved by: Alex Csaszar

Alex Csaszar
Project Manager

Certificate No: MN 998501

ALS Group USA, Corp

Date: 24-Oct-16

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Work Order: **16101208**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
16101208-01	C-7878-101816-SSH-6332	Soil		10/18/2016 11:05	10/19/2016 09:00	☐
16101208-02	C-7878-101816-SSH-6336	Soil		10/18/2016 11:15	10/19/2016 09:00	☐
16101208-03	C-7878-101816-SSH-6337	Soil		10/18/2016 11:25	10/19/2016 09:00	☐
16101208-04	C-7878-101816-SSH-6334	Soil		10/18/2016 11:35	10/19/2016 09:00	☐
16101208-05	C-7878-101816-SSH-6333	Soil		10/18/2016 11:45	10/19/2016 09:00	☐
16101208-06	C-7878-101816-SSH-6338	Soil		10/18/2016 11:55	10/19/2016 09:00	☐
16101208-07	C-7878-101816-SSH-6331	Soil		10/18/2016 12:05	10/19/2016 09:00	☐
16101208-08	C-7878-101816-SSH-6342	Soil		10/18/2016 12:20	10/19/2016 09:00	☐
16101208-09	C-7878-101816-SSH-6343	Soil		10/18/2016 12:30	10/19/2016 09:00	☐
16101208-10	C-7878-101816-SSH-6341	Soil		10/18/2016 12:40	10/19/2016 09:00	☐
16101208-11	C-7878-101816-SSH-6339	Soil		10/18/2016 12:50	10/19/2016 09:00	☐
16101208-12	C-7878-101816-SSH-6340	Soil		10/18/2016 13:00	10/19/2016 09:00	☐
16101208-13	C-7878-101816-SSH-6321	Soil		10/18/2016 13:10	10/19/2016 09:00	☐
16101208-14	C-7878-101816-SSH-6323	Soil		10/18/2016 13:20	10/19/2016 09:00	☐
16101208-15	C-7878-101816-SSH-6325	Soil		10/18/2016 13:30	10/19/2016 09:00	☐
16101208-16	C-7878-101816-SSH-6324	Soil		10/18/2016 13:40	10/19/2016 09:00	☐
16101208-17	C-7878-101816-SSH-6327	Soil		10/18/2016 13:55	10/19/2016 09:00	☐
16101208-18	C-7878-101816-SSH-6328	Soil		10/18/2016 14:05	10/19/2016 09:00	☐
16101208-19	C-7878-101816-SSH-6329	Soil		10/18/2016 14:15	10/19/2016 09:00	☐

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Work Order: 16101208

Case Narrative

Samples for the above noted Work Order were received on 10/19/2016. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting.

With the following exceptions, all sample analyses achieved analytical criteria.

Extractable Organics:

Batch 93243, Method PCB_8082_S, Samples 16101208-12A MS and MSD: Recoveries of spiked Aroclor 1260 are elevated due to large amounts of Aroclor 1254 in parent sample.

Wet Chemistry:

No other deviations or anomalies were noted.

ALS Group USA, Corp

Date: 24-Oct-16

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
WorkOrder: **16101208**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

Units Reported	Description
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight

ALS Group USA, Corp

Date: *24-Oct-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-101816-SSH-6332
Collection Date: 10/18/2016 11:05 AM

Work Order: 16101208
Lab ID: 16101208-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3541 / 10/20/16		Analyst: **EB**
Aroclor 1016	U		14	86	µg/Kg-dry	1	10/21/2016 11:45
Aroclor 1221	U		14	86	µg/Kg-dry	1	10/21/2016 11:45
Aroclor 1232	U		14	86	µg/Kg-dry	1	10/21/2016 11:45
Aroclor 1242	U		14	86	µg/Kg-dry	1	10/21/2016 11:45
Aroclor 1248	U		14	86	µg/Kg-dry	1	10/21/2016 11:45
Aroclor 1254	**5,500**		**230**	**860**	**µg/Kg-dry**	10	10/22/2016 10:42
Aroclor 1260	U		23	86	µg/Kg-dry	1	10/21/2016 11:45
Surr: Decachlorobiphenyl	*91.1*			*40-140*	*%REC*	1	10/21/2016 11:45
Surr: Tetrachloro-m-xylene	*92.1*			*45-124*	*%REC*	1	10/21/2016 11:45
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**4.1**		**0.025**	**0.050**	**% of sample**	1	10/19/2016 13:36

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *24-Oct-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-101816-SSH-6336
Collection Date: 10/18/2016 11:15 AM

Work Order: 16101208
Lab ID: 16101208-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3541 / 10/20/16		Analyst: **EB**
Aroclor 1016	U		14	83	µg/Kg-dry	1	10/21/2016 12:02
Aroclor 1221	U		14	83	µg/Kg-dry	1	10/21/2016 12:02
Aroclor 1232	U		14	83	µg/Kg-dry	1	10/21/2016 12:02
Aroclor 1242	U		14	83	µg/Kg-dry	1	10/21/2016 12:02
Aroclor 1248	U		14	83	µg/Kg-dry	1	10/21/2016 12:02
Aroclor 1254	**48,000**		**1,100**	**4,100**	**µg/Kg-dry**	50	10/22/2016 10:59
Aroclor 1260	U		22	83	µg/Kg-dry	1	10/21/2016 12:02
Surr: Decachlorobiphenyl	*86.1*			*40-140*	*%REC*	1	10/21/2016 12:02
Surr: Tetrachloro-m-xylene	*87.1*			*45-124*	*%REC*	1	10/21/2016 12:02
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**4.2**		**0.025**	**0.050**	**% of sample**	1	10/19/2016 13:36

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *24-Oct-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-101816-SSH-6337
Collection Date: 10/18/2016 11:25 AM

Work Order: 16101208
Lab ID: 16101208-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3541 / 10/20/16		Analyst: **EB**
Aroclor 1016	U		14	86	µg/Kg-dry	1	10/21/2016 12:20
Aroclor 1221	U		14	86	µg/Kg-dry	1	10/21/2016 12:20
Aroclor 1232	U		14	86	µg/Kg-dry	1	10/21/2016 12:20
Aroclor 1242	U		14	86	µg/Kg-dry	1	10/21/2016 12:20
Aroclor 1248	U		14	86	µg/Kg-dry	1	10/21/2016 12:20
Aroclor 1254	**4,700**		**230**	**860**	**µg/Kg-dry**	10	10/22/2016 11:17
Aroclor 1260	U		23	86	µg/Kg-dry	1	10/21/2016 12:20
Surr: Decachlorobiphenyl	*76.1*			*40-140*	*%REC*	1	10/21/2016 12:20
Surr: Tetrachloro-m-xylene	*71.1*			*45-124*	*%REC*	1	10/21/2016 12:20
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**4.3**		**0.025**	**0.050**	**% of sample**	1	10/19/2016 13:36

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *24-Oct-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-101816-SSH-6334
Collection Date: 10/18/2016 11:35 AM

Work Order: 16101208
Lab ID: 16101208-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3541 / 10/20/16		Analyst: **EB**
Aroclor 1016	U		13	81	µg/Kg-dry	1	10/21/2016 12:37
Aroclor 1221	U		13	81	µg/Kg-dry	1	10/21/2016 12:37
Aroclor 1232	U		13	81	µg/Kg-dry	1	10/21/2016 12:37
Aroclor 1242	U		13	81	µg/Kg-dry	1	10/21/2016 12:37
Aroclor 1248	U		13	81	µg/Kg-dry	1	10/21/2016 12:37
Aroclor 1254	**64,000**		**2,200**	**8,100**	**µg/Kg-dry**	100	10/22/2016 11:34
Aroclor 1260	U		22	81	µg/Kg-dry	1	10/21/2016 12:37
Surr: Decachlorobiphenyl	*78.1*			*40-140*	*%REC*	1	10/21/2016 12:37
Surr: Tetrachloro-m-xylene	*70.1*			*45-124*	*%REC*	1	10/21/2016 12:37
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**1.9**		**0.025**	**0.050**	**% of sample**	1	10/19/2016 13:36

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *24-Oct-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-101816-SSH-6333
Collection Date: 10/18/2016 11:45 AM

Work Order: 16101208
Lab ID: 16101208-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3541 / 10/20/16		Analyst: **EB**
Aroclor 1016	U		14	85	µg/Kg-dry	1	10/21/2016 12:55
Aroclor 1221	U		14	85	µg/Kg-dry	1	10/21/2016 12:55
Aroclor 1232	U		14	85	µg/Kg-dry	1	10/21/2016 12:55
Aroclor 1242	U		14	85	µg/Kg-dry	1	10/21/2016 12:55
Aroclor 1248	U		14	85	µg/Kg-dry	1	10/21/2016 12:55
Aroclor 1254	**110,000**		**2,300**	**8,500**	**µg/Kg-dry**	100	10/22/2016 12:09
Aroclor 1260	U		23	85	µg/Kg-dry	1	10/21/2016 12:55
Surr: Decachlorobiphenyl	*69.1*			*40-140*	*%REC*	1	10/21/2016 12:55
Surr: Tetrachloro-m-xylene	*70.1*			*45-124*	*%REC*	1	10/21/2016 12:55
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**2.9**		**0.025**	**0.050**	**% of sample**	1	10/19/2016 13:36

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *24-Oct-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-101816-SSH-6338
Collection Date: 10/18/2016 11:55 AM

Work Order: 16101208
Lab ID: 16101208-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3541 / 10/20/16		Analyst: **EB**
Aroclor 1016	U		14	82	µg/Kg-dry	1	10/21/2016 13:47
Aroclor 1221	U		14	82	µg/Kg-dry	1	10/21/2016 13:47
Aroclor 1232	U		14	82	µg/Kg-dry	1	10/21/2016 13:47
Aroclor 1242	U		14	82	µg/Kg-dry	1	10/21/2016 13:47
Aroclor 1248	U		14	82	µg/Kg-dry	1	10/21/2016 13:47
Aroclor 1254	**5,800**		**220**	**820**	**µg/Kg-dry**	10	10/22/2016 12:44
Aroclor 1260	U		22	82	µg/Kg-dry	1	10/21/2016 13:47
Surr: Decachlorobiphenyl	*68.1*			*40-140*	*%REC*	1	10/21/2016 13:47
Surr: Tetrachloro-m-xylene	*72.1*			*45-124*	*%REC*	1	10/21/2016 13:47
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**1.7**		**0.025**	**0.050**	**% of sample**	1	10/19/2016 13:36

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *24-Oct-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-101816-SSH-6331
Collection Date: 10/18/2016 12:05 PM

Work Order: 16101208
Lab ID: 16101208-07
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3541 / 10/20/16		Analyst: **EB**
Aroclor 1016	U		14	86	µg/Kg-dry	1	10/21/2016 14:05
Aroclor 1221	U		14	86	µg/Kg-dry	1	10/21/2016 14:05
Aroclor 1232	U		14	86	µg/Kg-dry	1	10/21/2016 14:05
Aroclor 1242	U		14	86	µg/Kg-dry	1	10/21/2016 14:05
Aroclor 1248	U		14	86	µg/Kg-dry	1	10/21/2016 14:05
Aroclor 1254	**33,000**		**1,200**	**4,300**	**µg/Kg-dry**	50	10/22/2016 13:37
Aroclor 1260	U		23	86	µg/Kg-dry	1	10/21/2016 14:05
Surr: Decachlorobiphenyl	*80.1*			*40-140*	*%REC*	1	10/21/2016 14:05
Surr: Tetrachloro-m-xylene	*78.1*			*45-124*	*%REC*	1	10/21/2016 14:05
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**3.1**		**0.025**	**0.050**	**% of sample**	1	10/19/2016 13:36

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *24-Oct-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-101816-SSH-6342
Collection Date: 10/18/2016 12:20 PM

Work Order: 16101208
Lab ID: 16101208-08
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3541 / 10/20/16		Analyst: **EB**
Aroclor 1016	U		14	85	µg/Kg-dry	1	10/21/2016 14:22
Aroclor 1221	U		14	85	µg/Kg-dry	1	10/21/2016 14:22
Aroclor 1232	U		14	85	µg/Kg-dry	1	10/21/2016 14:22
Aroclor 1242	U		14	85	µg/Kg-dry	1	10/21/2016 14:22
Aroclor 1248	U		14	85	µg/Kg-dry	1	10/21/2016 14:22
Aroclor 1254	**10,000**		**460**	**1,700**	**µg/Kg-dry**	20	10/22/2016 13:55
Aroclor 1260	U		23	85	µg/Kg-dry	1	10/21/2016 14:22
Surr: Decachlorobiphenyl	*77.1*			*40-140*	*%REC*	1	10/21/2016 14:22
Surr: Tetrachloro-m-xylene	*83.1*			*45-124*	*%REC*	1	10/21/2016 14:22
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**3.3**		**0.025**	**0.050**	**% of sample**	1	10/19/2016 13:36

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *24-Oct-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-101816-SSH-6343
Collection Date: 10/18/2016 12:30 PM

Work Order: 16101208
Lab ID: 16101208-09
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3541 / 10/20/16		Analyst: **EB**
Aroclor 1016	U		13	82	µg/Kg-dry	1	10/21/2016 14:40
Aroclor 1221	U		13	82	µg/Kg-dry	1	10/21/2016 14:40
Aroclor 1232	U		13	82	µg/Kg-dry	1	10/21/2016 14:40
Aroclor 1242	U		13	82	µg/Kg-dry	1	10/21/2016 14:40
Aroclor 1248	U		13	82	µg/Kg-dry	1	10/21/2016 14:40
Aroclor 1254	**26,000**		**1,100**	**4,100**	**µg/Kg-dry**	50	10/22/2016 14:12
Aroclor 1260	U		22	82	µg/Kg-dry	1	10/21/2016 14:40
Surr: Decachlorobiphenyl	*77.1*			*40-140*	*%REC*	1	10/21/2016 14:40
Surr: Tetrachloro-m-xylene	*85.1*			*45-124*	*%REC*	1	10/21/2016 14:40
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**2.7**		**0.025**	**0.050**	**% of sample**	1	10/19/2016 13:36

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *24-Oct-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-101816-SSH-6341
Collection Date: 10/18/2016 12:40 PM

Work Order: 16101208
Lab ID: 16101208-10
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3541 / 10/20/16		Analyst: **EB**
Aroclor 1016	U		14	85	µg/Kg-dry	1	10/21/2016 14:57
Aroclor 1221	U		14	85	µg/Kg-dry	1	10/21/2016 14:57
Aroclor 1232	U		14	85	µg/Kg-dry	1	10/21/2016 14:57
Aroclor 1242	U		14	85	µg/Kg-dry	1	10/21/2016 14:57
Aroclor 1248	U		14	85	µg/Kg-dry	1	10/21/2016 14:57
Aroclor 1254	**29,000**		**1,200**	**4,300**	**µg/Kg-dry**	50	10/22/2016 14:30
Aroclor 1260	U		23	85	µg/Kg-dry	1	10/21/2016 14:57
Surr: Decachlorobiphenyl	*76.1*			*40-140*	*%REC*	1	10/21/2016 14:57
Surr: Tetrachloro-m-xylene	*81.1*			*45-124*	*%REC*	1	10/21/2016 14:57
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**3.0**		**0.025**	**0.050**	**% of sample**	1	10/19/2016 13:36

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *24-Oct-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-101816-SSH-6339
Collection Date: 10/18/2016 12:50 PM

Work Order: 16101208
Lab ID: 16101208-11
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3541 / 10/20/16		Analyst: **EB**
Aroclor 1016	U		14	83	µg/Kg-dry	1	10/21/2016 15:15
Aroclor 1221	U		14	83	µg/Kg-dry	1	10/21/2016 15:15
Aroclor 1232	U		14	83	µg/Kg-dry	1	10/21/2016 15:15
Aroclor 1242	U		14	83	µg/Kg-dry	1	10/21/2016 15:15
Aroclor 1248	U		14	83	µg/Kg-dry	1	10/21/2016 15:15
Aroclor 1254	**59,000**		**2,300**	**8,300**	**µg/Kg-dry**	100	10/22/2016 14:47
Aroclor 1260	U		23	83	µg/Kg-dry	1	10/21/2016 15:15
Surr: Decachlorobiphenyl	*60.1*			*40-140*	*%REC*	1	10/21/2016 15:15
Surr: Tetrachloro-m-xylene	*84.1*			*45-124*	*%REC*	1	10/21/2016 15:15
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**2.2**		**0.025**	**0.050**	**% of sample**	1	10/19/2016 13:36

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *24-Oct-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-101816-SSH-6340
Collection Date: 10/18/2016 01:00 PM

Work Order: 16101208
Lab ID: 16101208-12
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3541 / 10/20/16		Analyst: **EB**
Aroclor 1016	U		14	84	µg/Kg-dry	1	10/21/2016 22:02
Aroclor 1221	U		14	84	µg/Kg-dry	1	10/21/2016 22:02
Aroclor 1232	U		14	84	µg/Kg-dry	1	10/21/2016 22:02
Aroclor 1242	U		14	84	µg/Kg-dry	1	10/21/2016 22:02
Aroclor 1248	U		14	84	µg/Kg-dry	1	10/21/2016 22:02
Aroclor 1254	**57,000**		**2,300**	**8,400**	**µg/Kg-dry**	100	10/22/2016 15:22
Aroclor 1260	U		23	84	µg/Kg-dry	1	10/21/2016 22:02
Surr: Decachlorobiphenyl	*85.1*			*40-140*	*%REC*	1	10/21/2016 22:02
Surr: Tetrachloro-m-xylene	*87.1*			*45-124*	*%REC*	1	10/21/2016 22:02
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**3.4**		**0.025**	**0.050**	**% of sample**	1	10/19/2016 13:36

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *24-Oct-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-101816-SSH-6321
Collection Date: 10/18/2016 01:10 PM

Work Order: 16101208
Lab ID: 16101208-13
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3541 / 10/20/16		Analyst: **EB**
Aroclor 1016	U		14	85	µg/Kg-dry	1	10/21/2016 22:55
Aroclor 1221	U		14	85	µg/Kg-dry	1	10/21/2016 22:55
Aroclor 1232	U		14	85	µg/Kg-dry	1	10/21/2016 22:55
Aroclor 1242	U		14	85	µg/Kg-dry	1	10/21/2016 22:55
Aroclor 1248	U		14	85	µg/Kg-dry	1	10/21/2016 22:55
Aroclor 1254	**11,000**		**460**	**1,700**	**µg/Kg-dry**	20	10/22/2016 15:40
Aroclor 1260	U		23	85	µg/Kg-dry	1	10/21/2016 22:55
Surr: Decachlorobiphenyl	*72.1*			*40-140*	*%REC*	1	10/21/2016 22:55
Surr: Tetrachloro-m-xylene	*77.1*			*45-124*	*%REC*	1	10/21/2016 22:55
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**3.6**		**0.025**	**0.050**	**% of sample**	1	10/19/2016 13:36

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *24-Oct-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-101816-SSH-6323
Collection Date: 10/18/2016 01:20 PM

Work Order: 16101208
Lab ID: 16101208-14
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3541 / 10/20/16		Analyst: **EB**
Aroclor 1016	U		14	82	µg/Kg-dry	1	10/21/2016 23:12
Aroclor 1221	U		14	82	µg/Kg-dry	1	10/21/2016 23:12
Aroclor 1232	U		14	82	µg/Kg-dry	1	10/21/2016 23:12
Aroclor 1242	U		14	82	µg/Kg-dry	1	10/21/2016 23:12
Aroclor 1248	U		14	82	µg/Kg-dry	1	10/21/2016 23:12
Aroclor 1254	**1,900**		**110**	**410**	**µg/Kg-dry**	5	10/22/2016 15:57
Aroclor 1260	U		22	82	µg/Kg-dry	1	10/21/2016 23:12
Surr: Decachlorobiphenyl	*77.1*			*40-140*	*%REC*	1	10/21/2016 23:12
Surr: Tetrachloro-m-xylene	*82.1*			*45-124*	*%REC*	1	10/21/2016 23:12
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**3.0**		**0.025**	**0.050**	**% of sample**	1	10/19/2016 13:36

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *24-Oct-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-101816-SSH-6325
Collection Date: 10/18/2016 01:30 PM

Work Order: 16101208
Lab ID: 16101208-15
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3541 / 10/20/16		Analyst: **EB**
Aroclor 1016	U		14	86	µg/Kg-dry	1	10/21/2016 23:30
Aroclor 1221	U		14	86	µg/Kg-dry	1	10/21/2016 23:30
Aroclor 1232	U		14	86	µg/Kg-dry	1	10/21/2016 23:30
Aroclor 1242	U		14	86	µg/Kg-dry	1	10/21/2016 23:30
Aroclor 1248	U		14	86	µg/Kg-dry	1	10/21/2016 23:30
Aroclor 1254	**20,000**		**1,200**	**4,300**	**µg/Kg-dry**	50	10/22/2016 16:15
Aroclor 1260	U		23	86	µg/Kg-dry	1	10/21/2016 23:30
Surr: Decachlorobiphenyl	*70.1*			*40-140*	*%REC*	1	10/21/2016 23:30
Surr: Tetrachloro-m-xylene	*73.1*			*45-124*	*%REC*	1	10/21/2016 23:30
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**3.1**		**0.025**	**0.050**	**% of sample**	1	10/19/2016 13:36

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *24-Oct-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-101816-SSH-6324
Collection Date: 10/18/2016 01:40 PM

Work Order: 16101208
Lab ID: 16101208-16
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3541 / 10/20/16		Analyst: **EB**
Aroclor 1016	U		14	83	µg/Kg-dry	1	10/21/2016 23:47
Aroclor 1221	U		14	83	µg/Kg-dry	1	10/21/2016 23:47
Aroclor 1232	U		14	83	µg/Kg-dry	1	10/21/2016 23:47
Aroclor 1242	U		14	83	µg/Kg-dry	1	10/21/2016 23:47
Aroclor 1248	U		14	83	µg/Kg-dry	1	10/21/2016 23:47
Aroclor 1254	**10,000**		**450**	**1,700**	**µg/Kg-dry**	20	10/22/2016 17:07
Aroclor 1260	U		23	83	µg/Kg-dry	1	10/21/2016 23:47
Surr: Decachlorobiphenyl	*67.1*			*40-140*	*%REC*	1	10/21/2016 23:47
Surr: Tetrachloro-m-xylene	*75.1*			*45-124*	*%REC*	1	10/21/2016 23:47
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**3.5**		**0.025**	**0.050**	**% of sample**	1	10/19/2016 14:56

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *24-Oct-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-101816-SSH-6327
Collection Date: 10/18/2016 01:55 PM

Work Order: 16101208
Lab ID: 16101208-17
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3541 / 10/20/16		Analyst: **EB**
Aroclor 1016	U		14	87	µg/Kg-dry	1	10/22/2016 00:05
Aroclor 1221	U		14	87	µg/Kg-dry	1	10/22/2016 00:05
Aroclor 1232	U		14	87	µg/Kg-dry	1	10/22/2016 00:05
Aroclor 1242	U		14	87	µg/Kg-dry	1	10/22/2016 00:05
Aroclor 1248	U		14	87	µg/Kg-dry	1	10/22/2016 00:05
Aroclor 1254	**2,600**		**120**	**430**	**µg/Kg-dry**	5	10/22/2016 17:25
Aroclor 1260	U		24	87	µg/Kg-dry	1	10/22/2016 00:05
Surr: Decachlorobiphenyl	*81.1*			*40-140*	*%REC*	1	10/22/2016 00:05
Surr: Tetrachloro-m-xylene	*84.1*			*45-124*	*%REC*	1	10/22/2016 00:05
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**4.5**		**0.025**	**0.050**	**% of sample**	1	10/19/2016 14:56

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *24-Oct-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-101816-SSH-6328
Collection Date: 10/18/2016 02:05 PM

Work Order: 16101208
Lab ID: 16101208-18
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3541 / 10/20/16		Analyst: **EB**
Aroclor 1016	U		13	82	µg/Kg-dry	1	10/22/2016 00:23
Aroclor 1221	U		13	82	µg/Kg-dry	1	10/22/2016 00:23
Aroclor 1232	U		13	82	µg/Kg-dry	1	10/22/2016 00:23
Aroclor 1242	U		13	82	µg/Kg-dry	1	10/22/2016 00:23
Aroclor 1248	U		13	82	µg/Kg-dry	1	10/22/2016 00:23
Aroclor 1254	**4,100**		**220**	**820**	**µg/Kg-dry**	10	10/22/2016 17:42
Aroclor 1260	U		22	82	µg/Kg-dry	1	10/22/2016 00:23
Surr: Decachlorobiphenyl	*89.1*			*40-140*	*%REC*	1	10/22/2016 00:23
Surr: Tetrachloro-m-xylene	*89.1*			*45-124*	*%REC*	1	10/22/2016 00:23
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**3.5**		**0.025**	**0.050**	**% of sample**	1	10/19/2016 14:56

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *24-Oct-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-101816-SSH-6329
Collection Date: 10/18/2016 02:15 PM

Work Order: 16101208
Lab ID: 16101208-19
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3541 / 10/20/16		Analyst: **EB**
Aroclor 1016	U		14	84	µg/Kg-dry	1	10/22/2016 00:40
Aroclor 1221	U		14	84	µg/Kg-dry	1	10/22/2016 00:40
Aroclor 1232	U		14	84	µg/Kg-dry	1	10/22/2016 00:40
Aroclor 1242	U		14	84	µg/Kg-dry	1	10/22/2016 00:40
Aroclor 1248	U		14	84	µg/Kg-dry	1	10/22/2016 00:40
Aroclor 1254	**3,600**		**230**	**840**	**µg/Kg-dry**	10	10/22/2016 18:00
Aroclor 1260	U		23	84	µg/Kg-dry	1	10/22/2016 00:40
Surr: Decachlorobiphenyl	*85.1*			*40-140*	*%REC*	1	10/22/2016 00:40
Surr: Tetrachloro-m-xylene	*88.1*			*45-124*	*%REC*	1	10/22/2016 00:40
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**3.0**		**0.025**	**0.050**	**% of sample**	1	10/19/2016 14:56

Note: See Qualifiers page for a list of qualifiers and their definitions.

Batch ID: **93237** Instrument ID **GC14** Method: **SW8082**

MBLK Sample ID: **PBLKS1-93237-93237** Units: **µg/Kg** Analysis Date: **10/21/2016 10:17 A**
Client ID: Run ID: **GC14_161020B** SeqNo: **4102702** Prep Date: **10/20/2016** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	U	14	83								
Aroclor 1221	U	14	83								
Aroclor 1232	U	14	83								
Aroclor 1242	U	14	83								
Aroclor 1248	U	14	83								
Aroclor 1254	U	23	83								
Aroclor 1260	U	23	83								
Surr: Decachlorobiphenyl	*30.33*	0	0	*33.3*	0	*91.1*	*40-140*	0			
Surr: Tetrachloro-m-xylene	*28*	0	0	*33.3*	0	*84.1*	*45-124*	0			

LCS Sample ID: **PLCSS1-93237-93237** Units: **µg/Kg** Analysis Date: **10/21/2016 10:34 A**
Client ID: Run ID: **GC14_161020B** SeqNo: **4102703** Prep Date: **10/20/2016** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	924.3	14	83	833	0	111	50-130	0			
Aroclor 1260	930.7	23	83	833	0	112	50-130	0			
Surr: Decachlorobiphenyl	*32.33*	0	0	*33.3*	0	*97.1*	*40-140*	0			
Surr: Tetrachloro-m-xylene	*29*	0	0	*33.3*	0	*87.1*	*45-124*	0			

MS Sample ID: **1610988-19B MS** Units: **µg/Kg** Analysis Date: **10/21/2016 11:09 A**
Client ID: Run ID: **GC14_161020B** SeqNo: **4102705** Prep Date: **10/20/2016** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	825.5	13	79	792.2	0	104	40-140	0			
Aroclor 1260	819.1	21	79	792.2	0	103	40-140	0			
Surr: Decachlorobiphenyl	*26.31*	0	0	*31.67*	0	*83.1*	*40-140*	0			
Surr: Tetrachloro-m-xylene	*25.04*	0	0	*31.67*	0	*79.1*	*45-124*	0			

MSD Sample ID: **1610988-19B MSD** Units: **µg/Kg** Analysis Date: **10/21/2016 11:27 A**
Client ID: Run ID: **GC14_161020B** SeqNo: **4102706** Prep Date: **10/20/2016** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	872.8	14	83	832.2	0	105	40-140	825.5	5.57	50	
Aroclor 1260	859.5	23	83	832.2	0	103	40-140	819.1	4.81	50	
Surr: Decachlorobiphenyl	*29.97*	0	0	*33.27*	0	*90.1*	*40-140*	26.31	*13*	*50*	
Surr: Tetrachloro-m-xylene	*27.64*	0	0	*33.27*	0	*83.1*	*45-124*	25.04	*9.86*	*50*	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: GHD Services Inc.
Work Order: 16101208
Project: Racer Trust SMI 7878-TOI-002416

QC BATCH REPORT

Batch ID: **93237** Instrument ID **GC14** Method: **SW8082**

The following samples were analyzed in this batch:

16101208-01A	16101208-02A	16101208-03A
16101208-04A	16101208-05A	16101208-06A
16101208-07A	16101208-08A	16101208-09A
16101208-10A	16101208-11A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **93243** Instrument ID **GC14** Method: **SW8082**

MBLK Sample ID: **PBLKS1-93243-93243** Units: **µg/Kg** Analysis Date: **10/21/2016 08:52 PM**
Client ID: Run ID: **GC14_161021A** SeqNo: **4105318** Prep Date: **10/20/2016** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	U	14	83								
Aroclor 1221	U	14	83								
Aroclor 1232	U	14	83								
Aroclor 1242	U	14	83								
Aroclor 1248	U	14	83								
Aroclor 1254	U	23	83								
Aroclor 1260	U	23	83								
Surr: Decachlorobiphenyl	*32*	0	0	*33.3*	0	*96.1*	*40-140*	0			
Surr: Tetrachloro-m-xylene	*31*	0	0	*33.3*	0	*93.1*	*45-124*	0			

LCS Sample ID: **PLCSS1-93243-93243** Units: **µg/Kg** Analysis Date: **10/21/2016 09:10 PM**
Client ID: Run ID: **GC14_161021A** SeqNo: **4105319** Prep Date: **10/20/2016** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	943.3	14	83	833	0	113	50-130	0			
Aroclor 1260	926.3	23	83	833	0	111	50-130	0			
Surr: Decachlorobiphenyl	*32.33*	0	0	*33.3*	0	*97.1*	*40-140*	0			
Surr: Tetrachloro-m-xylene	*29.33*	0	0	*33.3*	0	*88.1*	*45-124*	0			

MS Sample ID: **16101208-12A MS** Units: **µg/Kg** Analysis Date: **10/21/2016 10:20 PM**
Client ID: **C-7878-101816-SSH-6340** Run ID: **GC14_161021A** SeqNo: **4105321** Prep Date: **10/20/2016** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	962.2	13	82	815.7	0	118	40-140	0			
Aroclor 1260	21520	22	82	815.7	0	2640	40-140	0			SE
Surr: Decachlorobiphenyl	*28.07*	0	0	*32.61*	0	*86.1*	*40-140*	0			
Surr: Tetrachloro-m-xylene	*28.07*	0	0	*32.61*	0	*86.1*	*45-124*	0			

MSD Sample ID: **16101208-12A MSD** Units: **µg/Kg** Analysis Date: **10/21/2016 10:37 PM**
Client ID: **C-7878-101816-SSH-6340** Run ID: **GC14_161021A** SeqNo: **4105322** Prep Date: **10/20/2016** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	939.2	14	83	827.6	0	113	40-140	962.2	2.42	50	
Aroclor 1260	17790	22	83	827.6	0	2150	40-140	21520	19	50	SE
Surr: Decachlorobiphenyl	*27.49*	0	0	*33.08*	0	*83.1*	*40-140*	28.07	*2.1*	*50*	
Surr: Tetrachloro-m-xylene	*27.16*	0	0	*33.08*	0	*82.1*	*45-124*	28.07	*3.31*	*50*	

The following samples were analyzed in this batch:

16101208-12A	16101208-13A	16101208-14A
16101208-15A	16101208-16A	16101208-17A
16101208-18A	16101208-19A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: GHD Services Inc.
Work Order: 16101208
Project: Racer Trust SMI 7878-TOI-002416

QC BATCH REPORT

Batch ID: **R198587** Instrument ID **MOIST** Method: **SW3550C**

MBLK Sample ID: **WBLKS-R198587** Units: **% of sample** Analysis Date: **10/19/2016 01:36 PM**
Client ID: Run ID: **MOIST_161019A** SeqNo: **4098959** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	U	0.025	0.050								

LCS Sample ID: **LCS-R198587** Units: **% of sample** Analysis Date: **10/19/2016 01:36 PM**
Client ID: Run ID: **MOIST_161019A** SeqNo: **4098958** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	100	0.025	0.050	100	0	100	99.5-100.5	0			

DUP Sample ID: **16101197-06A DUP** Units: **% of sample** Analysis Date: **10/19/2016 01:36 PM**
Client ID: Run ID: **MOIST_161019A** SeqNo: **4098937** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	18.96	0.025	0.050	0	0	0		19.11	0.788	20	

DUP Sample ID: **16101197-10A DUP** Units: **% of sample** Analysis Date: **10/19/2016 01:36 PM**
Client ID: Run ID: **MOIST_161019A** SeqNo: **4098942** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	19.99	0.025	0.050	0	0	0		20.01	0.1	20	

The following samples were analyzed in this batch:

16101208-01A	16101208-02A	16101208-03A
16101208-04A	16101208-05A	16101208-06A
16101208-07A	16101208-08A	16101208-09A
16101208-10A	16101208-11A	16101208-12A
16101208-13A	16101208-14A	16101208-15A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: GHD Services Inc.
Work Order: 16101208
Project: Racer Trust SMI 7878-TOI-002416

QC BATCH REPORT

Batch ID: **R198588** Instrument ID **MOIST** Method: **SW3550C**

MBLK Sample ID: **WBLKS-R198588** Units: **% of sample** Analysis Date: **10/19/2016 02:56 PM**
Client ID: Run ID: **MOIST_161019B** SeqNo: **4098983** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	0.03	0.025	0.050								J

LCS Sample ID: **LCS-R198588** Units: **% of sample** Analysis Date: **10/19/2016 02:56 PM**
Client ID: Run ID: **MOIST_161019B** SeqNo: **4098982** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	100	0.025	0.050	100	0	100	99.5-100.5	0			

DUP Sample ID: **16101140-02B DUP** Units: **% of sample** Analysis Date: **10/19/2016 02:56 PM**
Client ID: Run ID: **MOIST_161019B** SeqNo: **4098972** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	21.07	0.025	0.050	0	0	0		20.02	5.11	20	

DUP Sample ID: **16101140-04B DUP** Units: **% of sample** Analysis Date: **10/19/2016 02:56 PM**
Client ID: Run ID: **MOIST_161019B** SeqNo: **4098975** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	18.9	0.025	0.050	0	0	0		18.51	2.09	20	

The following samples were analyzed in this batch:

16101208-16A
16101208-17A
16101208-18A
16101208-19A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

TestAmerica Michigan
18448 Citation Drive
Suite 200
Brighton, MI 48116
Phone: 810.229.2763 Fax:

Chain of Custody Record

ALS - Holland 163425

16101208

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☒ NPDES ☐ RCRA ☒ Other:

Client Contact	Project Manager: M. Tomka	Site Contact: JE Pardys	Date: 10/18/16	COC No: 163425 163426
Company Name: GHD	Tel/Fax: 519 884 0510	Lab Contact: A. Cosgrove	Carrier: FedEx	1 of 2 COCs
Address: 14496 N Sheldon Rd Ste 200	Analysis Turnaround Time			Sampler: S Hovemeyer
City/State/Zip: Plymouth MI 48170	☒ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 734 453 5123	TAT if different from Below 3 days			Walk-in Client:
Fax:	☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day			Lab Sampling:
Project Name: RoweTrust SMT				Job / SDG No.:
Site: 7878-T01-00246				
PO# SSOW 7878-T01-013				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCB's	Sample Specific Notes:
C-7878-101816-SSH-6332	10/18/16	1105	G	C	1	N	N	X	
-6336		1115	G	C	1	N	N	X	
-6337		1125	G	C	1	N	N	X	
-6334		1135	G	C	1	N	N	X	
-6333		1145	G	C	1	N	N	X	
-6338		1155	G	C	1	N	N	X	
-6331		1205	G	C	1	N	N	X	
-6342		1220	G	C	1	N	N	X	
-6343		1230	G	C	1	N	N	X	
-6341		1240	G	C	1	N	N	X	
-6339		1250	G	C	1	N	N	X	
C-7878-101816-SSH-6340		1300	G	C	1	N	N	X	

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.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: TAT - 3 days

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: 2.8 Corr'd: 2.8	Therm ID No.:
Relinquished by:	Company: GHD	Date/Time: 10/18/16 1660	Received by:	Company: ACS	Date/Time: 10/19/16 0900
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

16109208

TestAmerica Michigan

10448 Citation Drive
Suite 200
Brighton, MI 48116
Phone: 810.229.2763 Fax:

Chain of Custody Record

ALS Holland 163426

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0718)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: M. Temke	Site Contact: JE Pardys	Date: 10/18/16	COC No: 163426, 163425
Company Name: GHD	Tel/Fax: 517 884 0510	Lab Contact: A. Cassar	Carrier: FedEx	2 of 2 COCs
Address:	Analysis Turnaround Time			Sampler: S. Heuvelmeyer
City/State/Zip:	☒ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone:	TAT if different from Below 3 days			Walk-in Client:
Fax:	☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day			Lab Sampling:
Project Name: RacTrust SMI				Job / SDG No.:
Site:				
PO# 5500W 7878-T01-013				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs	Sample Specific Notes:
C-7878-101816-SSH-6321	10/18/16	1310	G	C	1	N	N	X	
-6323		1320	G	C	1	N	N	X	
-6325		1330	G	C	1	N	N	X	
-6324		1340	G	C	1	N	N	X	
-6327		1355	G	C	1	N	N	X	
-6328		1405	G	C	1	N	N	X	
C-7878-101816-SSH-6329		1415	G	C	1	N	N	X	

DS17

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.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: TAT - 3 days

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: 2.8 Corr'd: 3.1	Therm ID No.:
Relinquished by:	Company: GHD	Date/Time: 10/18/16 1600	Received by:	Company: ALS	Date/Time: 10/19/16 0900
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: **GHD - PLYMOUTH** Date/Time Received: **19-Oct-16 09:00**

Work Order: **16101208** Received by: **KRW**

Checklist completed by Keith Wierenga (eSignature) 19-Oct-16 (Date) Reviewed by: Alex Csaszar (eSignature) 19-Oct-16 (Date)

Matrices: Soil

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Sample(s) received on ice?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	2.8/2.8 C	SR2	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	10/19/2016 10:56:28 AM		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

27-Oct-2016

Rawa Fleisher
GHD Services Inc.
14496 Sheldon Road
Suite 200
Plymouth, MI 48170

Re: **Racer Trust SMI 7878-TOI-002416** Work Order: **16101520**

Dear Rawa,

ALS Environmental received 14 samples on 22-Oct-2016 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Sample results are compliant with NELAP standard requirements and QC results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 25.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Alex Csaszar

Electronically approved by: Alex Csaszar

Alex Csaszar
Project Manager

Certificate No: MN 998501

ALS Group USA, Corp

Date: 27-Oct-16

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Work Order: **16101520**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
16101520-01	C-7878-102116-SSH-6345	Concrete		10/21/2016 08:15	10/22/2016 09:30	☐
16101520-02	C-7878-102116-SSH-6346	Concrete		10/21/2016 08:25	10/22/2016 09:30	☐
16101520-03	C-7878-102116-SSH-6347	Concrete		10/21/2016 08:35	10/22/2016 09:30	☐
16101520-04	C-7878-102116-SSH-6348	Concrete		10/21/2016 09:35	10/22/2016 09:30	☐
16101520-05	C-7878-102116-SSH-6349	Concrete		10/21/2016 09:45	10/22/2016 09:30	☐
16101520-06	C-7878-102116-SSH-6350	Concrete		10/21/2016 09:55	10/22/2016 09:30	☐
16101520-07	C-7878-102116-SSH-6351	Concrete		10/21/2016 10:05	10/22/2016 09:30	☐
16101520-08	C-7878-102116-SSH-6352	Concrete		10/21/2016 10:15	10/22/2016 09:30	☐
16101520-09	C-7878-102116-SSH-6353	Concrete		10/21/2016 10:25	10/22/2016 09:30	☐
16101520-10	C-7878-102116-SSH-6354	Concrete		10/21/2016 10:35	10/22/2016 09:30	☐
16101520-11	C-7878-102116-SSH-6355	Concrete		10/21/2016 10:45	10/22/2016 09:30	☐
16101520-12	C-7878-102116-SSH-6356	Concrete		10/21/2016 10:55	10/22/2016 09:30	☐
16101520-13	C-7878-102116-SSH-6357	Concrete		10/21/2016 11:05	10/22/2016 09:30	☐
16101520-14	C-7878-102116-SSH-6358	Concrete		10/21/2016 11:15	10/22/2016 09:30	☐

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Work Order: 16101520

Case Narrative

Samples for the above noted Work Order were received on 10/22/2016. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting.

With the following exceptions, all sample analyses achieved analytical criteria.

Extractable Organics:

No other deviations or anomalies were noted.

Wet Chemistry:

No other deviations or anomalies were noted.

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
WorkOrder: **16101520**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

Units Reported	Description
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight

ALS Group USA, Corp

Date: *27-Oct-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-102116-SSH-6345
Collection Date: 10/21/2016 08:15 AM

Work Order: 16101520
Lab ID: 16101520-01
Matrix: CONCRETE

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**					Analyst: **EB**
Aroclor 1016	U		14	86	µg/Kg-dry	1	10/25/2016 22:38
Aroclor 1221	U		14	86	µg/Kg-dry	1	10/25/2016 22:38
Aroclor 1232	U		14	86	µg/Kg-dry	1	10/25/2016 22:38
Aroclor 1242	U		14	86	µg/Kg-dry	1	10/25/2016 22:38
Aroclor 1248	U		14	86	µg/Kg-dry	1	10/25/2016 22:38
Aroclor 1254	**6,300**		**230**	**860**	**µg/Kg-dry**	10	10/27/2016 01:55
Aroclor 1260	U		23	86	µg/Kg-dry	1	10/25/2016 22:38
Surr: Decachlorobiphenyl	*78.1*			*40-140*	*%REC*	1	10/25/2016 22:38
Surr: Tetrachloro-m-xylene	*85.1*			*45-124*	*%REC*	1	10/25/2016 22:38
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**4.6**		**0.025**	**0.050**	**% of sample**	1	10/25/2016 13:15

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *27-Oct-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-102116-SSH-6346
Collection Date: 10/21/2016 08:25 AM

Work Order: 16101520
Lab ID: 16101520-02
Matrix: CONCRETE

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**					Analyst: **EB**
Aroclor 1016	U		14	83	µg/Kg-dry	1	10/25/2016 22:56
Aroclor 1221	U		14	83	µg/Kg-dry	1	10/25/2016 22:56
Aroclor 1232	U		14	83	µg/Kg-dry	1	10/25/2016 22:56
Aroclor 1242	U		14	83	µg/Kg-dry	1	10/25/2016 22:56
Aroclor 1248	U		14	83	µg/Kg-dry	1	10/25/2016 22:56
Aroclor 1254	**10,000**		**450**	**1,700**	**µg/Kg-dry**	20	10/27/2016 02:13
Aroclor 1260	U		23	83	µg/Kg-dry	1	10/25/2016 22:56
Surr: Decachlorobiphenyl	*79.1*			*40-140*	*%REC*	1	10/25/2016 22:56
Surr: Tetrachloro-m-xylene	*80.1*			*45-124*	*%REC*	1	10/25/2016 22:56
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**2.8**		**0.025**	**0.050**	**% of sample**	1	10/25/2016 13:15

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *27-Oct-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-102116-SSH-6347
Collection Date: 10/21/2016 08:35 AM

Work Order: 16101520
Lab ID: 16101520-03
Matrix: CONCRETE

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**					Analyst: **EB**
Aroclor 1016	U		14	83	µg/Kg-dry	1	10/25/2016 23:13
Aroclor 1221	U		14	83	µg/Kg-dry	1	10/25/2016 23:13
Aroclor 1232	U		14	83	µg/Kg-dry	1	10/25/2016 23:13
Aroclor 1242	U		14	83	µg/Kg-dry	1	10/25/2016 23:13
Aroclor 1248	U		14	83	µg/Kg-dry	1	10/25/2016 23:13
Aroclor 1254	**6,800**		**220**	**830**	**µg/Kg-dry**	10	10/27/2016 02:30
Aroclor 1260	U		22	83	µg/Kg-dry	1	10/25/2016 23:13
Surr: Decachlorobiphenyl	*80.1*			*40-140*	*%REC*	1	10/25/2016 23:13
Surr: Tetrachloro-m-xylene	*79.1*			*45-124*	*%REC*	1	10/25/2016 23:13
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**3.4**		**0.025**	**0.050**	**% of sample**	1	10/25/2016 13:15

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *27-Oct-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-102116-SSH-6348
Collection Date: 10/21/2016 09:35 AM

Work Order: 16101520
Lab ID: 16101520-04
Matrix: CONCRETE

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**					Analyst: **EB**
Aroclor 1016	U		14	85	µg/Kg-dry	1	10/25/2016 23:31
Aroclor 1221	U		14	85	µg/Kg-dry	1	10/25/2016 23:31
Aroclor 1232	U		14	85	µg/Kg-dry	1	10/25/2016 23:31
Aroclor 1242	U		14	85	µg/Kg-dry	1	10/25/2016 23:31
Aroclor 1248	U		14	85	µg/Kg-dry	1	10/25/2016 23:31
Aroclor 1254	**3,200**		**110**	**420**	**µg/Kg-dry**	5	10/27/2016 02:48
Aroclor 1260	U		23	85	µg/Kg-dry	1	10/25/2016 23:31
Surr: Decachlorobiphenyl	*81.1*			*40-140*	*%REC*	1	10/25/2016 23:31
Surr: Tetrachloro-m-xylene	*90.1*			*45-124*	*%REC*	1	10/25/2016 23:31
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**5.3**		**0.025**	**0.050**	**% of sample**	1	10/25/2016 13:15

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *27-Oct-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-102116-SSH-6349
Collection Date: 10/21/2016 09:45 AM

Work Order: 16101520
Lab ID: 16101520-05
Matrix: CONCRETE

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**					Analyst: **EB**
Aroclor 1016	U		14	85	µg/Kg-dry	1	10/25/2016 23:48
Aroclor 1221	U		14	85	µg/Kg-dry	1	10/25/2016 23:48
Aroclor 1232	U		14	85	µg/Kg-dry	1	10/25/2016 23:48
Aroclor 1242	U		14	85	µg/Kg-dry	1	10/25/2016 23:48
Aroclor 1248	U		14	85	µg/Kg-dry	1	10/25/2016 23:48
Aroclor 1254	**7,000**		**230**	**850**	**µg/Kg-dry**	10	10/27/2016 03:06
Aroclor 1260	U		23	85	µg/Kg-dry	1	10/25/2016 23:48
Surr: Decachlorobiphenyl	*63.1*			*40-140*	*%REC*	1	10/25/2016 23:48
Surr: Tetrachloro-m-xylene	*65.1*			*45-124*	*%REC*	1	10/25/2016 23:48
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**3.5**		**0.025**	**0.050**	**% of sample**	1	10/25/2016 13:15

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *27-Oct-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-102116-SSH-6350
Collection Date: 10/21/2016 09:55 AM

Work Order: 16101520
Lab ID: 16101520-06
Matrix: CONCRETE

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**					Analyst: **EB**
Aroclor 1016	U		14	84	µg/Kg-dry	1	10/26/2016 00:06
Aroclor 1221	U		14	84	µg/Kg-dry	1	10/26/2016 00:06
Aroclor 1232	U		14	84	µg/Kg-dry	1	10/26/2016 00:06
Aroclor 1242	**360**		**14**	**84**	**µg/Kg-dry**	1	10/26/2016 00:06
Aroclor 1248	U		14	84	µg/Kg-dry	1	10/26/2016 00:06
Aroclor 1254	**870**		**23**	**84**	**µg/Kg-dry**	1	10/26/2016 00:06
Aroclor 1260	U		23	84	µg/Kg-dry	1	10/26/2016 00:06
Surr: Decachlorobiphenyl	*90.1*			*40-140*	*%REC*	1	10/26/2016 00:06
Surr: Tetrachloro-m-xylene	*97.1*			*45-124*	*%REC*	1	10/26/2016 00:06
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**4.9**		**0.025**	**0.050**	**% of sample**	1	10/25/2016 13:15

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *27-Oct-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-102116-SSH-6351
Collection Date: 10/21/2016 10:05 AM

Work Order: 16101520
Lab ID: 16101520-07
Matrix: CONCRETE

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**					Analyst: **EB**
Aroclor 1016	U		14	88	µg/Kg-dry	1	10/26/2016 00:23
Aroclor 1221	U		14	88	µg/Kg-dry	1	10/26/2016 00:23
Aroclor 1232	U		14	88	µg/Kg-dry	1	10/26/2016 00:23
Aroclor 1242	U		14	88	µg/Kg-dry	1	10/26/2016 00:23
Aroclor 1248	U		14	88	µg/Kg-dry	1	10/26/2016 00:23
Aroclor 1254	**37,000**		**1,200**	**4,400**	**µg/Kg-dry**	50	10/27/2016 03:23
Aroclor 1260	U		24	88	µg/Kg-dry	1	10/26/2016 00:23
Surr: Decachlorobiphenyl	*90.1*			*40-140*	*%REC*	1	10/26/2016 00:23
Surr: Tetrachloro-m-xylene	*101*			*45-124*	*%REC*	1	10/26/2016 00:23
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**5.7**		**0.025**	**0.050**	**% of sample**	1	10/25/2016 13:15

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *27-Oct-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-102116-SSH-6352
Collection Date: 10/21/2016 10:15 AM

Work Order: 16101520
Lab ID: 16101520-08
Matrix: CONCRETE

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**					Analyst: **EB**
Aroclor 1016	U		14	84	µg/Kg-dry	1	10/26/2016 00:41
Aroclor 1221	U		14	84	µg/Kg-dry	1	10/26/2016 00:41
Aroclor 1232	U		14	84	µg/Kg-dry	1	10/26/2016 00:41
Aroclor 1242	U		14	84	µg/Kg-dry	1	10/26/2016 00:41
Aroclor 1248	U		14	84	µg/Kg-dry	1	10/26/2016 00:41
Aroclor 1254	**1,700**		**23**	**84**	**µg/Kg-dry**	1	10/26/2016 00:41
Aroclor 1260	U		23	84	µg/Kg-dry	1	10/26/2016 00:41
Surr: Decachlorobiphenyl	*72.1*			*40-140*	*%REC*	1	10/26/2016 00:41
Surr: Tetrachloro-m-xylene	*90.1*			*45-124*	*%REC*	1	10/26/2016 00:41
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**2.6**		**0.025**	**0.050**	**% of sample**	1	10/25/2016 13:15

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *27-Oct-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-102116-SSH-6353
Collection Date: 10/21/2016 10:25 AM

Work Order: 16101520
Lab ID: 16101520-09
Matrix: CONCRETE

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**					Analyst: **EB**
Aroclor 1016	U		13	81	µg/Kg-dry	1	10/26/2016 00:58
Aroclor 1221	U		13	81	µg/Kg-dry	1	10/26/2016 00:58
Aroclor 1232	U		13	81	µg/Kg-dry	1	10/26/2016 00:58
Aroclor 1242	U		13	81	µg/Kg-dry	1	10/26/2016 00:58
Aroclor 1248	U		13	81	µg/Kg-dry	1	10/26/2016 00:58
Aroclor 1254	**5,900**		**220**	**810**	**µg/Kg-dry**	10	10/27/2016 03:41
Aroclor 1260	U		22	81	µg/Kg-dry	1	10/26/2016 00:58
Surr: Decachlorobiphenyl	*81.1*			*40-140*	*%REC*	1	10/26/2016 00:58
Surr: Tetrachloro-m-xylene	*93.1*			*45-124*	*%REC*	1	10/26/2016 00:58
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**3.1**		**0.025**	**0.050**	**% of sample**	1	10/25/2016 13:15

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *27-Oct-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-102116-SSH-6354
Collection Date: 10/21/2016 10:35 AM

Work Order: 16101520
Lab ID: 16101520-10
Matrix: CONCRETE

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**					Analyst: **EB**
Aroclor 1016	U		12	75	µg/Kg-dry	1	10/26/2016 01:16
Aroclor 1221	U		12	75	µg/Kg-dry	1	10/26/2016 01:16
Aroclor 1232	U		12	75	µg/Kg-dry	1	10/26/2016 01:16
Aroclor 1242	U		12	75	µg/Kg-dry	1	10/26/2016 01:16
Aroclor 1248	U		12	75	µg/Kg-dry	1	10/26/2016 01:16
Aroclor 1254	**7,300**		**200**	**750**	**µg/Kg-dry**	10	10/27/2016 03:58
Aroclor 1260	U		20	75	µg/Kg-dry	1	10/26/2016 01:16
Surr: Decachlorobiphenyl	*85.1*			*40-140*	*%REC*	1	10/26/2016 01:16
Surr: Tetrachloro-m-xylene	*87.1*			*45-124*	*%REC*	1	10/26/2016 01:16
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**0.71**		**0.025**	**0.050**	**% of sample**	1	10/25/2016 14:09

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *27-Oct-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-102116-SSH-6355
Collection Date: 10/21/2016 10:45 AM

Work Order: 16101520
Lab ID: 16101520-11
Matrix: CONCRETE

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**					Analyst: **EB**
Aroclor 1016	U		13	81	µg/Kg-dry	1	10/26/2016 02:08
Aroclor 1221	U		13	81	µg/Kg-dry	1	10/26/2016 02:08
Aroclor 1232	U		13	81	µg/Kg-dry	1	10/26/2016 02:08
Aroclor 1242	U		13	81	µg/Kg-dry	1	10/26/2016 02:08
Aroclor 1248	U		13	81	µg/Kg-dry	1	10/26/2016 02:08
Aroclor 1254	**47,000**		**1,100**	**4,100**	**µg/Kg-dry**	50	10/27/2016 04:16
Aroclor 1260	U		22	81	µg/Kg-dry	1	10/26/2016 02:08
Surr: Decachlorobiphenyl	*87.1*			*40-140*	*%REC*	1	10/26/2016 02:08
Surr: Tetrachloro-m-xylene	*93.1*			*45-124*	*%REC*	1	10/26/2016 02:08
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**2.6**		**0.025**	**0.050**	**% of sample**	1	10/25/2016 14:09

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *27-Oct-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-102116-SSH-6356
Collection Date: 10/21/2016 10:55 AM

Work Order: 16101520
Lab ID: 16101520-12
Matrix: CONCRETE

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**					Analyst: **EB**
Aroclor 1016	U		13	81	µg/Kg-dry	1	10/26/2016 02:26
Aroclor 1221	U		13	81	µg/Kg-dry	1	10/26/2016 02:26
Aroclor 1232	U		13	81	µg/Kg-dry	1	10/26/2016 02:26
Aroclor 1242	U		13	81	µg/Kg-dry	1	10/26/2016 02:26
Aroclor 1248	U		13	81	µg/Kg-dry	1	10/26/2016 02:26
Aroclor 1254	**1,400**		**22**	**81**	**µg/Kg-dry**	1	10/26/2016 02:26
Aroclor 1260	U		22	81	µg/Kg-dry	1	10/26/2016 02:26
Surr: Decachlorobiphenyl	*83.1*			*40-140*	*%REC*	1	10/26/2016 02:26
Surr: Tetrachloro-m-xylene	*92.1*			*45-124*	*%REC*	1	10/26/2016 02:26
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**2.6**		**0.025**	**0.050**	**% of sample**	1	10/25/2016 14:09

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *27-Oct-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-102116-SSH-6357
Collection Date: 10/21/2016 11:05 AM

Work Order: 16101520
Lab ID: 16101520-13
Matrix: CONCRETE

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**					Analyst: **EB**
Aroclor 1016	U		13	81	µg/Kg-dry	1	10/26/2016 02:44
Aroclor 1221	U		13	81	µg/Kg-dry	1	10/26/2016 02:44
Aroclor 1232	U		13	81	µg/Kg-dry	1	10/26/2016 02:44
Aroclor 1242	U		13	81	µg/Kg-dry	1	10/26/2016 02:44
Aroclor 1248	U		13	81	µg/Kg-dry	1	10/26/2016 02:44
Aroclor 1254	**7,500**		**220**	**810**	**µg/Kg-dry**	10	10/27/2016 05:08
Aroclor 1260	U		22	81	µg/Kg-dry	1	10/26/2016 02:44
Surr: Decachlorobiphenyl	*85.1*			*40-140*	*%REC*	1	10/26/2016 02:44
Surr: Tetrachloro-m-xylene	*93.1*			*45-124*	*%REC*	1	10/26/2016 02:44
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**5.7**		**0.025**	**0.050**	**% of sample**	1	10/25/2016 14:09

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *27-Oct-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-102116-SSH-6358
Collection Date: 10/21/2016 11:15 AM

Work Order: 16101520
Lab ID: 16101520-14
Matrix: CONCRETE

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**					Analyst: **EB**
Aroclor 1016	U		14	83	µg/Kg-dry	1	10/26/2016 03:01
Aroclor 1221	U		14	83	µg/Kg-dry	1	10/26/2016 03:01
Aroclor 1232	U		14	83	µg/Kg-dry	1	10/26/2016 03:01
Aroclor 1242	U		14	83	µg/Kg-dry	1	10/26/2016 03:01
Aroclor 1248	U		14	83	µg/Kg-dry	1	10/26/2016 03:01
Aroclor 1254	**12,000**		**450**	**1,700**	**µg/Kg-dry**	20	10/27/2016 05:26
Aroclor 1260	U		23	83	µg/Kg-dry	1	10/26/2016 03:01
Surr: Decachlorobiphenyl	*91.1*			*40-140*	*%REC*	1	10/26/2016 03:01
Surr: Tetrachloro-m-xylene	*92.1*			*45-124*	*%REC*	1	10/26/2016 03:01
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**2.3**		**0.025**	**0.050**	**% of sample**	1	10/25/2016 14:09

Note: See Qualifiers page for a list of qualifiers and their definitions.

Batch ID: **93457A** Instrument ID **GC14** Method: **SW8082**

MBLK Sample ID: **PBLKS1-93457-93457A** Units: **µg/Kg** Analysis Date: **10/25/2016 07:08 PM**

Client ID: Run ID: **GC14_161026A** SeqNo: **4110365** Prep Date: **10/25/2016** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	U	14	83								
Aroclor 1221	U	14	83								
Aroclor 1232	U	14	83								
Aroclor 1242	U	14	83								
Aroclor 1248	U	14	83								
Aroclor 1254	U	23	83								
Aroclor 1260	U	23	83								
Surr: Decachlorobiphenyl	*32.33*	0	0	*33.3*	0	*97.1*	*40-140*	0			
Surr: Tetrachloro-m-xylene	*30.67*	0	0	*33.3*	0	*92.1*	*45-124*	0			

LCS Sample ID: **PLCSS1-93457-93457A** Units: **µg/Kg** Analysis Date: **10/25/2016 07:25 PM**

Client ID: Run ID: **GC14_161026A** SeqNo: **4110366** Prep Date: **10/25/2016** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	946.7	14	83	833	0	114	50-130	0			
Aroclor 1260	909.7	23	83	833	0	109	50-130	0			
Surr: Decachlorobiphenyl	*35.67*	0	0	*33.3*	0	*107*	*40-140*	0			
Surr: Tetrachloro-m-xylene	*33.67*	0	0	*33.3*	0	*101*	*45-124*	0			

MS Sample ID: **16101229-02B MS** Units: **µg/Kg** Analysis Date: **10/25/2016 08:00 PM**

Client ID: Run ID: **GC14_161026A** SeqNo: **4110368** Prep Date: **10/25/2016** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	881.2	13	78	783.4	0	112	40-140	0			
Aroclor 1260	884.6	21	78	783.4	0	113	40-140	0			
Surr: Decachlorobiphenyl	*32.92*	0	0	*31.32*	0	*105*	*40-140*	0			
Surr: Tetrachloro-m-xylene	*27.9*	0	0	*31.32*	0	*89.1*	*45-124*	0			

MSD Sample ID: **16101229-02B MSD** Units: **µg/Kg** Analysis Date: **10/25/2016 08:18 PM**

Client ID: Run ID: **GC14_161026A** SeqNo: **4110369** Prep Date: **10/25/2016** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	899.2	13	79	790.4	0	114	40-140	881.2	2.02	50	
Aroclor 1260	878.9	21	79	790.4	0	111	40-140	884.6	0.648	50	
Surr: Decachlorobiphenyl	*32.26*	0	0	*31.6*	0	*102*	*40-140*	32.92	*2.01*	*50*	
Surr: Tetrachloro-m-xylene	*28.46*	0	0	*31.6*	0	*90.1*	*45-124*	27.9	*2.01*	*50*	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: GHD Services Inc.
Work Order: 16101520
Project: Racer Trust SMI 7878-TOI-002416

QC BATCH REPORT

Batch ID: **93457A** Instrument ID **GC14** Method: **SW8082**

The following samples were analyzed in this batch:

16101520-01A	16101520-02A	16101520-03A
16101520-04A	16101520-05A	16101520-06A
16101520-07A	16101520-08A	16101520-09A
16101520-10A	16101520-11A	16101520-12A
16101520-13A	16101520-14A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: GHD Services Inc.
Work Order: 16101520
Project: Racer Trust SMI 7878-TOI-002416

QC BATCH REPORT

Batch ID: **R199033** Instrument ID **MOIST** Method: **SW3550C**

MBLK Sample ID: **WBLKS-R199033** Units: **% of sample** Analysis Date: **10/25/2016 01:15 PM**
Client ID: Run ID: **MOIST_161025A** SeqNo: **4110586** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	U	0.025	0.050								

LCS Sample ID: **LCS-R199033** Units: **% of sample** Analysis Date: **10/25/2016 01:15 PM**
Client ID: Run ID: **MOIST_161025A** SeqNo: **4110585** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	100	0.025	0.050	100	0	100	99.5-100.5	0			

DUP Sample ID: **16101406-04B DUP** Units: **% of sample** Analysis Date: **10/25/2016 01:15 PM**
Client ID: Run ID: **MOIST_161025A** SeqNo: **4110562** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	8.67	0.025	0.050	0	0	0		8.48	2.22	20	

DUP Sample ID: **16101406-05B DUP** Units: **% of sample** Analysis Date: **10/25/2016 01:15 PM**
Client ID: Run ID: **MOIST_161025A** SeqNo: **4110564** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	10.04	0.025	0.050	0	0	0		9.7	3.44	20	

The following samples were analyzed in this batch:

16101520-01A	16101520-02A	16101520-03A
16101520-04A	16101520-05A	16101520-06A
16101520-07A	16101520-08A	16101520-09A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: GHD Services Inc.
Work Order: 16101520
Project: Racer Trust SMI 7878-TOI-002416

QC BATCH REPORT

Batch ID: **R199036** Instrument ID **MOIST** Method: **SW3550C**

MBLK Sample ID: **WBLKS-R199036** Units: **% of sample** Analysis Date: **10/25/2016 02:09 PM**
Client ID: Run ID: **MOIST_161025B** SeqNo: **4110620** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	0.03	0.025	0.050								J

LCS Sample ID: **LCS-R199036** Units: **% of sample** Analysis Date: **10/25/2016 02:09 PM**
Client ID: Run ID: **MOIST_161025B** SeqNo: **4110619** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	100	0.025	0.050	100	0	100	99.5-100.5	0			

DUP Sample ID: **16101333-04B DUP** Units: **% of sample** Analysis Date: **10/25/2016 02:09 PM**
Client ID: Run ID: **MOIST_161025B** SeqNo: **4110601** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	24.35	0.025	0.050	0	0	0		23.53	3.43	20	

DUP Sample ID: **16101333-06B DUP** Units: **% of sample** Analysis Date: **10/25/2016 02:09 PM**
Client ID: Run ID: **MOIST_161025B** SeqNo: **4110604** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	18.16	0.025	0.050	0	0	0		18.6	2.39	20	

The following samples were analyzed in this batch:

16101520-10A	16101520-11A	16101520-12A
16101520-13A	16101520-14A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

TestAmerica Michigan
18448 Citation Drive,
Suite 200
Brighton, MI 48116
Phone: 810.229.2763 Fax:

Chain of Custody Record

ALS - Holland 163408

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☒ NPDES ☐ RCRA ☐ Other: 16010520

Client Contact	Project Manager: M. Tomka	Site Contact: JE Pardys	Date: 10/21/16	COC No: 163402 163409
Company Name: GHD	Tel/Fax: 519 884 0510	Lab Contact: A. Cesear	Carrier: FedEx	1 of 2 COCs
Address: 14496 N Sheldon Rd Ste 200	Analysis Turnaround Time			Sampler: S. Hoornveld
City/State/Zip: Plymouth, MI 48170	☒ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 734 453 5123	TAT if different from Below: 3 days			Walk-in Client:
Fax:	☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day			Lab Sampling:
Project Name: Pow'rust SMT				Job / SDG No.:
Site: 78DB-Tol-002416				
PO# 5500 117878-Tol-013				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs	Sample Specific Notes:
C-7878-102116-SSH-6345	10/21/16	0815	G	C	1	N	N	X	
-6346		0825	G	C	1	N	N	X	
-6347		0835	G	C	1	N	N	X	
-6348		0935	G	C	1	N	N	X	
-6349		0945	G	C	1	N	N	X	
-6350		0955	G	C	1	N	N	X	
-6351		1005	G	C	1	N	N	X	
-6352		1015	G	C	1	N	N	X	
-6353		1025	G	C	1	N	N	X	
-6354		1035	G	C	1	N	N	X	
-6355		1045	G	C	1	N	N	X	
C-7878-102116-SSH-6356		1055	G	C	1	N	N	X	

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.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:
TAT - 3 days

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:
Relinquished by:	Company: GHD	Date/Time: 10/21/16 1500	Received by:	Company: ALS	Date/Time: 10/22/16 930
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

6.0

TestAmerica Michigan
10448 Citation Drive
Suite 200
Brighton, MI 48116
Phone: 810.229.2763 Fax:

Chain of Custody Record

ALS - Holland : 163409

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
JTAL-8210 (0715)

Regulatory Program: ☐ DW ☐ NPDES ☒ RCRA ☐ Other:

TC01520

Client Contact	Project Manager: M. Temke	Site Contact: JE Portsys	Date: 10/21/16	COC No: 163409 163408
Company Name: GHD	Tel/Fax: 616 884 0510	Lab Contact: A. Cassar	Carrier: FedEx	2 of 2 COCs
Address:	Analysis Turnaround Time			Sampler: S Hovenier
City/State/Zip:	☒ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone:	TAT if different from Below 3 days			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Rail Trust SM1	☐ 1 week			Job / SDG No.:
Site: DB78 - T01 - 002416	☐ 2 days			
PO# 5500 DB78 - T01 - 013	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	PCBs	Sample Specific Notes:
3 C-7878-102116-SSH-16357	10/21/16	1105	G	C	1	N	N	X	
4 C-7878-102116-SSH-16358	10/21/16	1115	G	C	1	N	N	X	

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.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: TAT - 3 days

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:
Relinquished by:	Company: GHD	Date/Time: 10/21/16 1500	Received by:	Company: ALS	Date/Time: 10/22/16 930
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

6.0

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: **GHD - PLYMOUTH** Date/Time Received: **22-Oct-16 09:30**

Work Order: **16101520** Received by: **MBB**

Checklist completed by Meghan Broadbent (eSignature) 22-Oct-16 (Date) Reviewed by: Alex Csaszar (eSignature) 24-Oct-16 (Date)

Matrices: concrete

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Sample(s) received on ice?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	6.0/6.0	SR2	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	10/22/2016 11:08:43 AM		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

03-Nov-2016

Rawa Fleisher
GHD Services Inc.
14496 Sheldon Road
Suite 200
Plymouth, MI 48170

Re: **Racer Trust SMI 7878-TOI-002416** Work Order: **16101936**

Dear Rawa,

ALS Environmental received 8 samples on 29-Oct-2016 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Sample results are compliant with NELAP standard requirements and QC results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 16.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Alex Csaszar

Electronically approved by: Alex Csaszar

Alex Csaszar
Project Manager

Certificate No: MN 998501

ALS Group USA, Corp

Date: 03-Nov-16

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Work Order: **16101936**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
16101936-01	C-7878-102816-SSH-6360	Solid		10/28/2016 08:30	10/29/2016 10:00	☐
16101936-02	C-7878-102816-SSH-6362	Solid		10/28/2016 08:40	10/29/2016 10:00	☐
16101936-03	C-7878-102816-SSH-6363	Solid		10/28/2016 08:50	10/29/2016 10:00	☐
16101936-04	C-7878-102816-SSH-6364	Solid		10/28/2016 09:00	10/29/2016 10:00	☑
16101936-05	C-7878-102816-SSH-6365	Solid		10/28/2016 09:10	10/29/2016 10:00	☐
16101936-06	C-7878-102816-SSH-6366	Solid		10/28/2016 09:20	10/29/2016 10:00	☐
16101936-07	C-7878-102816-SSH-6367	Solid		10/28/2016 09:30	10/29/2016 10:00	☐
16101936-08	C-7878-102816-SSH-6361	Solid		10/28/2016 10:00	10/29/2016 10:00	☐

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Work Order: 16101936

Case Narrative

Samples for the above noted Work Order were received on 10/29/2016. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting.

All sample analyses achieved analytical criteria.

Extractable Organics:

No other deviations or anomalies were noted.

Wet Chemistry:

No other deviations or anomalies were noted.

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
WorkOrder: **16101936**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

Units Reported	Description
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight

ALS Group USA, Corp

Date: *03-Nov-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-102816-SSH-6360
Collection Date: 10/28/2016 08:30 AM

Work Order: 16101936
Lab ID: 16101936-01
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**					Analyst: **EB**
Aroclor 1016	U		15	93	µg/Kg-dry	1	11/2/2016 05:44
Aroclor 1221	U		15	93	µg/Kg-dry	1	11/2/2016 05:44
Aroclor 1232	U		15	93	µg/Kg-dry	1	11/2/2016 05:44
Aroclor 1242	U		15	93	µg/Kg-dry	1	11/2/2016 05:44
Aroclor 1248	U		15	93	µg/Kg-dry	1	11/2/2016 05:44
Aroclor 1254	**28**	J	**25**	**93**	**µg/Kg-dry**	1	11/2/2016 05:44
Aroclor 1260	U		25	93	µg/Kg-dry	1	11/2/2016 05:44
Surr: Decachlorobiphenyl	*94.1*			*40-140*	*%REC*	1	11/2/2016 05:44
Surr: Tetrachloro-m-xylene	*82.1*			*45-124*	*%REC*	1	11/2/2016 05:44
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**6.5**		**0.025**	**0.050**	**% of sample**	1	11/1/2016 13:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *03-Nov-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-102816-SSH-6362
Collection Date: 10/28/2016 08:40 AM

Work Order: 16101936
Lab ID: 16101936-02
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**					Analyst: **EB**
Aroclor 1016	U		14	87	µg/Kg-dry	1	11/2/2016 06:02
Aroclor 1221	U		14	87	µg/Kg-dry	1	11/2/2016 06:02
Aroclor 1232	U		14	87	µg/Kg-dry	1	11/2/2016 06:02
Aroclor 1242	U		14	87	µg/Kg-dry	1	11/2/2016 06:02
Aroclor 1248	U		14	87	µg/Kg-dry	1	11/2/2016 06:02
Aroclor 1254	**600,000**		**24,000**	**87,000**	**µg/Kg-dry**	1000	11/2/2016 16:55
Aroclor 1260	U		24	87	µg/Kg-dry	1	11/2/2016 06:02
Surr: Decachlorobiphenyl	*79.1*			*40-140*	*%REC*	1	11/2/2016 06:02
Surr: Tetrachloro-m-xylene	*77.1*			*45-124*	*%REC*	1	11/2/2016 06:02
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**4.4**		**0.025**	**0.050**	**% of sample**	1	11/1/2016 13:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *03-Nov-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-102816-SSH-6363
Collection Date: 10/28/2016 08:50 AM

Work Order: 16101936
Lab ID: 16101936-03
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**					Analyst: **EB**
Aroclor 1016	U		17	100	µg/Kg-dry	1	11/2/2016 06:19
Aroclor 1221	U		17	100	µg/Kg-dry	1	11/2/2016 06:19
Aroclor 1232	U		17	100	µg/Kg-dry	1	11/2/2016 06:19
Aroclor 1242	U		17	100	µg/Kg-dry	1	11/2/2016 06:19
Aroclor 1248	U		17	100	µg/Kg-dry	1	11/2/2016 06:19
Aroclor 1254	**1,300**		**27**	**100**	**µg/Kg-dry**	1	11/2/2016 06:19
Aroclor 1260	U		27	100	µg/Kg-dry	1	11/2/2016 06:19
Surr: Decachlorobiphenyl	*87.1*			*40-140*	*%REC*	1	11/2/2016 06:19
Surr: Tetrachloro-m-xylene	*87.1*			*45-124*	*%REC*	1	11/2/2016 06:19
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**4.1**		**0.025**	**0.050**	**% of sample**	1	11/1/2016 13:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *03-Nov-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-102816-SSH-6365
Collection Date: 10/28/2016 09:10 AM

Work Order: 16101936
Lab ID: 16101936-05
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**					Analyst: **EB**
Aroclor 1016	U		15	89	µg/Kg-dry	1	11/2/2016 06:37
Aroclor 1221	U		15	89	µg/Kg-dry	1	11/2/2016 06:37
Aroclor 1232	U		15	89	µg/Kg-dry	1	11/2/2016 06:37
Aroclor 1242	U		15	89	µg/Kg-dry	1	11/2/2016 06:37
Aroclor 1248	U		15	89	µg/Kg-dry	1	11/2/2016 06:37
Aroclor 1254	**32,000**		**1,200**	**4,500**	**µg/Kg-dry**	50	11/2/2016 17:12
Aroclor 1260	U		24	89	µg/Kg-dry	1	11/2/2016 06:37
Surr: Decachlorobiphenyl	*71.1*			*40-140*	*%REC*	1	11/2/2016 06:37
Surr: Tetrachloro-m-xylene	*73.1*			*45-124*	*%REC*	1	11/2/2016 06:37
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**2.5**		**0.025**	**0.050**	**% of sample**	1	11/1/2016 13:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *03-Nov-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-102816-SSH-6366
Collection Date: 10/28/2016 09:20 AM

Work Order: 16101936
Lab ID: 16101936-06
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**					Analyst: **EB**
Aroclor 1016	U		15	89	µg/Kg-dry	1	11/2/2016 06:54
Aroclor 1221	U		15	89	µg/Kg-dry	1	11/2/2016 06:54
Aroclor 1232	U		15	89	µg/Kg-dry	1	11/2/2016 06:54
Aroclor 1242	U		15	89	µg/Kg-dry	1	11/2/2016 06:54
Aroclor 1248	U		15	89	µg/Kg-dry	1	11/2/2016 06:54
Aroclor 1254	**1,500**		**24**	**89**	**µg/Kg-dry**	1	11/2/2016 06:54
Aroclor 1260	U		24	89	µg/Kg-dry	1	11/2/2016 06:54
Surr: Decachlorobiphenyl	*78.1*			*40-140*	*%REC*	1	11/2/2016 06:54
Surr: Tetrachloro-m-xylene	*86.1*			*45-124*	*%REC*	1	11/2/2016 06:54
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**5.0**		**0.025**	**0.050**	**% of sample**	1	11/1/2016 13:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *03-Nov-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-102816-SSH-6367
Collection Date: 10/28/2016 09:30 AM

Work Order: 16101936
Lab ID: 16101936-07
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**					Analyst: **EB**
Aroclor 1016	U		16	97	µg/Kg-dry	1	11/2/2016 07:12
Aroclor 1221	U		16	97	µg/Kg-dry	1	11/2/2016 07:12
Aroclor 1232	U		16	97	µg/Kg-dry	1	11/2/2016 07:12
Aroclor 1242	U		16	97	µg/Kg-dry	1	11/2/2016 07:12
Aroclor 1248	U		16	97	µg/Kg-dry	1	11/2/2016 07:12
Aroclor 1254	**5,800**		**260**	**970**	**µg/Kg-dry**	10	11/2/2016 17:30
Aroclor 1260	U		26	97	µg/Kg-dry	1	11/2/2016 07:12
Surr: Decachlorobiphenyl	*73.1*			*40-140*	*%REC*	1	11/2/2016 07:12
Surr: Tetrachloro-m-xylene	*75.1*			*45-124*	*%REC*	1	11/2/2016 07:12
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**3.8**		**0.025**	**0.050**	**% of sample**	1	11/1/2016 13:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *03-Nov-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-102816-SSH-6361
Collection Date: 10/28/2016 10:00 AM

Work Order: 16101936
Lab ID: 16101936-08
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**					Analyst: **EB**
Aroclor 1016	U		14	86	µg/Kg-dry	1	11/2/2016 07:30
Aroclor 1221	U		14	86	µg/Kg-dry	1	11/2/2016 07:30
Aroclor 1232	U		14	86	µg/Kg-dry	1	11/2/2016 07:30
Aroclor 1242	U		14	86	µg/Kg-dry	1	11/2/2016 07:30
Aroclor 1248	U		14	86	µg/Kg-dry	1	11/2/2016 07:30
Aroclor 1254	**11,000**		**470**	**1,700**	**µg/Kg-dry**	20	11/2/2016 18:22
Aroclor 1260	U		23	86	µg/Kg-dry	1	11/2/2016 07:30
Surr: Decachlorobiphenyl	*70.1*			*40-140*	*%REC*	1	11/2/2016 07:30
Surr: Tetrachloro-m-xylene	*71.1*			*45-124*	*%REC*	1	11/2/2016 07:30
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**3.2**		**0.025**	**0.050**	**% of sample**	1	11/1/2016 13:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

Batch ID: **93849A** Instrument ID **GC14** Method: **SW8082**

MBLK Sample ID: **PBLKS1-93849-93849A** Units: **µg/Kg** Analysis Date: **11/2/2016 03:24 AM**
Client ID: Run ID: **GC14_161101A** SeqNo: **4126831** Prep Date: **11/1/2016** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	U	14	83								
Aroclor 1221	U	14	83								
Aroclor 1232	U	14	83								
Aroclor 1242	U	14	83								
Aroclor 1248	U	14	83								
Aroclor 1254	U	23	83								
Aroclor 1260	U	23	83								
Surr: Decachlorobiphenyl	*25.33*	0	0	*33.3*	0	*76.1*	*40-140*	0			
Surr: Tetrachloro-m-xylene	*31.33*	0	0	*33.3*	0	*94.1*	*45-124*	0			

LCS Sample ID: **PLCSS1-93849-93849A** Units: **µg/Kg** Analysis Date: **11/2/2016 03:41 AM**
Client ID: Run ID: **GC14_161101A** SeqNo: **4126832** Prep Date: **11/1/2016** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	944	14	83	833	0	113	50-130	0			
Aroclor 1260	929.3	23	83	833	0	112	50-130	0			
Surr: Decachlorobiphenyl	*29*	0	0	*33.3*	0	*87.1*	*40-140*	0			
Surr: Tetrachloro-m-xylene	*30.67*	0	0	*33.3*	0	*92.1*	*45-124*	0			

MS Sample ID: **16101867-01B MS** Units: **µg/Kg** Analysis Date: **11/2/2016 04:17 AM**
Client ID: Run ID: **GC14_161101A** SeqNo: **4126835** Prep Date: **11/1/2016** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	976.6	13	79	788.8	0	124	40-140	0			
Aroclor 1260	1013	21	79	788.8	0	128	40-140	0			
Surr: Decachlorobiphenyl	*30.3*	0	0	*31.53*	0	*96.1*	*40-140*	0			
Surr: Tetrachloro-m-xylene	*28.09*	0	0	*31.53*	0	*89.1*	*45-124*	0			

MSD Sample ID: **16101867-01B MSD** Units: **µg/Kg** Analysis Date: **11/2/2016 04:34 AM**
Client ID: Run ID: **GC14_161101A** SeqNo: **4126836** Prep Date: **11/1/2016** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	894.2	14	83	827.6	0	108	40-140	976.6	8.81	50	
Aroclor 1260	950.9	22	83	827.6	0	115	40-140	1013	6.29	50	
Surr: Decachlorobiphenyl	*32.46*	0	0	*33.09*	0	*98.1*	*40-140*	30.3	*6.86*	*50*	
Surr: Tetrachloro-m-xylene	*28.81*	0	0	*33.09*	0	*87.1*	*45-124*	28.09	*2.53*	*50*	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: GHD Services Inc.
Work Order: 16101936
Project: Racer Trust SMI 7878-TOI-002416

QC BATCH REPORT

Batch ID: **93849A** Instrument ID **GC14** Method: **SW8082**

The following samples were analyzed in this batch:

16101936-01A	16101936-02A	16101936-03A
16101936-05A	16101936-06A	16101936-07A
16101936-08A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: GHD Services Inc.
Work Order: 16101936
Project: Racer Trust SMI 7878-TOI-002416

QC BATCH REPORT

Batch ID: **R199637** Instrument ID **MOIST** Method: **SW3550C**

MBLK Sample ID: **WBLKS-R199637** Units: **% of sample** Analysis Date: **11/1/2016 01:49 PM**
Client ID: Run ID: **MOIST_161101A** SeqNo: **4127446** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	U	0.025	0.050								

LCS Sample ID: **LCS-R199637** Units: **% of sample** Analysis Date: **11/1/2016 01:49 PM**
Client ID: Run ID: **MOIST_161101A** SeqNo: **4127445** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	100	0.025	0.050	100	0	100	99.5-100.5	0			

DUP Sample ID: **16101939-01B DUP** Units: **% of sample** Analysis Date: **11/1/2016 01:49 PM**
Client ID: Run ID: **MOIST_161101A** SeqNo: **4127434** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	17.22	0.025	0.050	0	0	0		17.26	0.232	20	

DUP Sample ID: **16101939-02B DUP** Units: **% of sample** Analysis Date: **11/1/2016 01:49 PM**
Client ID: Run ID: **MOIST_161101A** SeqNo: **4127436** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	17.03	0.025	0.050	0	0	0		17.37	1.98	20	

The following samples were analyzed in this batch:

16101936-01A	16101936-02A	16101936-03A
16101936-05A	16101936-06A	16101936-07A
16101936-08A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Cincinnati, OH +1 513 733 5336
Everett, WA +1 425 356 2600
Fort Collins, CO +1 970 490 1511
Holland, MI +1 616 399 6070
Houston, TX +1 281 530 5656
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South Charleston, WV +1 304 356 3168
York, PA +1 717 505 5280

ALS Environmental

Chain of Custody Form

Page 1 of 1

COC ID: 28761

ALS Project Manager: A. Csaszar | ALS Work Order #: 1610936

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	RacoTrust SMI	A	PCBs
Work Order	SSOW 7878-T01-013	Project Number	7878-T01-002416	B	
Company Name	GHD	Bill To Company		C	
Send Report To	JE Pardys, R. Fleisher	Invoice Attn		D	
Address	14496 N. Sheldon Rd Ste 200	Address		E	
City/State/Zip	Plymouth, MI 48842	City/State/Zip		F	
Phone	734 453 5723	Phone		G	
Fax		Fax		H	
e-Mail Address		e-Mail Address		I	
				J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	C-7878-102816-SSH-6360	10/28/16	0830	C	8	1	X										
2	-6362		0840	C	8	1	X										
3	-6363		0850	C	8	1	X										
4	-6364		0900	C	8	1	X										X
5	-6365		0910	C	8	1	X										
6	-6366		0920	C	8	1	X										
7	-6367		0930	C	8	1	X										
8	C-7878-102816-SSH-6361		1000	C	8	1	X										
9																	
10																	

Sampler(s) Please Print & Sign: Eric Hvenegaard

Shipment Method: FedEx

Turnaround Time in Business Days (BD): ☐ 10 BD ☐ 5 BD ☒ 3 BD ☐ 2 BD ☐ 1 BD ☐ Other

Results Due Date: TAT - 3 days

Relinquished by:	GHD	Date: 10/28/16	Time: 1500	Received by: FedEx
Relinquished by:	FedEx	Date: 10/29/16	Time: 1000	Received by (Laboratory):
Logged by (Laboratory):		Date: 10/29/16	Time: 1015	Checked by (Laboratory):

Notes:

Cooler ID	Cooler Temp
	3.0°C

QC Package: (Check One Box Below)
☐ Level II Std QC ☐ TRRP Checklist
☒ Level III Std QC/Raw Data ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

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Sample Receipt Checklist

Client Name: **GHD - PLYMOUTH** Date/Time Received: **29-Oct-16 10:00**

Work Order: **16101936** Received by: **KRW**

Checklist completed by Keith Wierenga (eSignature) 29-Oct-16 (Date) Reviewed by: Alex Csaszar (eSignature) 31-Oct-16 (Date)

Matrices: Solid

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Sample(s) received on ice?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	3.0/3.0 C	SR2	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	10/29/2016 10:20:10 AM		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

07-Nov-2016

Rawa Fleisher
GHD Services Inc.
14496 Sheldon Road
Suite 200
Plymouth, MI 48170

Re: **Racer Trust SMI 7878-TOI-002416** Work Order: **1611263**

Dear Rawa,

ALS Environmental received 1 sample on 02-Nov-2016 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Sample results are compliant with NELAP standard requirements and QC results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 9.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Alex Csaszar

Electronically approved by: Alex Csaszar

Alex Csaszar
Project Manager

Certificate No: MN 998501

ALS Group, USA

Date: 07-Nov-16

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Work Order: **1611263**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1611263-01	C-7878-102816-SSH-6364	Concrete		10/28/2016 09:00	11/2/2016 14:00	☐

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Work Order: 1611263

Case Narrative

Samples for the above noted Work Order were received on 11/03/2016. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting.

All sample analyses achieved analytical criteria.

Extractable Organics:

No other deviations or anomalies were noted.

Wet Chemistry:

No other deviations or anomalies were noted.

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
WorkOrder: **1611263**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

Units Reported	Description
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight

ALS Group, USA

Date: *07-Nov-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-102816-SSH-6364
Collection Date: 10/28/2016 09:00 AM

Work Order: 1611263
Lab ID: 1611263-01
Matrix: CONCRETE

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3541 / 11/4/16		Analyst: **EB**
Aroclor 1016	U		14	86	µg/Kg-dry	1	11/5/2016 00:08
Aroclor 1221	U		14	86	µg/Kg-dry	1	11/5/2016 00:08
Aroclor 1232	U		14	86	µg/Kg-dry	1	11/5/2016 00:08
Aroclor 1242	U		14	86	µg/Kg-dry	1	11/5/2016 00:08
Aroclor 1248	U		14	86	µg/Kg-dry	1	11/5/2016 00:08
Aroclor 1254	**440**		**23**	**86**	**µg/Kg-dry**	1	11/5/2016 00:08
Aroclor 1260	U		23	86	µg/Kg-dry	1	11/5/2016 00:08
Surr: Decachlorobiphenyl	*72.1*			*40-140*	*%REC*	1	11/5/2016 00:08
Surr: Tetrachloro-m-xylene	*76.1*			*45-124*	*%REC*	1	11/5/2016 00:08
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**3.9**		**0.025**	**0.050**	**% of sample**	1	11/3/2016 18:02

Note: See Qualifiers page for a list of qualifiers and their definitions.

QC BATCH REPORT

Batch ID: **94039** Instrument ID **GC14** Method: **SW8082**

MBLK Sample ID: **PBLKS1-94039-94039** Units: **µg/Kg** Analysis Date: **11/4/2016 09:13 PM**

Client ID: Run ID: **GC14_161104A** SeqNo: **4136560** Prep Date: **11/4/2016** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	U	14	83								
Aroclor 1221	U	14	83								
Aroclor 1232	U	14	83								
Aroclor 1242	U	14	83								
Aroclor 1248	U	14	83								
Aroclor 1254	U	23	83								
Aroclor 1260	U	23	83								
Surr: Decachlorobiphenyl	*27.67*	0	0	*33.3*	0	*83.1*	*40-140*	0			
Surr: Tetrachloro-m-xylene	*26.33*	0	0	*33.3*	0	*79.1*	*45-124*	0			

LCS Sample ID: **PLCSS1-94039-94039** Units: **µg/Kg** Analysis Date: **11/4/2016 09:30 PM**

Client ID: Run ID: **GC14_161104A** SeqNo: **4136561** Prep Date: **11/4/2016** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	775.7	14	83	833	0	93.1	50-130	0			
Aroclor 1260	790	23	83	833	0	94.8	50-130	0			
Surr: Decachlorobiphenyl	*29*	0	0	*33.3*	0	*87.1*	*40-140*	0			
Surr: Tetrachloro-m-xylene	*25.67*	0	0	*33.3*	0	*77.1*	*45-124*	0			

MS Sample ID: **1611177-02C MS** Units: **µg/Kg** Analysis Date: **11/4/2016 10:06 PM**

Client ID: Run ID: **GC14_161104A** SeqNo: **4136563** Prep Date: **11/4/2016** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	773.2	13	79	789.9	0	97.9	40-140	0			
Aroclor 1260	820.9	21	79	789.9	0	104	40-140	0			
Surr: Decachlorobiphenyl	*26.24*	0	0	*31.58*	0	*83.1*	*40-140*	0			
Surr: Tetrachloro-m-xylene	*23.07*	0	0	*31.58*	0	*73.1*	*45-124*	0			

MSD Sample ID: **1611177-02C MSD** Units: **µg/Kg** Analysis Date: **11/4/2016 10:23 PM**

Client ID: Run ID: **GC14_161104A** SeqNo: **4136564** Prep Date: **11/4/2016** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	802.6	13	80	801.6	0	100	40-140	773.2	3.73	50	
Aroclor 1260	841.7	22	80	801.6	0	105	40-140	820.9	2.51	50	
Surr: Decachlorobiphenyl	*28.23*	0	0	*32.05*	0	*88.1*	*40-140*	26.24	*7.32*	*50*	
Surr: Tetrachloro-m-xylene	*25.02*	0	0	*32.05*	0	*78.1*	*45-124*	23.07	*8.09*	*50*	

The following samples were analyzed in this batch: 1611263-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: GHD Services Inc.
Work Order: 1611263
Project: Racer Trust SMI 7878-TOI-002416

QC BATCH REPORT

Batch ID: **R199837** Instrument ID **MOIST** Method: **SW3550C**

MBLK Sample ID: **WBLKS-R199837** Units: **% of sample** Analysis Date: **11/3/2016 06:02 PM**
Client ID: Run ID: **MOIST_161103D** SeqNo: **4133092** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	0.03	0.025	0.050								J

LCS Sample ID: **LCS-R199837** Units: **% of sample** Analysis Date: **11/3/2016 06:02 PM**
Client ID: Run ID: **MOIST_161103D** SeqNo: **4133091** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	100	0.025	0.050	100	0	100	99.5-100.5	0			

DUP Sample ID: **1611090-02B DUP** Units: **% of sample** Analysis Date: **11/3/2016 06:02 PM**
Client ID: Run ID: **MOIST_161103D** SeqNo: **4133075** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	16.36	0.025	0.050	0	0	0		16.41	0.305	20	

DUP Sample ID: **1611090-04B DUP** Units: **% of sample** Analysis Date: **11/3/2016 06:02 PM**
Client ID: Run ID: **MOIST_161103D** SeqNo: **4133080** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	23.15	0.025	0.050	0	0	0		23.25	0.431	20	

The following samples were analyzed in this batch: 1611263-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Cincinnati, OH +1 513 733 5336
Everett, WA +1 425 356 2600
Fort Collins, CO +1 970 490 1511
Holland, MI +1 616 399 6070
Houston, TX +1 281 530 5656
Middletown, PA +1 717 944 5541
Spring City, PA +1 610 948 4903
Salt Lake City, UT +1 801 266 7700
South Charleston, WV +1 304 356 3168
York, PA +1 717 505 5280

ALS Environmental

Chain of Custody Form

Page 1 of 1

COC ID: 28761

ALS Project Manager: A. Carstrom | ALS Work Order #: 16101936

Customer Information

Purchase Order	
Work Order	SSOW 7678-T01-013
Company Name	GHD
Send Report To	JE Pardys; R. Fleisher
Address	14496 N. Sheldon Rd Ste 200
City/State/Zip	Plymouth, MI 48842
Phone	734 453 5723
Fax	
e-Mail Address	

Project Information

Project Name	RacoTrust SMI
Project Number	7678-T01-002416
Bill To Company	
Invoice Attn	
Address	
City/State/Zip	
Phone	
Fax	
e-Mail Address	

Parameter/Method Request for Analysis

A: PCBs

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	C-7678-102816-SSH-6360	10/28/16	0830	C	8	1	X										
2	-6362		0840	C	8	1	X										
3	-6363		0850	C	8	1	X										
4	-6364		0900	C	8	1	X										X
5	-6365		0910	C	8	1	X										
6	-6366		0920	C	8	1	X										
7	-6367		0930	C	8	1	X										
8	C-7678-102816-SSH-6361		1000	C	8	1	X										
9																	
10																	

Temperature on receipt 11.3+1.6 °C

Sampler(s) Please Print & Sign: Steve Hyzewski, Jeff Pardys

Shipment Method: FedEx

Turnaround Time in Business Days (BD): X 5 BD

Results Due Date: TAT - 3 days

Relinquished by:	Date:	Time:	Received by:
GHD	10/28/16	1500	FedEx
FedEx	10/29/16	1000	
	10/29/16	1015	

Logged by (Laboratory):

Checked by (Laboratory):

Notes:

Cooler ID	Cooler Temp
	3.0°C

QC Package: (Check One Box Below)

- ☐ Level II Std QC
- ☐ Level III Std QC/Raw Data
- ☐ Level IV SW846/CLP
- ☐ Other
- ☐ TRRP Checklist
- ☐ TRRP Level IV

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

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ALS Group, USA

Sample Receipt Checklist

Client Name: **GHD - PLYMOUTH** Date/Time Received: **29-Oct-16 10:00**

Work Order: **16101936** Received by: **KRW**

Checklist completed by Keith Wierenga (eSignature) 29-Oct-16 (Date) Reviewed by: Alex Csaszar (eSignature) 31-Oct-16 (Date)

Matrices: Solid

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Sample(s) received on ice?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	3.0/3.0 C	SR2	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	10/29/2016 10:20:10 AM		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:	-		

Login Notes: Originally logged in under work order 16101936.

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

11-Nov-2016

Rawa Fleisher
GHD Services Inc.
14496 Sheldon Road
Suite 200
Plymouth, MI 48170

Re: **Racer Trust SMI 7878-TOI-002416** Work Order: **1611434**

Dear Rawa,

ALS Environmental received 7 samples on 05-Nov-2016 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Sample results are compliant with NELAP standard requirements and QC results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 15.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Alex Csaszar

Electronically approved by: Alex Csaszar

Alex Csaszar
Project Manager

Certificate No: MN 998501

ALS Group, USA

Date: 11-Nov-16

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Work Order: **1611434**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1611434-01	C-7878-110316-SSH-6367	Concrete		11/3/2016 15:00	11/5/2016 09:30	☐
1611434-02	C-7878-110316-SSH-6368	Concrete		11/3/2016 15:10	11/5/2016 09:30	☐
1611434-03	C-7878-110316-SSH-6369	Concrete		11/3/2016 15:20	11/5/2016 09:30	☐
1611434-04	C-7878-110316-SSH-6370	Concrete		11/3/2016 15:30	11/5/2016 09:30	☐
1611434-05	C-7878-110316-SSH-6371	Concrete		11/3/2016 15:40	11/5/2016 09:30	☐
1611434-06	C-7878-110416-SSH-6372	Concrete		11/4/2016 09:35	11/5/2016 09:30	☐
1611434-07	C-7878-110416-SSH-6373	Concrete		11/4/2016 09:45	11/5/2016 09:30	☐

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
WorkOrder: **1611434**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

Units Reported	Description
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight

ALS Group, USA

Date: *11-Nov-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-110316-SSH-6367
Collection Date: 11/3/2016 03:00 PM

Work Order: 1611434
Lab ID: 1611434-01
Matrix: CONCRETE

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3541 / 11/9/16		Analyst: **EB**
Aroclor 1016	U		14	85	µg/Kg-dry	1	11/9/2016 15:42
Aroclor 1221	U		14	85	µg/Kg-dry	1	11/9/2016 15:42
Aroclor 1232	U		14	85	µg/Kg-dry	1	11/9/2016 15:42
Aroclor 1242	U		14	85	µg/Kg-dry	1	11/9/2016 15:42
Aroclor 1248	U		14	85	µg/Kg-dry	1	11/9/2016 15:42
Aroclor 1254	**9,800**		**460**	**1,700**	**µg/Kg-dry**	20	11/10/2016 18:43
Aroclor 1260	U		23	85	µg/Kg-dry	1	11/9/2016 15:42
Surr: Decachlorobiphenyl	*72.1*			*40-140*	*%REC*	1	11/9/2016 15:42
Surr: Tetrachloro-m-xylene	*77.1*			*45-124*	*%REC*	1	11/9/2016 15:42
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**4.3**		**0.025**	**0.050**	**% of sample**	1	11/8/2016 16:59

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *11-Nov-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-110316-SSH-6368
Collection Date: 11/3/2016 03:10 PM

Work Order: 1611434
Lab ID: 1611434-02
Matrix: CONCRETE

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3541 / 11/9/16		Analyst: **EB**
Aroclor 1016	U		13	79	µg/Kg-dry	1	11/9/2016 16:00
Aroclor 1221	U		13	79	µg/Kg-dry	1	11/9/2016 16:00
Aroclor 1232	U		13	79	µg/Kg-dry	1	11/9/2016 16:00
Aroclor 1242	U		13	79	µg/Kg-dry	1	11/9/2016 16:00
Aroclor 1248	U		13	79	µg/Kg-dry	1	11/9/2016 16:00
Aroclor 1254	**13,000**		**430**	**1,600**	**µg/Kg-dry**	20	11/10/2016 19:01
Aroclor 1260	U		21	79	µg/Kg-dry	1	11/9/2016 16:00
Surr: Decachlorobiphenyl	*71.1*			*40-140*	*%REC*	1	11/9/2016 16:00
Surr: Tetrachloro-m-xylene	*76.1*			*45-124*	*%REC*	1	11/9/2016 16:00
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**2.9**		**0.025**	**0.050**	**% of sample**	1	11/8/2016 16:59

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-110316-SSH-6369
Collection Date: 11/3/2016 03:20 PM

Work Order: 1611434
Lab ID: 1611434-03
Matrix: CONCRETE

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3541 / 11/9/16		Analyst: **EB**
Aroclor 1016	U		13	82	µg/Kg-dry	1	11/9/2016 16:17
Aroclor 1221	U		13	82	µg/Kg-dry	1	11/9/2016 16:17
Aroclor 1232	U		13	82	µg/Kg-dry	1	11/9/2016 16:17
Aroclor 1242	U		13	82	µg/Kg-dry	1	11/9/2016 16:17
Aroclor 1248	U		13	82	µg/Kg-dry	1	11/9/2016 16:17
Aroclor 1254	**1,300**		**22**	**82**	**µg/Kg-dry**	1	11/9/2016 16:17
Aroclor 1260	U		22	82	µg/Kg-dry	1	11/9/2016 16:17
Surr: Decachlorobiphenyl	*78.1*			*40-140*	*%REC*	1	11/9/2016 16:17
Surr: Tetrachloro-m-xylene	*81.1*			*45-124*	*%REC*	1	11/9/2016 16:17
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**2.1**		**0.025**	**0.050**	**% of sample**	1	11/8/2016 16:59

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *11-Nov-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-110316-SSH-6370
Collection Date: 11/3/2016 03:30 PM

Work Order: 1611434
Lab ID: 1611434-04
Matrix: CONCRETE

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3541 / 11/9/16		Analyst: **EB**
Aroclor 1016	U		14	86	µg/Kg-dry	1	11/9/2016 16:35
Aroclor 1221	U		14	86	µg/Kg-dry	1	11/9/2016 16:35
Aroclor 1232	U		14	86	µg/Kg-dry	1	11/9/2016 16:35
Aroclor 1242	U		14	86	µg/Kg-dry	1	11/9/2016 16:35
Aroclor 1248	U		14	86	µg/Kg-dry	1	11/9/2016 16:35
Aroclor 1254	**750**		**23**	**86**	**µg/Kg-dry**	1	11/9/2016 16:35
Aroclor 1260	U		23	86	µg/Kg-dry	1	11/9/2016 16:35
Surr: Decachlorobiphenyl	*81.1*			*40-140*	*%REC*	1	11/9/2016 16:35
Surr: Tetrachloro-m-xylene	*85.1*			*45-124*	*%REC*	1	11/9/2016 16:35
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**6.7**		**0.025**	**0.050**	**% of sample**	1	11/8/2016 16:59

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-110316-SSH-6371
Collection Date: 11/3/2016 03:40 PM

Work Order: 1611434
Lab ID: 1611434-05
Matrix: CONCRETE

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3541 / 11/9/16		Analyst: **EB**
Aroclor 1016	U		14	87	µg/Kg-dry	1	11/9/2016 16:53
Aroclor 1221	U		14	87	µg/Kg-dry	1	11/9/2016 16:53
Aroclor 1232	U		14	87	µg/Kg-dry	1	11/9/2016 16:53
Aroclor 1242	U		14	87	µg/Kg-dry	1	11/9/2016 16:53
Aroclor 1248	U		14	87	µg/Kg-dry	1	11/9/2016 16:53
Aroclor 1254	**1,700**		**24**	**87**	**µg/Kg-dry**	1	11/9/2016 16:53
Aroclor 1260	U		24	87	µg/Kg-dry	1	11/9/2016 16:53
Surr: Decachlorobiphenyl	*74.1*			*40-140*	*%REC*	1	11/9/2016 16:53
Surr: Tetrachloro-m-xylene	*77.1*			*45-124*	*%REC*	1	11/9/2016 16:53
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**4.8**		**0.025**	**0.050**	**% of sample**	1	11/8/2016 16:59

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *11-Nov-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-110416-SSH-6372
Collection Date: 11/4/2016 09:35 AM

Work Order: 1611434
Lab ID: 1611434-06
Matrix: CONCRETE

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3541 / 11/9/16		Analyst: **EB**
Aroclor 1016	U		14	84	µg/Kg-dry	1	11/9/2016 17:45
Aroclor 1221	U		14	84	µg/Kg-dry	1	11/9/2016 17:45
Aroclor 1232	U		14	84	µg/Kg-dry	1	11/9/2016 17:45
Aroclor 1242	U		14	84	µg/Kg-dry	1	11/9/2016 17:45
Aroclor 1248	U		14	84	µg/Kg-dry	1	11/9/2016 17:45
Aroclor 1254	**3,800**		**110**	**420**	**µg/Kg-dry**	5	11/10/2016 19:18
Aroclor 1260	U		23	84	µg/Kg-dry	1	11/9/2016 17:45
Surr: Decachlorobiphenyl	*81.1*			*40-140*	*%REC*	1	11/9/2016 17:45
Surr: Tetrachloro-m-xylene	*74.1*			*45-124*	*%REC*	1	11/9/2016 17:45
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**4.0**		**0.025**	**0.050**	**% of sample**	1	11/8/2016 18:03

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *11-Nov-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-110416-SSH-6373
Collection Date: 11/4/2016 09:45 AM

Work Order: 1611434
Lab ID: 1611434-07
Matrix: CONCRETE

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3541 / 11/9/16		Analyst: **EB**
Aroclor 1016	U		14	87	µg/Kg-dry	1	11/9/2016 18:03
Aroclor 1221	U		14	87	µg/Kg-dry	1	11/9/2016 18:03
Aroclor 1232	U		14	87	µg/Kg-dry	1	11/9/2016 18:03
Aroclor 1242	U		14	87	µg/Kg-dry	1	11/9/2016 18:03
Aroclor 1248	U		14	87	µg/Kg-dry	1	11/9/2016 18:03
Aroclor 1254	**350**		**24**	**87**	**µg/Kg-dry**	1	11/9/2016 18:03
Aroclor 1260	U		24	87	µg/Kg-dry	1	11/9/2016 18:03
Surr: Decachlorobiphenyl	*75.1*			*40-140*	*%REC*	1	11/9/2016 18:03
Surr: Tetrachloro-m-xylene	*84.1*			*45-124*	*%REC*	1	11/9/2016 18:03
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**4.4**		**0.025**	**0.050**	**% of sample**	1	11/8/2016 18:03

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 11-Nov-16

Client: GHD Services Inc.

QC BATCH REPORT

Work Order: 1611434

Project: Racer Trust SMI 7878-TOI-002416

Batch ID: **94269** Instrument ID **GC14** Method: **SW8082**

MBLK Sample ID: **PBLKS1-94269-94269** Units: **µg/Kg** Analysis Date: **11/9/2016 02:15 PM**

Client ID: Run ID: **GC14_161109A** SeqNo: **4144705** Prep Date: **11/9/2016** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	U	14	83	0	0	0	0-0	0			
Aroclor 1221	U	14	83	0	0	0	0-0	0			
Aroclor 1232	U	14	83	0	0	0	0-0	0			
Aroclor 1242	U	14	83	0	0	0	0-0	0			
Aroclor 1248	U	14	83	0	0	0	0-0	0			
Aroclor 1254	U	23	83	0	0	0	0-0	0			
Aroclor 1260	U	23	83	0	0	0	0-0	0			
Surr: Decachlorobiphenyl	*29*	0	0	*33.3*	0	*87.1*	*40-140*	0			
Surr: Tetrachloro-m-xylene	*28.67*	0	0	*33.3*	0	*86.1*	*45-124*	0			

LCS Sample ID: **PLCSS1-94269-94269** Units: **µg/Kg** Analysis Date: **11/9/2016 02:32 PM**

Client ID: Run ID: **GC14_161109A** SeqNo: **4144706** Prep Date: **11/9/2016** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	820	14	83	833	0	98.4	50-130	0			
Aroclor 1260	823.3	23	83	833	0	98.8	50-130	0			
Surr: Decachlorobiphenyl	*31*	0	0	*33.3*	0	*93.1*	*40-140*	0			
Surr: Tetrachloro-m-xylene	*29.33*	0	0	*33.3*	0	*88.1*	*45-124*	0			

MS Sample ID: **1611520-01A MS** Units: **µg/Kg** Analysis Date: **11/9/2016 03:07 PM**

Client ID: Run ID: **GC14_161109A** SeqNo: **4144708** Prep Date: **11/9/2016** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	798.4	13	80	801.6	0	99.6	40-140	0			
Aroclor 1260	3132	22	80	801.6	0	391	40-140	0			S
Surr: Decachlorobiphenyl	*28.55*	0	0	*32.04*	0	*89.1*	*40-140*	0			
Surr: Tetrachloro-m-xylene	*24.7*	0	0	*32.04*	0	*77.1*	*45-124*	0			

MSD Sample ID: **1611520-01A MSD** Units: **µg/Kg** Analysis Date: **11/9/2016 03:25 PM**

Client ID: Run ID: **GC14_161109A** SeqNo: **4144709** Prep Date: **11/9/2016** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	797.6	13	78	784.1	0	102	40-140	798.4	0.0946	50	
Aroclor 1260	3190	21	78	784.1	0	407	40-140	3132	1.85	50	SE
Surr: Decachlorobiphenyl	*28.24*	0	0	*31.35*	0	*90.1*	*40-140*	28.55	*1.08*	*50*	
Surr: Tetrachloro-m-xylene	*24.79*	0	0	*31.35*	0	*79.1*	*45-124*	24.7	*0.363*	*50*	

The following samples were analyzed in this batch:

1611434-01A	1611434-02A	1611434-03A
1611434-04A	1611434-05A	1611434-06A
1611434-07A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: GHD Services Inc.
Work Order: 1611434
Project: Racer Trust SMI 7878-TOI-002416

QC BATCH REPORT

Batch ID: **R200191** Instrument ID **MOIST** Method: **SW3550C**

MBLK Sample ID: **WBLKS-R200191** Units: **% of sample** Analysis Date: **11/8/2016 04:59 PM**
Client ID: Run ID: **MOIST_161108D** SeqNo: **4142234** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	U	0.025	0.050								

LCS Sample ID: **LCS-R200191** Units: **% of sample** Analysis Date: **11/8/2016 04:59 PM**
Client ID: Run ID: **MOIST_161108D** SeqNo: **4142233** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	100	0.025	0.050	100	0	100	99.5-100.5	0			

DUP Sample ID: **1611347-01A DUP** Units: **% of sample** Analysis Date: **11/8/2016 04:59 PM**
Client ID: Run ID: **MOIST_161108D** SeqNo: **4142209** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	21.17	0.025	0.050	0	0	0		20.76	1.96	20	

DUP Sample ID: **1611377-08B DUP** Units: **% of sample** Analysis Date: **11/8/2016 04:59 PM**
Client ID: Run ID: **MOIST_161108D** SeqNo: **4142222** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	12.54	0.025	0.050	0	0	0		12.62	0.636	20	

The following samples were analyzed in this batch:

1611434-01A	1611434-02A	1611434-03A
1611434-04A	1611434-05A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: GHD Services Inc.
Work Order: 1611434
Project: Racer Trust SMI 7878-TOI-002416

QC BATCH REPORT

Batch ID: **R200194** Instrument ID **MOIST** Method: **SW3550C**

MBLK Sample ID: **WBLKS-R200194** Units: **% of sample** Analysis Date: **11/8/2016 06:03 PM**
Client ID: Run ID: **MOIST_161108E** SeqNo: **4142258** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	U	0.025	0.050								

LCS Sample ID: **LCS-R200194** Units: **% of sample** Analysis Date: **11/8/2016 06:03 PM**
Client ID: Run ID: **MOIST_161108E** SeqNo: **4142257** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	100	0.025	0.050	100	0	100	99.5-100.5	0			

DUP Sample ID: **1611467-02B DUP** Units: **% of sample** Analysis Date: **11/8/2016 06:03 PM**
Client ID: Run ID: **MOIST_161108E** SeqNo: **4142254** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	11.89	0.025	0.050	0	0	0		11.97	0.671	20	

DUP Sample ID: **1611467-03B DUP** Units: **% of sample** Analysis Date: **11/8/2016 06:03 PM**
Client ID: Run ID: **MOIST_161108E** SeqNo: **4142256** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	19.71	0.025	0.050	0	0	0		19.85	0.708	20	

The following samples were analyzed in this batch: 1611434-06A 1611434-07A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Cincinnati, OH +1 513 733 5336
Everett, WA +1 425 356 2600
Fort Collins, CO +1 970 490 1511
Holland, MI +1 616 399 6070
Houston, TX +1 281 530 5656
Middletown, PA +1 717 944 5541
Spring City, PA +1 610 948 4903
Salt Lake City, UT +1 801 266 7700
South Charleston, WV +1 304 356 3168
York, PA +1 717 505 5280

ALS Environmental

Chain of Custody Form

Page 1 of 1

COC ID: 28760

ALS Project Manager: A Cosgrove | ALS Work Order #: 16 | 4934

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	RaceTrust SMI	A	PCBs
Work Order	SSOW 7878-TOL-013	Project Number	7878-TOL-002416	B	
Company Name	GHD	Bill To Company		C	
Send Report To	JE Ardys; R. Fleisher	Invoice Attn		D	
Address	14496 N. Sheldon Rd Ste 200	Address		E	
				F	
City/State/Zip	Plymouth, MI 48170	City/State/Zip		G	
Phone	734-453-5123	Phone		H	
Fax		Fax		I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	C-7878-110316-SSH-6367	11/3/16	1500	C	8	1	X										
2	-6368	"	1510	C	8	1	X										
3	-6369	"	1520	C	8	1	X										
4	-6370	"	1530	C	8	1	X										
5	C-7878-110316-SSH-6371	"	1540	C	8	1	X										
6	C-7878-110416-SSH-6372	11/4/16	0935	C	8	1	X										
7	C-7878-110416-SSH-6373	"	0945	C	8	1	X										
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Steve Howemeyer

Shipment Method: FedEx

Turnaround Time in Business Days (BD): ☐ 10 BD ☒ 5 BD ☐ 3 BD ☒ 2 BD ☐ 1 BD ☐ Other

Results Due Date: TAT - 2 days

Relinquished by:	Date:	Time:	Received by:
GHD	11/4/16	1500	FED EX
FED EX	11/5/16	0930	
Logged by (Laboratory): DES	Date: 11/7/16	Time: 1000	Checked by (Laboratory):

Notes:

Cooler ID	Cooler Temp
	4.8 C

QC Package: (Check One Box Below)
☐ Level II Std QC ☐ TRRP Checklist
☐ Level III Std QC/Raw Data ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

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Sample Receipt Checklist

Client Name: **GHD - PLYMOUTH** Date/Time Received: **05-Nov-16 09:30**

Work Order: **1611434** Received by: **DS**

Checklist completed by Diane Shaw (eSignature) 07-Nov-16 (Date) Reviewed by: Alex Csaszar (eSignature) 07-Nov-16 (Date)

Matrices: Concrete

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Sample(s) received on ice?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	4.8/4.8 c	SR2	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	11/7/2016 10:03:39 AM		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

23-Nov-2016

Rawa Fleisher
GHD Services Inc.
14496 Sheldon Road
Suite 200
Plymouth, MI 48170

Re: **Racer Trust SMI 7878-TOI-002416** Work Order: **16111372**

Dear Rawa,

ALS Environmental received 5 samples on 19-Nov-2016 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 11.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Alex Csaszar

Electronically approved by: Alex Csaszar

Alex Csaszar
Project Manager

Certificate No: MN 998501

ADDRESS 3352 128th Ave Holland, Michigan 49424 | PHONE (616) 399-6070 | FAX (616) 399-6185
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ALS Group, USA

Date: 23-Nov-16

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Work Order: **16111372**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
16111372-01	C-7878-111816-SSH-6374	Solid		11/18/2016 09:50	11/19/2016 10:00	☐
16111372-02	C-7878-111816-SSH-6375	Solid		11/18/2016 10:00	11/19/2016 10:00	☑
16111372-03	C-7878-111816-SSH-6376	Solid		11/18/2016 10:10	11/19/2016 10:00	☐
16111372-04	C-7878-111816-SSH-6377	Solid		11/18/2016 10:20	11/19/2016 10:00	☑
16111372-05	C-7878-111816-SSH-6378	Solid		11/18/2016 10:30	11/19/2016 10:00	☑

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Work Order: 16111372

Case Narrative

Samples for the above noted Work Order were received on 11/19/2016. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting. A copy of the laboratory's scope of accreditation is available upon request.

All sample analyses achieved analytical criteria.

Extractable Organics:

No other deviations or anomalies were noted.

Wet Chemistry:

No other deviations or anomalies were noted.

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
WorkOrder: **16111372**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

Units Reported	Description
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight

ALS Group, USA

Date: *23-Nov-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-111816-SSH-6374
Collection Date: 11/18/2016 09:50 AM

Work Order: 16111372
Lab ID: 16111372-01
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method:**SW8082**			Prep: SW3546 / 11/22/16		Analyst: **EB**
Aroclor 1016	U		16	96	µg/Kg-dry	1	11/23/2016 05:34
Aroclor 1221	U		16	96	µg/Kg-dry	1	11/23/2016 05:34
Aroclor 1232	U		16	96	µg/Kg-dry	1	11/23/2016 05:34
Aroclor 1242	U		16	96	µg/Kg-dry	1	11/23/2016 05:34
Aroclor 1248	U		16	96	µg/Kg-dry	1	11/23/2016 05:34
Aroclor 1254	**830**		**26**	**96**	**µg/Kg-dry**	1	11/23/2016 05:34
Aroclor 1260	U		26	96	µg/Kg-dry	1	11/23/2016 05:34
Surr: Decachlorobiphenyl	*70.1*			*40-140*	*%REC*	1	11/23/2016 05:34
Surr: Tetrachloro-m-xylene	*74.1*			*45-124*	*%REC*	1	11/23/2016 05:34
MOISTURE		Method:**SW3550C**					Analyst: **EDL**
Moisture	**1.9**		**0.025**	**0.050**	**% of sample**	1	11/21/2016 13:04

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *23-Nov-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: C-7878-111816-SSH-6376
Collection Date: 11/18/2016 10:10 AM

Work Order: 16111372
Lab ID: 16111372-03
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method:**SW8082**			Prep: SW3546 / 11/22/16		Analyst: **EB**
Aroclor 1016	U		14	84	µg/Kg-dry	1	11/23/2016 05:51
Aroclor 1221	U		14	84	µg/Kg-dry	1	11/23/2016 05:51
Aroclor 1232	U		14	84	µg/Kg-dry	1	11/23/2016 05:51
Aroclor 1242	U		14	84	µg/Kg-dry	1	11/23/2016 05:51
Aroclor 1248	U		14	84	µg/Kg-dry	1	11/23/2016 05:51
Aroclor 1254	**380**		**23**	**84**	**µg/Kg-dry**	1	11/23/2016 05:51
Aroclor 1260	U		23	84	µg/Kg-dry	1	11/23/2016 05:51
Surr: Decachlorobiphenyl	*81.1*			*40-140*	*%REC*	1	11/23/2016 05:51
Surr: Tetrachloro-m-xylene	*84.1*			*45-124*	*%REC*	1	11/23/2016 05:51
MOISTURE		Method:**SW3550C**					Analyst: **EDL**
Moisture	**3.5**		**0.025**	**0.050**	**% of sample**	1	11/21/2016 13:04

Note: See Qualifiers page for a list of qualifiers and their definitions.

QC BATCH REPORT

Batch ID: **94928** Instrument ID **GC14** Method: **SW8082**

MBLK Sample ID: **PBLKS1-94928-94928** Units: **µg/Kg** Analysis Date: **11/23/2016 02:20 AM**

Client ID: Run ID: **GC14_161122A** SeqNo: **4169957** Prep Date: **11/22/2016** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	U	14	83								
Aroclor 1221	U	14	83								
Aroclor 1232	U	14	83								
Aroclor 1242	U	14	83								
Aroclor 1248	U	14	83								
Aroclor 1254	U	23	83								
Aroclor 1260	U	23	83								
Surr: Decachlorobiphenyl	*27*	0	0	*33.3*	0	*81.1*	*40-140*	0			
Surr: Tetrachloro-m-xylene	*25.67*	0	0	*33.3*	0	*77.1*	*45-124*	0			

LCS Sample ID: **PLCSS1-94928-94928** Units: **µg/Kg** Analysis Date: **11/23/2016 02:38 AM**

Client ID: Run ID: **GC14_161122A** SeqNo: **4169958** Prep Date: **11/22/2016** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	703	14	83	833	0	84.4	50-130	0			
Aroclor 1260	722	23	83	833	0	86.7	50-130	0			
Surr: Decachlorobiphenyl	*27.33*	0	0	*33.3*	0	*82.1*	*40-140*	0			
Surr: Tetrachloro-m-xylene	*25.33*	0	0	*33.3*	0	*76.1*	*45-124*	0			

MS Sample ID: **16111077-08A MS** Units: **µg/Kg** Analysis Date: **11/23/2016 03:48 AM**

Client ID: Run ID: **GC14_161122A** SeqNo: **4169960** Prep Date: **11/22/2016** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	700.3	13	79	787.6	0	88.9	40-140	0			
Aroclor 1260	718.9	21	79	787.6	0	91.3	40-140	0			
Surr: Decachlorobiphenyl	*26.79*	0	0	*31.49*	0	*85.1*	*40-140*	0			
Surr: Tetrachloro-m-xylene	*25.53*	0	0	*31.49*	0	*81.1*	*45-124*	0			

MS Sample ID: **16111386-37A MS** Units: **µg/Kg** Analysis Date: **11/23/2016 04:41 AM**

Client ID: Run ID: **GC14_161122A** SeqNo: **4169963** Prep Date: **11/22/2016** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	669.8	14	83	828.6	0	80.8	40-140	0			
Aroclor 1260	689.7	22	83	828.6	0	83.2	40-140	0			
Surr: Decachlorobiphenyl	*25.86*	0	0	*33.13*	0	*78.1*	*40-140*	0			
Surr: Tetrachloro-m-xylene	*23.21*	0	0	*33.13*	0	*70.1*	*45-124*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: GHD Services Inc.
Work Order: 16111372
Project: Racer Trust SMI 7878-TOI-002416

QC BATCH REPORT

Batch ID: **94928** Instrument ID **GC14** Method: **SW8082**

MSD Sample ID: **16111077-08A MSD** Units: **µg/Kg** Analysis Date: **11/23/2016 04:06 AM**
Client ID: Run ID: **GC14_161122A** SeqNo: **4169961** Prep Date: **11/22/2016** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	738.1	13	81	813.3	0	90.8	40-140	700.3	5.26	50	
Aroclor 1260	770.4	22	81	813.3	0	94.7	40-140	718.9	6.91	50	
Surr: Decachlorobiphenyl	*28.97*	0	0	*32.51*	0	*89.1*	*40-140*	26.79	*7.8*	*50*	
Surr: Tetrachloro-m-xylene	*27.01*	0	0	*32.51*	0	*83.1*	*45-124*	25.53	*5.65*	*50*	

MSD Sample ID: **16111386-37A MSD** Units: **µg/Kg** Analysis Date: **11/23/2016 04:58 AM**
Client ID: Run ID: **GC14_161122A** SeqNo: **4169964** Prep Date: **11/22/2016** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	718.5	14	83	827	0	86.9	40-140	669.8	7.01	50	
Aroclor 1260	724.8	22	83	827	0	87.6	40-140	689.7	4.96	50	
Surr: Decachlorobiphenyl	*27.14*	0	0	*33.06*	0	*82.1*	*40-140*	25.86	*4.81*	*50*	
Surr: Tetrachloro-m-xylene	*25.81*	0	0	*33.06*	0	*78.1*	*45-124*	23.21	*10.6*	*50*	

The following samples were analyzed in this batch: 16111372-01A 16111372-03A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: GHD Services Inc.
Work Order: 16111372
Project: Racer Trust SMI 7878-TOI-002416

QC BATCH REPORT

Batch ID: **R201128** Instrument ID **MOIST** Method: **SW3550C**

MBLK Sample ID: **WBLKS-R201128** Units: **% of sample** Analysis Date: **11/21/2016 01:04 PM**
Client ID: Run ID: **MOIST_161121A** SeqNo: **4166474** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	0.03	0.025	0.050								J

LCS Sample ID: **LCS-R201128** Units: **% of sample** Analysis Date: **11/21/2016 01:04 PM**
Client ID: Run ID: **MOIST_161121A** SeqNo: **4166473** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	100	0.025	0.050	100	0	100	99.5-100.5	0			

DUP Sample ID: **16111377-02A DUP** Units: **% of sample** Analysis Date: **11/21/2016 01:04 PM**
Client ID: Run ID: **MOIST_161121A** SeqNo: **4166461** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	17.03	0.025	0.050	0	0	0		15.76	7.75	20	

DUP Sample ID: **16111377-03A DUP** Units: **% of sample** Analysis Date: **11/21/2016 01:04 PM**
Client ID: Run ID: **MOIST_161121A** SeqNo: **4166463** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	18.12	0.025	0.050	0	0	0		15.9	13.1	20	

The following samples were analyzed in this batch: 16111372-01A 16111372-03A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

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Everett, WA +1 425 356 2600 | Holland, MI +1 616 399 6070 | Middletown, PA +1 717 944 5541 | Salt Lake City, UT +1 801 266 7700 | York, PA +1 717 505 5280

Chain of Custody Form

Page 1 of 1

COC ID: 33244

ALS Project Manager: A Casazar | ALS Work Order #: 16111372

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	RaceTrust SMI	A	PCBs
Work Order	SSOW 7B7B-T01-013	Project Number	7B7B-T0L-002416	B	
Company Name	GHD	Bill To Company		C	
Send Report To	JE Pardys; R. Fleisher	Invoice Attn		D	
Address	14496 N. Sheldon Rd Ste 200	Address		E	
				F	
City/State/Zip	Plymouth, MI 48170	City/State/Zip		G	
Phone	734 453 5123	Phone		H	
Fax		Fax		I	
e-Mail Address		e-Mail Address		J	1 day TAT

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	C-7B7B-111816-SSH-6374	11/18/16	0950	C	—	1	X									X	
2	-6375		1000	C	—	1	X									X	
3	-6376		1010	C	—	1	X										
4	-6377		1020	C	—	1	X										
5	C-7B7B-111816-SSH-6378		1030	C	—	1	X										
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Steve Heavenrich

Shipment Method: FedEx

Turnaround Time in Business Days (BD): ☐ 10 BD ☐ 5 BD ☐ 3 BD ☒ 2 BD ☒ 1 BD ☐ Other

Results Due Date: RUSH TAT

Relinquished by:		Date: 11/18/16	Time: 1130	Received by: FEDEX	
Relinquished by:	FEDEX	Date: 11/19/16	Time: 1000	Received by (Laboratory):	
Logged by (Laboratory):	KW	Date: 11/19/16	Time: 1040	Checked by (Laboratory):	

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Notes:

Cooler ID	Cooler Temp
	3.0°C

QC Package: (Check One Box Below)
☐ Level II Std QC ☐ TRRP Checklist
☐ Level III Std QC/Raw Data ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

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ALS Group, USA

Sample Receipt Checklist

Client Name: **GHD - PLYMOUTH** Date/Time Received: **19-Nov-16 10:00**

Work Order: **16111372** Received by: **KRW**

Checklist completed by Keith Wierenga (eSignature) 19-Nov-16 (Date) Reviewed by: Alex Csaszar (eSignature) 23-Nov-16 (Date)

Matrices: Solid

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Sample(s) received on ice?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	3.0/3.0 C	SR2	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	11/19/2016 10:41:56 AM		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:	_		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

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: 240-70468-1
Client Project/Site: 7878, RACER SMI

For:
GHD Services Inc.
14496 Sheldon Road, Suite 200
Plymouth, Michigan 48170

Attn: Rawa Fleisher

Denise D Heckler

Authorized for release by:
10/12/2016 5:29:49 PM

Denise Heckler, Project Manager II
(330)966-9477
denise.heckler@testamericainc.com

LINKS

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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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Case Narrative

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70468-1

Job ID: 240-70468-1

Laboratory: TestAmerica Canton

Narrative

Job Narrative
240-70468-1

Comments
No additional comments.

Receipt
The samples were received on 10/6/2016 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.0º C.

GC Semi VOA
Method(s) 8082A: Two surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: WP-7878-100516-SSH-WP3 (240-70468-3). These results have been reported and qualified.

Method(s) 8082A: 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: WP-7878-100516-SSH-WP1 (240-70468-1). Due to the poor match with the Aroclor standard, there is increased qualitative and quantitative uncertainty associated with this result.

Method(s) 8082A: The following samples 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: WP-7878-100516-SSH-WP5 (240-70468-5) and WP-7878-100516-SSH-WP6 (240-70468-6). Due to the poor match with the Aroclor standard, 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.

Organic Prep
Method(s) 3540C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 240-250598.

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

Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70468-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
X	Surrogate is outside control limits

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
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)

Sample Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70468-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-70468-1	WP-7878-100516-SSH-WP1	Wipe	10/05/16 08:05	10/06/16 09:15
240-70468-2	WP-7878-100516-SSH-WP2	Wipe	10/05/16 08:10	10/06/16 09:15
240-70468-3	WP-7878-100516-SSH-WP3	Wipe	10/05/16 08:15	10/06/16 09:15
240-70468-4	WP-7878-100516-SSH-WP4	Wipe	10/05/16 08:20	10/06/16 09:15
240-70468-5	WP-7878-100516-SSH-WP5	Wipe	10/05/16 08:25	10/06/16 09:15
240-70468-6	WP-7878-100516-SSH-WP6	Wipe	10/05/16 08:30	10/06/16 09:15

Detection Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70468-1

Client Sample ID: WP-7878-100516-SSH-WP1 — Lab Sample ID: 240-70468-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	3.7		2.0	0.50	ug/Wipe	1		8082A	Total/NA
Aroclor-1260	2.8	p	2.0	0.50	ug/Wipe	1		8082A	Total/NA

Client Sample ID: WP-7878-100516-SSH-WP2 — Lab Sample ID: 240-70468-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	3.2	p	2.0	0.50	ug/Wipe	1		8082A	Total/NA

Client Sample ID: WP-7878-100516-SSH-WP3 — Lab Sample ID: 240-70468-3

No Detections.

Client Sample ID: WP-7878-100516-SSH-WP4 — Lab Sample ID: 240-70468-4

No Detections.

Client Sample ID: WP-7878-100516-SSH-WP5 — Lab Sample ID: 240-70468-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	4.9	p	2.0	0.50	ug/Wipe	1		8082A	Total/NA

Client Sample ID: WP-7878-100516-SSH-WP6 — Lab Sample ID: 240-70468-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	3.4		2.0	0.50	ug/Wipe	1		8082A	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70468-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN

Protocol References:

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

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70468-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: WP-7878-100516-SSH-WP1
Date Collected: 10/05/16 08:05
Date Received: 10/06/16 09:15

Lab Sample ID: 240-70468-1
Matrix: Wipe

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2.0	U	2.0	0.50	ug/Wipe		10/10/16 10:09	10/12/16 11:19	1
Aroclor-1221	2.0	U	2.0	0.50	ug/Wipe		10/10/16 10:09	10/12/16 11:19	1
Aroclor-1232	2.0	U	2.0	0.50	ug/Wipe		10/10/16 10:09	10/12/16 11:19	1
Aroclor-1242	2.0	U	2.0	0.50	ug/Wipe		10/10/16 10:09	10/12/16 11:19	1
Aroclor-1248	**3.7**		2.0	0.50	ug/Wipe		10/10/16 10:09	10/12/16 11:19	1
Aroclor-1254	2.0	U	2.0	0.50	ug/Wipe		10/10/16 10:09	10/12/16 11:19	1
Aroclor-1260	**2.8**	**p**	2.0	0.50	ug/Wipe		10/10/16 10:09	10/12/16 11:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*51*		*23 - 133*	*10/10/16 10:09*	*10/12/16 11:19*	*1*
DCB Decachlorobiphenyl	*83*	*p*	*21 - 145*	*10/10/16 10:09*	*10/12/16 11:19*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70468-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: WP-7878-100516-SSH-WP2
Date Collected: 10/05/16 08:10
Date Received: 10/06/16 09:15

Lab Sample ID: 240-70468-2
Matrix: Wipe

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2.0	U	2.0	0.50	ug/Wipe		10/10/16 10:09	10/12/16 11:37	1
Aroclor-1221	2.0	U	2.0	0.50	ug/Wipe		10/10/16 10:09	10/12/16 11:37	1
Aroclor-1232	2.0	U	2.0	0.50	ug/Wipe		10/10/16 10:09	10/12/16 11:37	1
Aroclor-1242	2.0	U	2.0	0.50	ug/Wipe		10/10/16 10:09	10/12/16 11:37	1
Aroclor-1248	2.0	U	2.0	0.50	ug/Wipe		10/10/16 10:09	10/12/16 11:37	1
Aroclor-1254	2.0	U	2.0	0.50	ug/Wipe		10/10/16 10:09	10/12/16 11:37	1
Aroclor-1260	**3.2**	**p**	2.0	0.50	ug/Wipe		10/10/16 10:09	10/12/16 11:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*47*	*p*	*23 - 133*	*10/10/16 10:09*	*10/12/16 11:37*	*1*
DCB Decachlorobiphenyl	*58*	*p*	*21 - 145*	*10/10/16 10:09*	*10/12/16 11:37*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70468-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: WP-7878-100516-SSH-WP3
Date Collected: 10/05/16 08:15
Date Received: 10/06/16 09:15

Lab Sample ID: 240-70468-3
Matrix: Wipe

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2.0	U	2.0	0.50	ug/Wipe		10/10/16 10:09	10/12/16 11:56	1
Aroclor-1221	2.0	U	2.0	0.50	ug/Wipe		10/10/16 10:09	10/12/16 11:56	1
Aroclor-1232	2.0	U	2.0	0.50	ug/Wipe		10/10/16 10:09	10/12/16 11:56	1
Aroclor-1242	2.0	U	2.0	0.50	ug/Wipe		10/10/16 10:09	10/12/16 11:56	1
Aroclor-1248	2.0	U	2.0	0.50	ug/Wipe		10/10/16 10:09	10/12/16 11:56	1
Aroclor-1254	2.0	U	2.0	0.50	ug/Wipe		10/10/16 10:09	10/12/16 11:56	1
Aroclor-1260	2.0	U	2.0	0.50	ug/Wipe		10/10/16 10:09	10/12/16 11:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*15*	*X*	*23 - 133*	*10/10/16 10:09*	*10/12/16 11:56*	*1*
DCB Decachlorobiphenyl	*29*		*21 - 145*	*10/10/16 10:09*	*10/12/16 11:56*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70468-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: WP-7878-100516-SSH-WP4
Date Collected: 10/05/16 08:20
Date Received: 10/06/16 09:15

Lab Sample ID: 240-70468-4
Matrix: Wipe

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2.0	U	2.0	0.50	ug/Wipe		10/10/16 10:09	10/12/16 12:14	1
Aroclor-1221	2.0	U	2.0	0.50	ug/Wipe		10/10/16 10:09	10/12/16 12:14	1
Aroclor-1232	2.0	U	2.0	0.50	ug/Wipe		10/10/16 10:09	10/12/16 12:14	1
Aroclor-1242	2.0	U	2.0	0.50	ug/Wipe		10/10/16 10:09	10/12/16 12:14	1
Aroclor-1248	2.0	U	2.0	0.50	ug/Wipe		10/10/16 10:09	10/12/16 12:14	1
Aroclor-1254	2.0	U	2.0	0.50	ug/Wipe		10/10/16 10:09	10/12/16 12:14	1
Aroclor-1260	2.0	U	2.0	0.50	ug/Wipe		10/10/16 10:09	10/12/16 12:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*62*		*23 - 133*	*10/10/16 10:09*	*10/12/16 12:14*	*1*
DCB Decachlorobiphenyl	*65*		*21 - 145*	*10/10/16 10:09*	*10/12/16 12:14*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70468-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: WP-7878-100516-SSH-WP5
Date Collected: 10/05/16 08:25
Date Received: 10/06/16 09:15

Lab Sample ID: 240-70468-5
Matrix: Wipe

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2.0	U	2.0	0.50	ug/Wipe		10/10/16 10:09	10/12/16 12:32	1
Aroclor-1221	2.0	U	2.0	0.50	ug/Wipe		10/10/16 10:09	10/12/16 12:32	1
Aroclor-1232	2.0	U	2.0	0.50	ug/Wipe		10/10/16 10:09	10/12/16 12:32	1
Aroclor-1242	2.0	U	2.0	0.50	ug/Wipe		10/10/16 10:09	10/12/16 12:32	1
Aroclor-1248	2.0	U	2.0	0.50	ug/Wipe		10/10/16 10:09	10/12/16 12:32	1
Aroclor-1254	**4.9**	**p**	2.0	0.50	ug/Wipe		10/10/16 10:09	10/12/16 12:32	1
Aroclor-1260	2.0	U	2.0	0.50	ug/Wipe		10/10/16 10:09	10/12/16 12:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*23 - 133*	*10/10/16 10:09*	*10/12/16 12:32*	*1*
DCB Decachlorobiphenyl	*63*		*21 - 145*	*10/10/16 10:09*	*10/12/16 12:32*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70468-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: WP-7878-100516-SSH-WP6
Date Collected: 10/05/16 08:30
Date Received: 10/06/16 09:15

Lab Sample ID: 240-70468-6
Matrix: Wipe

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2.0	U	2.0	0.50	ug/Wipe		10/10/16 10:09	10/12/16 12:50	1
Aroclor-1221	2.0	U	2.0	0.50	ug/Wipe		10/10/16 10:09	10/12/16 12:50	1
Aroclor-1232	2.0	U	2.0	0.50	ug/Wipe		10/10/16 10:09	10/12/16 12:50	1
Aroclor-1242	2.0	U	2.0	0.50	ug/Wipe		10/10/16 10:09	10/12/16 12:50	1
Aroclor-1248	2.0	U	2.0	0.50	ug/Wipe		10/10/16 10:09	10/12/16 12:50	1
Aroclor-1254	**3.4**		2.0	0.50	ug/Wipe		10/10/16 10:09	10/12/16 12:50	1
Aroclor-1260	2.0	U	2.0	0.50	ug/Wipe		10/10/16 10:09	10/12/16 12:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*62*		*23 - 133*	*10/10/16 10:09*	*10/12/16 12:50*	*1*
DCB Decachlorobiphenyl	*58*	*p*	*21 - 145*	*10/10/16 10:09*	*10/12/16 12:50*	*1*

QC Association Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70468-1

GC Semi VOA

Prep Batch: 250598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-70468-1	WP-7878-100516-SSH-WP1	Total/NA	Wipe	3540C	
240-70468-2	WP-7878-100516-SSH-WP2	Total/NA	Wipe	3540C	
240-70468-3	WP-7878-100516-SSH-WP3	Total/NA	Wipe	3540C	
240-70468-4	WP-7878-100516-SSH-WP4	Total/NA	Wipe	3540C	
240-70468-5	WP-7878-100516-SSH-WP5	Total/NA	Wipe	3540C	
240-70468-6	WP-7878-100516-SSH-WP6	Total/NA	Wipe	3540C	
MB 240-250598/8-A	Method Blank	Total/NA	Wipe	3540C	
LCS 240-250598/9-A	Lab Control Sample	Total/NA	Wipe	3540C	

Analysis Batch: 250945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-70468-1	WP-7878-100516-SSH-WP1	Total/NA	Wipe	8082A	250598
240-70468-2	WP-7878-100516-SSH-WP2	Total/NA	Wipe	8082A	250598
240-70468-3	WP-7878-100516-SSH-WP3	Total/NA	Wipe	8082A	250598
240-70468-4	WP-7878-100516-SSH-WP4	Total/NA	Wipe	8082A	250598
240-70468-5	WP-7878-100516-SSH-WP5	Total/NA	Wipe	8082A	250598
240-70468-6	WP-7878-100516-SSH-WP6	Total/NA	Wipe	8082A	250598
MB 240-250598/8-A	Method Blank	Total/NA	Wipe	8082A	250598
LCS 240-250598/9-A	Lab Control Sample	Total/NA	Wipe	8082A	250598

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-250598/8-A
Matrix: Wipe
Analysis Batch: 250945

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 250598

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2.0	U	2.0	0.50	ug/Wipe		10/10/16 10:09	10/12/16 10:42	1
Aroclor-1221	2.0	U	2.0	0.50	ug/Wipe		10/10/16 10:09	10/12/16 10:42	1
Aroclor-1232	2.0	U	2.0	0.50	ug/Wipe		10/10/16 10:09	10/12/16 10:42	1
Aroclor-1242	2.0	U	2.0	0.50	ug/Wipe		10/10/16 10:09	10/12/16 10:42	1
Aroclor-1248	2.0	U	2.0	0.50	ug/Wipe		10/10/16 10:09	10/12/16 10:42	1
Aroclor-1254	2.0	U	2.0	0.50	ug/Wipe		10/10/16 10:09	10/12/16 10:42	1
Aroclor-1260	2.0	U	2.0	0.50	ug/Wipe		10/10/16 10:09	10/12/16 10:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*71*		*23 - 133*	*10/10/16 10:09*	*10/12/16 10:42*	*1*
DCB Decachlorobiphenyl	*74*		*21 - 145*	*10/10/16 10:09*	*10/12/16 10:42*	*1*

Lab Sample ID: LCS 240-250598/9-A
Matrix: Wipe
Analysis Batch: 250945

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 250598

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	10.0	6.70		ug/Wipe		67	35 - 128
Aroclor-1260	10.0	7.66		ug/Wipe		77	38 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*76*		*23 - 133*
DCB Decachlorobiphenyl	*75*		*21 - 145*

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70468-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Wipe **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		TCX1	DCB1								
Lab Sample ID	Client Sample ID	(23-133)	(21-145)								
240-70468-1	WP-7878-100516-SSH-WP1	51	83 p								
240-70468-2	WP-7878-100516-SSH-WP2	47 p	58 p								
240-70468-3	WP-7878-100516-SSH-WP3	15 X	29								
240-70468-4	WP-7878-100516-SSH-WP4	62	65								
240-70468-5	WP-7878-100516-SSH-WP5	72	63								
240-70468-6	WP-7878-100516-SSH-WP6	62	58 p								
LCS 240-250598/9-A	Lab Control Sample	76	75								
MB 240-250598/8-A	Method Blank	71	74								

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70468-1

Client Sample ID: WP-7878-100516-SSH-WP1
Lab Sample ID: 240-70468-1
Date Collected: 10/05/16 08:05
Matrix: Wipe
Date Received: 10/06/16 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			250598	10/10/16 10:09	SDE	TAL CAN
Total/NA	Analysis	8082A		1	250945	10/12/16 11:19	CSC	TAL CAN

Client Sample ID: WP-7878-100516-SSH-WP2
Lab Sample ID: 240-70468-2
Date Collected: 10/05/16 08:10
Matrix: Wipe
Date Received: 10/06/16 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			250598	10/10/16 10:09	SDE	TAL CAN
Total/NA	Analysis	8082A		1	250945	10/12/16 11:37	CSC	TAL CAN

Client Sample ID: WP-7878-100516-SSH-WP3
Lab Sample ID: 240-70468-3
Date Collected: 10/05/16 08:15
Matrix: Wipe
Date Received: 10/06/16 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			250598	10/10/16 10:09	SDE	TAL CAN
Total/NA	Analysis	8082A		1	250945	10/12/16 11:56	CSC	TAL CAN

Client Sample ID: WP-7878-100516-SSH-WP4
Lab Sample ID: 240-70468-4
Date Collected: 10/05/16 08:20
Matrix: Wipe
Date Received: 10/06/16 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			250598	10/10/16 10:09	SDE	TAL CAN
Total/NA	Analysis	8082A		1	250945	10/12/16 12:14	CSC	TAL CAN

Client Sample ID: WP-7878-100516-SSH-WP5
Lab Sample ID: 240-70468-5
Date Collected: 10/05/16 08:25
Matrix: Wipe
Date Received: 10/06/16 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			250598	10/10/16 10:09	SDE	TAL CAN
Total/NA	Analysis	8082A		1	250945	10/12/16 12:32	CSC	TAL CAN

Client Sample ID: WP-7878-100516-SSH-WP6
Lab Sample ID: 240-70468-6
Date Collected: 10/05/16 08:30
Matrix: Wipe
Date Received: 10/06/16 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			250598	10/10/16 10:09	SDE	TAL CAN
Total/NA	Analysis	8082A		1	250945	10/12/16 12:50	CSC	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70468-1

Laboratory References:

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

Certification Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-70468-1

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 (WW)	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 Michigan
10448 Citation Drive
Suite 200
Brighton, MI 48116
Phone: 810.229.2763 Fax:

3.6/C4.0

Chain of Custody Record

163840

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other:

Client Contact	Project Manager: M. Tomka	Site Contact: JE Pardys	Date: 10/5/16	COC No: 163840
Company Name: GHD	Tel/Fax: 519 884 0510	Lab Contact: D. Neckers	Carrier: FedEx	1 of 1 COCs
Address: 14496 N. Sheldon Rd Ste 200	Analysis Turnaround Time			Sampler: S. Heisemeyer
City/State/Zip: Plymouth, MI 48170	☒ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 734 453 5123	TAT if different from Below _____			Walk-in Client:
Fax:	☒ 2 weeks			Lab Sampling:
Project Name: RacTrust SMT	☐ 1 week			
Site: SSOW 7878-T01-012	☐ 2 days			Job / SDG No.:
PO # Lab# 24006918	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	PCBs	Sample Specific Notes:
WP-7878-100516-SSH-WP1	10/5/16	0805	G	WP	1	N	N	X	
-WP2		0810	G	WP	1	N	N	X	
-WP3		0815	G	WP	1	N	N	X	
-WP4		0820	G	WP	1	N	N	X	
-WP5		0825	G	WP	1	N	N	X	
WP-7878-100516-SSH-WP6		0830	G	WP	1	N	N	X	

SSH

240-70468 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1, 6 Hexane

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.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.: 960140		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____
Relinquished by:	Company: GHD	Date/Time: 10/5/16 1800	Received by:	Company: TAE	Date/Time: 10/06/16 915
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

TestAmerica Canton Sample Receipt Form/Narrative **Login # :** 70468
Canton Facility

Client GHD Site Name _____ Cooler unpacked by: DSD

Cooler Received on 10/06/16 Opened on 10/06/16

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # _____ Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form
   IR GUN# IR-8 (CF +0.4 °C) Observed Cooler Temp. 3.6 °C Corrected Cooler Temp. 4.0 °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 1	Yes	No
-Were custody seals on the outside of the cooler(s) signed & dated?	Yes	No NA
-Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	No
3. Shippers' packing slip attached to the cooler(s)?	Yes	No
4. Did custody papers accompany the sample(s)?	Yes	No
5. Were the custody papers relinquished & signed in the appropriate place?	Yes	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	No
7. Did all bottles arrive in good condition (Unbroken)?	Yes	No
8. Could all bottle labels be reconciled with the COC?	Yes	No
9. Were correct bottle(s) used for the test(s) indicated?	Yes	No
10. Sufficient quantity received to perform indicated analyses?	Yes	No
11. Are these work share samples?	Yes	No
If yes, Questions 11-15 have been checked at the originating laboratory.		
11. Were sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# **HC574756**
12. Were VOAs on the COC?	Yes	No
13. Were air bubbles >6 mm in any VOA vials?	Yes	No NA
14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____	Yes	No
15. Was a LL Hg or Me Hg trip blank present? _____	Yes	No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by:

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____

Brighton Analytical L.L.C.™
2105 Pless Drive · Brighton, Michigan 48114 · Phone (810) 229-7575 · Fax (810) 229-8650 · E-mail bai-brighton@sbcglobal.net

November 28, 2016

Job Site Services, Inc.
4395 Wilder Rd.
Bay City, MI 48706

Subject: Malleable Iron
16125

Dear Mr. Holdeman :

Thank you for making Brighton Analytical, L.L.C. your laboratory of choice. Attached are the results for the samples submitted on 11/21/2016 for the above mentioned project. NELAP/TNI Accredited Analysis and MDEQ Drinking Water Certified Analysis will be identified in their respective reporting formats. Hard copies can be supplied at your request for a fee of $20.00 per copy.

The invoice for this project will be emailed separately. If you have any questions concerning the data or invoice, please don't hesitate to contact our office. We welcome your comments and suggestions to improve our quality systems. Please reference Brighton Analytical, L.L.C. Project ID 42163 when calling or emailing. We thank you for this opportunity to partner with you on this project and hope to work with you again in the future.

Sincerely,
Brighton Analytical, L.L.C.

DEQ
NELAP ACCREDITED TNI LABORATORY
Certified WBENC Women's Business Enterprise

Brighton Analytical, L.L.C.™

Email: bai-brighton@sbcglobal.net

2105 Pless Drive
Brighton, MI 48114

Phone: 810-229-7575
Fax: 810-229-8650

BA PROJECT #: 421603

PAGE 1 OF 1

ABBREVIATIONS FOR MATRIX
S = Solid
L = Liquid
DW = Drinking H_2O
O = Oil
P = Wipe
A = Air (Tedlar Bag)
F = Filter
T = Tube
M = Misc.

PROJECT NAME: Malleable Iron

PROJECT #: 16125

PO #: (PLEASE NOTE IF DIFFERENT BILLING ADDRESS)

Sample collected by: Tom Holdeman

REQUESTED TURNAROUND: (circle one)
Rush: 1 -3 business days (verify with lab & specify date needed)
1 Day = 2.5X Cost 2 Day = 2X Cost 3 Day = 1.5X Cost
Standard: 5 business days

If RUSH, approved by: _____

Brighton ID #	Sample Description	Sample Coll. Date	Sample Coll. Time	Container Type & Quantity: VOA'S (PRES) Y N N/A	HDPE UNPRESERVED	HDPE HNO_3	HDPE H_2SO_4	HDPE NAOH	AMBER PRESERVED?	GLASS, NO PRESERVATIVE	STERILIZED BACTERIA	MEOH Preserved Y N	Sample Matrix	Analysis Requested/Method: PCBs 8082
1) ~~H954~~	Wipe - 01	11/18/16	1525							1			P	✓
2)														
3)														
4)														
5)														
6)														
7)														
8)														
9)														
10)														

COMPANY/MAILING ADDRESS:
(TB) ~~4395 Wilder Rd~~
Job Site Services, Inc
4395 Wilder Rd, Bay City, MI
ATTN: Tom Holdeman
PHONE: 989-671-3318
FAX OR EMAIL: THOLDEMAN@JSSMI.com

Samples received within hold time? yes ☒ no ☐
Temperature of samples °C:
pHs verified in login? yes ☐ no ☒
Headspace/bubbles in VOA's? yes ☐ no ☐ n/a ☒
Sample containers and COC match? yes ☒ no ☐

Hexane

BILLING ADDRESS (IF REQUIRED):
Same as Above

Drinking H_2O:
Fax to LCHD? yes ☐ no ☐
Chlorinated Water Supply? yes ☐ no ☐
AMT.: _____

MCL Failure: yes ☐ no ☐
Client Notified (date/time/initials): _____

Special Instructions:

Please fill out the Chain of Custody completely and review. Incorrect or incomplete information will result in a "hold" on all analyses.

Trans. #	RELINQUISHED BY:	RECEIVED BY:	DATE:	TIME:	Trans. #	RELINQUISHED BY:	RECEIVED BY:	DATE:	TIME:
1	Tom Holdeman TO UPS 1600 11/18/16	Victures Cheryl	11-21-16	10:30am	3				
2					4				

Brighton Analytical L.L.C.™

Brighton Analytical, L.L.C.
2105 Pless Drive
Brighton, Michigan 48116
Phone: (810) 229-7575 FAX: (810) 229-8650
e-mail: bai-brighton@sbcglobal.net

To: Job Site Services, Inc.
4395 Wilder Rd.
Bay City, MI 48706

Sample Date: 11/18/2016
Submit Date: 11/21/2016
Report Date: 11/28/2016

BA Report Number: **42163**
BA Sample ID: **CE07954**

Project Name: **Malleable Iron**
Project Number: **16125**
Sample ID: **Wipe-01**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
PCB Analysis						
ARO 1016	**Not detected**	ug/Wipe	1.0	SW846 8082A	BY	11/23/2016
ARO 1221	**Not detected**	ug/Wipe	1.0	SW846 8082A	BY	11/23/2016
ARO 1232	**Not detected**	ug/Wipe	1.0	SW846 8082A	BY	11/23/2016
ARO 1242	**Not detected**	ug/Wipe	1.0	SW846 8082A	BY	11/23/2016
ARO 1248	**Not detected**	ug/Wipe	1.0	SW846 8082A	BY	11/23/2016
ARO 1254	**Below det lim**	ug/Wipe	1.0	SW846 8082A	BY	11/23/2016
ARO 1260	**Not detected**	ug/Wipe	1.0	SW846 8082A	BY	11/23/2016
ARO 1262	**Not detected**	ug/Wipe	1.0	SW846 8082A	BY	11/23/2016
ARO 1268	**Not detected**	ug/Wipe	1.0	SW846 8082A	BY	11/23/2016
Total PCB	**Below det lim**	ug/Wipe	1.0	SW846 8082A	BY	11/23/2016
PCB wipes (extraction)	**Extracted**			3510C/3545	MB	11/21/2016

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

Released by: [signature]
Date: 11/28/16

Brighton Analytical L.L.C.

BRIGHTON ANALYTICAL, LLC

QUALITY ASSURANCE/QUALITY CONTROL

REPRESENTATIVE BATCH QUALITY CONTROL

Accuracy & Precision

Analyst: BY **Parameter:** PCB

Analysis Date: 11/23/2016 **Method Reference:** EPA 8082A

Matrix: Soil **Batch:** 11/21/16MB

SPIKE - ACCURACY					
Laboratory ID CE07863	**Spike Conc. (µg/mL)**	**Background (µg/mL)**	**% Recovery**	**Acceptable Range (%)**	**Method Blank Concentration**
DCB (Surrogate)	0.50	ND	79 / 82	60 - 130	76%
Aroclor 1260	1.0	ND	93 / 105	60 - 130	<330 µg/Kg

SPIKE - PRECISION					
Laboratory ID CE07863	**Observed A (µg/mL)**	**Observed B (µg/mL)**	**RPD**	**Acceptable Range**	**LCS % Recovery**
DCB (Surrogate)	0.39	0.41	4.0	≤ 20%	72%
Aroclor 1260	0.93	1.05	11.9	≤ 20%	80%

MISCELLANEOUS		
	Standard ID #	
DCB (Surrogate)	#2462.3	
Aroclor 1260	#2169.4	

COMMENTS: _____

24-Oct-2016

Rawa Fleisher
GHD Services Inc.
14496 Sheldon Road
Suite 200
Plymouth, MI 48170

Re: **Racer Trust SMI 7878-TOI-002416** Work Order: **16101207**

Dear Rawa,

ALS Environmental received 5 samples on 19-Oct-2016 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Sample results are compliant with NELAP standard requirements and QC results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 13.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Alex Csaszar

Electronically approved by: Alex Csaszar

Alex Csaszar
Project Manager

Certificate No: MN 998501

ALS Group USA, Corp

Date: 24-Oct-16

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Work Order: **16101207**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
16101207-01	S-7878-101816-SSH-I27-A	Soil		10/18/2016 15:00	10/19/2016 09:00	☐
16101207-02	S-7878-101816-SSH-I27-B	Soil		10/18/2016 15:10	10/19/2016 09:00	☐
16101207-03	S-7878-101816-SSH-I27-C	Soil		10/18/2016 15:20	10/19/2016 09:00	☐
16101207-04	S-7878-101816-SSH-I27-D	Soil		10/18/2016 15:30	10/19/2016 09:00	☐
16101207-05	S-7878-101816-SSH-I27-E	Soil		10/18/2016 15:40	10/19/2016 09:00	☐

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Work Order: 16101207

Case Narrative

Samples for the above noted Work Order were received on 10/19/2016. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting.

All sample analyses achieved analytical criteria.

Extractable Organics:

No other deviations or anomalies were noted.

Wet Chemistry:

No other deviations or anomalies were noted.

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
WorkOrder: **16101207**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

Units Reported	Description
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight

ALS Group USA, Corp

Date: *24-Oct-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: S-7878-101816-SSH-I27-A
Collection Date: 10/18/2016 03:00 PM

Work Order: 16101207
Lab ID: 16101207-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3546 / 10/19/16		Analyst: **EB**
Aroclor 1016	U		17	100	µg/Kg-dry	1	10/20/2016 06:24
Aroclor 1221	U		17	100	µg/Kg-dry	1	10/20/2016 06:24
Aroclor 1232	U		17	100	µg/Kg-dry	1	10/20/2016 06:24
Aroclor 1242	U		17	100	µg/Kg-dry	1	10/20/2016 06:24
Aroclor 1248	U		17	100	µg/Kg-dry	1	10/20/2016 06:24
Aroclor 1254	**14,000**		**550**	**2,000**	**µg/Kg-dry**	20	10/20/2016 22:52
Aroclor 1260	U		28	100	µg/Kg-dry	1	10/20/2016 06:24
Surr: Decachlorobiphenyl	*78.1*			*40-140*	*%REC*	1	10/20/2016 06:24
Surr: Tetrachloro-m-xylene	*75.1*			*45-124*	*%REC*	1	10/20/2016 06:24
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**23**		**0.025**	**0.050**	**% of sample**	1	10/19/2016 16:33

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *24-Oct-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: S-7878-101816-SSH-I27-B
Collection Date: 10/18/2016 03:10 PM

Work Order: 16101207
Lab ID: 16101207-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3546 / 10/19/16		Analyst: **EB**
Aroclor 1016	U		17	100	µg/Kg-dry	1	10/20/2016 06:42
Aroclor 1221	U		17	100	µg/Kg-dry	1	10/20/2016 06:42
Aroclor 1232	U		17	100	µg/Kg-dry	1	10/20/2016 06:42
Aroclor 1242	U		17	100	µg/Kg-dry	1	10/20/2016 06:42
Aroclor 1248	U		17	100	µg/Kg-dry	1	10/20/2016 06:42
Aroclor 1254	**400,000**		**28,000**	**100,000**	**µg/Kg-dry**	1000	10/21/2016 00:02
Aroclor 1260	U		28	100	µg/Kg-dry	1	10/20/2016 06:42
Surr: Decachlorobiphenyl	*83.1*			*40-140*	*%REC*	1	10/20/2016 06:42
Surr: Tetrachloro-m-xylene	*65.1*			*45-124*	*%REC*	1	10/20/2016 06:42
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**21**		**0.025**	**0.050**	**% of sample**	1	10/19/2016 16:33

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *24-Oct-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: S-7878-101816-SSH-I27-C
Collection Date: 10/18/2016 03:20 PM

Work Order: 16101207
Lab ID: 16101207-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3546 / 10/19/16		Analyst: **EB**
Aroclor 1016	U		27	160	µg/Kg-dry	1	10/20/2016 06:59
Aroclor 1221	U		27	160	µg/Kg-dry	1	10/20/2016 06:59
Aroclor 1232	U		27	160	µg/Kg-dry	1	10/20/2016 06:59
Aroclor 1242	U		27	160	µg/Kg-dry	1	10/20/2016 06:59
Aroclor 1248	U		27	160	µg/Kg-dry	1	10/20/2016 06:59
Aroclor 1254	**50,000**		**2,200**	**8,200**	**µg/Kg-dry**	50	10/21/2016 00:20
Aroclor 1260	U		45	160	µg/Kg-dry	1	10/20/2016 06:59
Surr: Decachlorobiphenyl	*77.1*			*40-140*	*%REC*	1	10/20/2016 06:59
Surr: Tetrachloro-m-xylene	*76.1*			*45-124*	*%REC*	1	10/20/2016 06:59
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**25**		**0.025**	**0.050**	**% of sample**	1	10/19/2016 16:33

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *24-Oct-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: S-7878-101816-SSH-I27-D
Collection Date: 10/18/2016 03:30 PM

Work Order: 16101207
Lab ID: 16101207-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3546 / 10/19/16		Analyst: **EB**
Aroclor 1016	U		16	99	µg/Kg-dry	1	10/20/2016 07:17
Aroclor 1221	U		16	99	µg/Kg-dry	1	10/20/2016 07:17
Aroclor 1232	U		16	99	µg/Kg-dry	1	10/20/2016 07:17
Aroclor 1242	U		16	99	µg/Kg-dry	1	10/20/2016 07:17
Aroclor 1248	U		16	99	µg/Kg-dry	1	10/20/2016 07:17
Aroclor 1254	**40,000**		**1,300**	**5,000**	**µg/Kg-dry**	50	10/21/2016 00:38
Aroclor 1260	U		27	99	µg/Kg-dry	1	10/20/2016 07:17
Surr: Decachlorobiphenyl	*73.1*			*40-140*	*%REC*	1	10/20/2016 07:17
Surr: Tetrachloro-m-xylene	*66.1*			*45-124*	*%REC*	1	10/20/2016 07:17
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**18**		**0.025**	**0.050**	**% of sample**	1	10/19/2016 16:33

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *24-Oct-16*

Client: GHD Services Inc.
Project: Racer Trust SMI 7878-TOI-002416
Sample ID: S-7878-101816-SSH-I27-E
Collection Date: 10/18/2016 03:40 PM

Work Order: 16101207
Lab ID: 16101207-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3546 / 10/19/16		Analyst: **EB**
Aroclor 1016	U		17	100	µg/Kg-dry	1	10/20/2016 07:34
Aroclor 1221	U		17	100	µg/Kg-dry	1	10/20/2016 07:34
Aroclor 1232	U		17	100	µg/Kg-dry	1	10/20/2016 07:34
Aroclor 1242	U		17	100	µg/Kg-dry	1	10/20/2016 07:34
Aroclor 1248	U		17	100	µg/Kg-dry	1	10/20/2016 07:34
Aroclor 1254	**470,000**		**28,000**	**100,000**	**µg/Kg-dry**	1000	10/21/2016 01:13
Aroclor 1260	U		28	100	µg/Kg-dry	1	10/20/2016 07:34
Surr: Decachlorobiphenyl	*87.1*			*40-140*	*%REC*	1	10/20/2016 07:34
Surr: Tetrachloro-m-xylene	*71.1*			*45-124*	*%REC*	1	10/20/2016 07:34
MOISTURE		Method: **SW3550C**					Analyst: **EDL**
Moisture	**15**		**0.025**	**0.050**	**% of sample**	1	10/19/2016 16:33

Note: See Qualifiers page for a list of qualifiers and their definitions.

QC BATCH REPORT

Batch ID: **93161** Instrument ID **GC14** Method: **SW8082**

MBLK Sample ID: **PBLKS1-93161-93161** Units: **µg/Kg** Analysis Date: **10/19/2016 11:41 PM**

Client ID: Run ID: **GC14_161019A** SeqNo: **4099245** Prep Date: **10/19/2016** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	U	14	83								
Aroclor 1221	U	14	83								
Aroclor 1232	U	14	83								
Aroclor 1242	U	14	83								
Aroclor 1248	U	14	83								
Aroclor 1254	U	23	83								
Aroclor 1260	U	23	83								
Surr: Decachlorobiphenyl	*21.67*	0	0	*33.3*	0	*65.1*	*40-140*	0			
Surr: Tetrachloro-m-xylene	*23.33*	0	0	*33.3*	0	*70.1*	*45-124*	0			

LCS Sample ID: **PLCSS1-93161-93161** Units: **µg/Kg** Analysis Date: **10/19/2016 11:58 PM**

Client ID: Run ID: **GC14_161019A** SeqNo: **4099246** Prep Date: **10/19/2016** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	740	14	83	833	0	88.8	50-130	0			
Aroclor 1260	689.7	23	83	833	0	82.8	50-130	0			
Surr: Decachlorobiphenyl	*23.67*	0	0	*33.3*	0	*71.1*	*40-140*	0			
Surr: Tetrachloro-m-xylene	*24*	0	0	*33.3*	0	*72.1*	*45-124*	0			

MS Sample ID: **16101002-05B MS** Units: **µg/Kg** Analysis Date: **10/20/2016 12:33 A**

Client ID: Run ID: **GC14_161019A** SeqNo: **4099248** Prep Date: **10/19/2016** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	764.5	13	81	810.9	0	94.3	40-140	0			
Aroclor 1260	736.3	22	81	810.9	0	90.8	40-140	0			
Surr: Decachlorobiphenyl	*25.64*	0	0	*32.42*	0	*79.1*	*40-140*	0			
Surr: Tetrachloro-m-xylene	*24.66*	0	0	*32.42*	0	*76.1*	*45-124*	0			

MSD Sample ID: **16101002-05B MSD** Units: **µg/Kg** Analysis Date: **10/20/2016 12:51 A**

Client ID: Run ID: **GC14_161019A** SeqNo: **4099249** Prep Date: **10/19/2016** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	799.2	14	83	827	0	96.6	40-140	764.5	4.43	50	
Aroclor 1260	764.8	22	83	827	0	92.5	40-140	736.3	3.79	50	
Surr: Decachlorobiphenyl	*26.81*	0	0	*33.06*	0	*81.1*	*40-140*	25.64	*4.46*	*50*	
Surr: Tetrachloro-m-xylene	*26.14*	0	0	*33.06*	0	*79.1*	*45-124*	24.66	*5.83*	*50*	

The following samples were analyzed in this batch:

16101207-01A	16101207-02A	16101207-03A
16101207-04A	16101207-05A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: GHD Services Inc.
Work Order: 16101207
Project: Racer Trust SMI 7878-TOI-002416

QC BATCH REPORT

Batch ID: **R198589** Instrument ID **MOIST** Method: **SW3550C**

MBLK Sample ID: **WBLKS-R198589** Units: **% of sample** Analysis Date: **10/19/2016 04:33 PM**
Client ID: Run ID: **MOIST_161019C** SeqNo: **4099007** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	U	0.025	0.050								

LCS Sample ID: **LCS-R198589** Units: **% of sample** Analysis Date: **10/19/2016 04:33 PM**
Client ID: Run ID: **MOIST_161019C** SeqNo: **4099006** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	100	0.025	0.050	100	0	100	99.5-100.5	0			

DUP Sample ID: **16101140-07B DUP** Units: **% of sample** Analysis Date: **10/19/2016 04:33 PM**
Client ID: Run ID: **MOIST_161019C** SeqNo: **4098985** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	13.75	0.025	0.050	0	0	0		13.92	1.23	20	

DUP Sample ID: **16101140-08B DUP** Units: **% of sample** Analysis Date: **10/19/2016 04:33 PM**
Client ID: Run ID: **MOIST_161019C** SeqNo: **4098987** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	19.01	0.025	0.050	0	0	0		19.5	2.54	20	

The following samples were analyzed in this batch:

16101207-01A	16101207-02A	16101207-03A
16101207-04A	16101207-05A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

10/10/16

TestAmerica Michigan

10448 Citation Drive
Suite 200
Brighton, MI 48116
Phone: 810.229.2763 Fax:

Chain of Custody Record

ALS - Holland 163427

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0718)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: M Tomlin	Site Contact: JE Pardys	Date: 10/12/16	COC No: 16342
Company Name: GHD	Tel/Fax: 519 884 0510	Lab Contact: A Cescor	Carrier: FedEx	1 of 1 COCs
Address: 14496 N Sheldon Rd Ste 200	Analysis Turnaround Time			Sampler: S Hockemeyer
City/State/Zip: Plymouth MI 48170	☒ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 734 453 5123	TAT if different from Below			Walk-in Client:
Fax:	☒ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day			Lab Sampling:
Project Name: RacerTrust SMI				Job / SDG No.:
Site: 7B78-TOL-002416				
PO# SSOW 7B78-TOL-013				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	PCBs										Sample Specific Notes:
S-7B78-101816-SSH-I27-A	10/18/16	1506	G	S	1	N	N	X										
-B		1510	G	S	1	N	N	X										
-C		1520	G	S	1	N	N	X										
-D		1530	G	S	1	N	N	X										
S-7B78-101816-SSH-I27-E		1540	G	S	1	N	N	X										

SSH

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.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: 2.8 Corr'd: 2.8		Therm ID No.:
Relinquished by:	Company: GHD	Date/Time: 10/18/16 1600	Received by:	Company: ALS	Date/Time: 10/19/16 0900
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: **GHD - PLYMOUTH** Date/Time Received: **19-Oct-16 09:00**

Work Order: **16101207** Received by: **KRW**

Checklist completed by Keith Wierenga (eSignature) 19-Oct-16 (Date) Reviewed by: Alex Csaszar (eSignature) 19-Oct-16 (Date)

Matrices: Soil

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Sample(s) received on ice?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	2.8/2.8 C	SR2	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	10/19/2016 10:50:14 AM		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

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: 240-75057-1
Client Project/Site: 7878, RACER SMI

For:
GHD Services Inc.
14496 Sheldon Road, Suite 200
Plymouth, Michigan 48170

Attn: Rawa Fleisher

Denise D Heckler

Authorized for release by:
2/7/2017 12:00:32 PM

Denise Heckler, Project Manager II
(330)966-9477
denise.heckler@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: 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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Job ID: 240-75057-1

Laboratory: TestAmerica Canton

Narrative

Job Narrative
240-75057-1

Comments
No additional comments.

Receipt
The samples were received on 2/1/2017 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.0º C.

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

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

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

Qualifiers

GC Semi 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.

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
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)

Sample Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-75057-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-75057-1	S-7878-013117-SSH-1017A	Solid	01/31/17 10:25	02/01/17 09:30
240-75057-2	S-7878-013117-SSH-1017B	Solid	01/31/17 10:30	02/01/17 09:30
240-75057-3	S-7878-013117-SSH-1017C	Solid	01/31/17 10:35	02/01/17 09:30
240-75057-4	S-7878-013117-SSH-1019A	Solid	01/31/17 11:15	02/01/17 09:30
240-75057-5	S-7878-013117-SSH-1019B	Solid	01/31/17 11:20	02/01/17 09:30
240-75057-6	S-7878-013117-SSH-1019C	Solid	01/31/17 11:25	02/01/17 09:30
240-75057-7	S-7878-013117-SSH-1022	Solid	01/31/17 13:46	02/01/17 09:30
240-75057-8	S-7878-013117-SSH-1023	Solid	01/31/17 14:55	02/01/17 09:30
240-75057-9	S-7878-013117-SSH-1024	Solid	01/31/17 15:50	02/01/17 09:30
240-75057-10	S-7878-013117-SSH-1025	Solid	01/31/17 16:55	02/01/17 09:30

Detection Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-75057-1

Client Sample ID: S-7878-013117-SSH-1017A — Lab Sample ID: 240-75057-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	21000		580	160	ug/Kg	10	☼	8082	Total/NA

Client Sample ID: S-7878-013117-SSH-1017B — Lab Sample ID: 240-75057-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	510		61	17	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: S-7878-013117-SSH-1017C — Lab Sample ID: 240-75057-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	49	J	63	18	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: S-7878-013117-SSH-1019A — Lab Sample ID: 240-75057-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	39	J	58	16	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: S-7878-013117-SSH-1019B — Lab Sample ID: 240-75057-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	1200		57	16	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: S-7878-013117-SSH-1019C — Lab Sample ID: 240-75057-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	190		55	15	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: S-7878-013117-SSH-1022 — Lab Sample ID: 240-75057-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	390		58	16	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: S-7878-013117-SSH-1023 — Lab Sample ID: 240-75057-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	590		58	16	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: S-7878-013117-SSH-1024 — Lab Sample ID: 240-75057-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	22	J	59	16	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: S-7878-013117-SSH-1025 — Lab Sample ID: 240-75057-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	20	J	57	16	ug/Kg	1	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-75057-1

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
Moisture	Percent Moisture	EPA	TAL CAN

Protocol References:

EPA = US Environmental Protection Agency

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

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-75057-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: S-7878-013117-SSH-1017A
Date Collected: 01/31/17 10:25
Date Received: 02/01/17 09:30

Lab Sample ID: 240-75057-1
Matrix: Solid
Percent Solids: 87.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	580	U	580	280	ug/Kg	☼	02/02/17 07:36	02/03/17 21:10	10
Aroclor-1221	580	U	580	270	ug/Kg	☼	02/02/17 07:36	02/03/17 21:10	10
Aroclor-1232	580	U	580	190	ug/Kg	☼	02/02/17 07:36	02/03/17 21:10	10
Aroclor-1242	580	U	580	230	ug/Kg	☼	02/02/17 07:36	02/03/17 21:10	10
Aroclor-1248	580	U	580	200	ug/Kg	☼	02/02/17 07:36	02/03/17 21:10	10
Aroclor-1254	**21000**		580	160	ug/Kg	☼	02/02/17 07:36	02/03/17 21:10	10
Aroclor-1260	580	U	580	210	ug/Kg	☼	02/02/17 07:36	02/03/17 21:10	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*94*		*14 - 128*	*02/02/17 07:36*	*02/03/17 21:10*	*10*
DCB Decachlorobiphenyl	*95*		*10 - 132*	*02/02/17 07:36*	*02/03/17 21:10*	*10*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-75057-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: S-7878-013117-SSH-1017B
Date Collected: 01/31/17 10:30
Date Received: 02/01/17 09:30

Lab Sample ID: 240-75057-2
Matrix: Solid
Percent Solids: 82.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	61	U	61	29	ug/Kg	☼	02/02/17 07:36	02/03/17 21:29	1
Aroclor-1221	61	U	61	28	ug/Kg	☼	02/02/17 07:36	02/03/17 21:29	1
Aroclor-1232	61	U	61	20	ug/Kg	☼	02/02/17 07:36	02/03/17 21:29	1
Aroclor-1242	61	U	61	24	ug/Kg	☼	02/02/17 07:36	02/03/17 21:29	1
Aroclor-1248	61	U	61	21	ug/Kg	☼	02/02/17 07:36	02/03/17 21:29	1
Aroclor-1254	**510**		61	17	ug/Kg	☼	02/02/17 07:36	02/03/17 21:29	1
Aroclor-1260	61	U	61	22	ug/Kg	☼	02/02/17 07:36	02/03/17 21:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*101*		*14 - 128*	*02/02/17 07:36*	*02/03/17 21:29*	*1*
DCB Decachlorobiphenyl	*96*		*10 - 132*	*02/02/17 07:36*	*02/03/17 21:29*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-75057-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: S-7878-013117-SSH-1017C
Date Collected: 01/31/17 10:35
Date Received: 02/01/17 09:30

Lab Sample ID: 240-75057-3
Matrix: Solid
Percent Solids: 80.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	63	U	63	30	ug/Kg	☼	02/02/17 07:36	02/03/17 21:48	1
Aroclor-1221	63	U	63	29	ug/Kg	☼	02/02/17 07:36	02/03/17 21:48	1
Aroclor-1232	63	U	63	20	ug/Kg	☼	02/02/17 07:36	02/03/17 21:48	1
Aroclor-1242	63	U	63	25	ug/Kg	☼	02/02/17 07:36	02/03/17 21:48	1
Aroclor-1248	63	U	63	21	ug/Kg	☼	02/02/17 07:36	02/03/17 21:48	1
Aroclor-1254	**49**	**J**	63	18	ug/Kg	☼	02/02/17 07:36	02/03/17 21:48	1
Aroclor-1260	63	U	63	23	ug/Kg	☼	02/02/17 07:36	02/03/17 21:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*87*		*14 - 128*	*02/02/17 07:36*	*02/03/17 21:48*	*1*
DCB Decachlorobiphenyl	*87*		*10 - 132*	*02/02/17 07:36*	*02/03/17 21:48*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-75057-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: S-7878-013117-SSH-1019A
Date Collected: 01/31/17 11:15
Date Received: 02/01/17 09:30

Lab Sample ID: 240-75057-4
Matrix: Solid
Percent Solids: 84.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	58	U	58	28	ug/Kg	☼	02/02/17 07:36	02/03/17 22:06	1
Aroclor-1221	58	U	58	27	ug/Kg	☼	02/02/17 07:36	02/03/17 22:06	1
Aroclor-1232	58	U	58	19	ug/Kg	☼	02/02/17 07:36	02/03/17 22:06	1
Aroclor-1242	58	U	58	23	ug/Kg	☼	02/02/17 07:36	02/03/17 22:06	1
Aroclor-1248	58	U	58	20	ug/Kg	☼	02/02/17 07:36	02/03/17 22:06	1
Aroclor-1254	**39**	**J**	58	16	ug/Kg	☼	02/02/17 07:36	02/03/17 22:06	1
Aroclor-1260	58	U	58	21	ug/Kg	☼	02/02/17 07:36	02/03/17 22:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*90*		*14 - 128*	*02/02/17 07:36*	*02/03/17 22:06*	*1*
DCB Decachlorobiphenyl	*87*		*10 - 132*	*02/02/17 07:36*	*02/03/17 22:06*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-75057-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: S-7878-013117-SSH-1019B
Date Collected: 01/31/17 11:20
Date Received: 02/01/17 09:30

Lab Sample ID: 240-75057-5
Matrix: Solid
Percent Solids: 86.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	57	U	57	27	ug/Kg	☼	02/02/17 07:36	02/03/17 22:25	1
Aroclor-1221	57	U	57	26	ug/Kg	☼	02/02/17 07:36	02/03/17 22:25	1
Aroclor-1232	57	U	57	18	ug/Kg	☼	02/02/17 07:36	02/03/17 22:25	1
Aroclor-1242	57	U	57	23	ug/Kg	☼	02/02/17 07:36	02/03/17 22:25	1
Aroclor-1248	57	U	57	19	ug/Kg	☼	02/02/17 07:36	02/03/17 22:25	1
Aroclor-1254	**1200**		57	16	ug/Kg	☼	02/02/17 07:36	02/03/17 22:25	1
Aroclor-1260	57	U	57	21	ug/Kg	☼	02/02/17 07:36	02/03/17 22:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*97*		*14 - 128*	*02/02/17 07:36*	*02/03/17 22:25*	*1*
DCB Decachlorobiphenyl	*94*		*10 - 132*	*02/02/17 07:36*	*02/03/17 22:25*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-75057-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: S-7878-013117-SSH-1019C
Date Collected: 01/31/17 11:25
Date Received: 02/01/17 09:30

Lab Sample ID: 240-75057-6
Matrix: Solid
Percent Solids: 89.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	55	U	55	26	ug/Kg	☼	02/02/17 07:36	02/03/17 23:40	1
Aroclor-1221	55	U	55	25	ug/Kg	☼	02/02/17 07:36	02/03/17 23:40	1
Aroclor-1232	55	U	55	18	ug/Kg	☼	02/02/17 07:36	02/03/17 23:40	1
Aroclor-1242	55	U	55	22	ug/Kg	☼	02/02/17 07:36	02/03/17 23:40	1
Aroclor-1248	55	U	55	19	ug/Kg	☼	02/02/17 07:36	02/03/17 23:40	1
Aroclor-1254	**190**		55	15	ug/Kg	☼	02/02/17 07:36	02/03/17 23:40	1
Aroclor-1260	55	U	55	20	ug/Kg	☼	02/02/17 07:36	02/03/17 23:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*92*		*14 - 128*	*02/02/17 07:36*	*02/03/17 23:40*	*1*
DCB Decachlorobiphenyl	*95*		*10 - 132*	*02/02/17 07:36*	*02/03/17 23:40*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-75057-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: S-7878-013117-SSH-1022
Date Collected: 01/31/17 13:46
Date Received: 02/01/17 09:30

Lab Sample ID: 240-75057-7
Matrix: Solid
Percent Solids: 86.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	58	U	58	28	ug/Kg	☼	02/02/17 07:36	02/03/17 23:59	1
Aroclor-1221	58	U	58	27	ug/Kg	☼	02/02/17 07:36	02/03/17 23:59	1
Aroclor-1232	58	U	58	19	ug/Kg	☼	02/02/17 07:36	02/03/17 23:59	1
Aroclor-1242	58	U	58	23	ug/Kg	☼	02/02/17 07:36	02/03/17 23:59	1
Aroclor-1248	58	U	58	20	ug/Kg	☼	02/02/17 07:36	02/03/17 23:59	1
Aroclor-1254	**390**		58	16	ug/Kg	☼	02/02/17 07:36	02/03/17 23:59	1
Aroclor-1260	58	U	58	21	ug/Kg	☼	02/02/17 07:36	02/03/17 23:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*82*		*14 - 128*	*02/02/17 07:36*	*02/03/17 23:59*	*1*
DCB Decachlorobiphenyl	*89*		*10 - 132*	*02/02/17 07:36*	*02/03/17 23:59*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-75057-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: S-7878-013117-SSH-1023
Date Collected: 01/31/17 14:55
Date Received: 02/01/17 09:30

Lab Sample ID: 240-75057-8
Matrix: Solid
Percent Solids: 86.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	58	U	58	28	ug/Kg	☼	02/02/17 07:36	02/04/17 00:18	1
Aroclor-1221	58	U	58	27	ug/Kg	☼	02/02/17 07:36	02/04/17 00:18	1
Aroclor-1232	58	U	58	19	ug/Kg	☼	02/02/17 07:36	02/04/17 00:18	1
Aroclor-1242	58	U	58	23	ug/Kg	☼	02/02/17 07:36	02/04/17 00:18	1
Aroclor-1248	58	U	58	20	ug/Kg	☼	02/02/17 07:36	02/04/17 00:18	1
Aroclor-1254	**590**		58	16	ug/Kg	☼	02/02/17 07:36	02/04/17 00:18	1
Aroclor-1260	58	U	58	21	ug/Kg	☼	02/02/17 07:36	02/04/17 00:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*89*		*14 - 128*	*02/02/17 07:36*	*02/04/17 00:18*	*1*
DCB Decachlorobiphenyl	*92*		*10 - 132*	*02/02/17 07:36*	*02/04/17 00:18*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-75057-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: S-7878-013117-SSH-1024
Date Collected: 01/31/17 15:50
Date Received: 02/01/17 09:30

Lab Sample ID: 240-75057-9
Matrix: Solid
Percent Solids: 86.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	59	U	59	28	ug/Kg	☼	02/02/17 07:36	02/04/17 00:36	1
Aroclor-1221	59	U	59	27	ug/Kg	☼	02/02/17 07:36	02/04/17 00:36	1
Aroclor-1232	59	U	59	19	ug/Kg	☼	02/02/17 07:36	02/04/17 00:36	1
Aroclor-1242	59	U	59	23	ug/Kg	☼	02/02/17 07:36	02/04/17 00:36	1
Aroclor-1248	59	U	59	20	ug/Kg	☼	02/02/17 07:36	02/04/17 00:36	1
Aroclor-1254	**22**	**J**	59	16	ug/Kg	☼	02/02/17 07:36	02/04/17 00:36	1
Aroclor-1260	59	U	59	21	ug/Kg	☼	02/02/17 07:36	02/04/17 00:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*71*		*14 - 128*	*02/02/17 07:36*	*02/04/17 00:36*	*1*
DCB Decachlorobiphenyl	*77*		*10 - 132*	*02/02/17 07:36*	*02/04/17 00:36*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-75057-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: S-7878-013117-SSH-1025
Date Collected: 01/31/17 16:55
Date Received: 02/01/17 09:30

Lab Sample ID: 240-75057-10
Matrix: Solid
Percent Solids: 85.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	57	U	57	27	ug/Kg	☼	02/02/17 07:36	02/04/17 00:55	1
Aroclor-1221	57	U	57	26	ug/Kg	☼	02/02/17 07:36	02/04/17 00:55	1
Aroclor-1232	57	U	57	18	ug/Kg	☼	02/02/17 07:36	02/04/17 00:55	1
Aroclor-1242	57	U	57	23	ug/Kg	☼	02/02/17 07:36	02/04/17 00:55	1
Aroclor-1248	57	U	57	19	ug/Kg	☼	02/02/17 07:36	02/04/17 00:55	1
Aroclor-1254	**20**	**J**	57	16	ug/Kg	☼	02/02/17 07:36	02/04/17 00:55	1
Aroclor-1260	57	U	57	20	ug/Kg	☼	02/02/17 07:36	02/04/17 00:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*83*		*14 - 128*	*02/02/17 07:36*	*02/04/17 00:55*	*1*
DCB Decachlorobiphenyl	*83*		*10 - 132*	*02/02/17 07:36*	*02/04/17 00:55*	*1*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-75057-1

General Chemistry

Client Sample ID: S-7878-013117-SSH-1017A
Date Collected: 01/31/17 10:25
Date Received: 02/01/17 09:30

Lab Sample ID: 240-75057-1
Matrix: Solid
Percent Solids: 87.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	87.5		0.1	0.1	%			02/01/17 14:49	1
Percent Moisture	12.5		0.1	0.1	%			02/01/17 14:49	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-75057-1

General Chemistry

Client Sample ID: S-7878-013117-SSH-1017B
Date Collected: 01/31/17 10:30
Date Received: 02/01/17 09:30

Lab Sample ID: 240-75057-2
Matrix: Solid
Percent Solids: 82.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	82.9		0.1	0.1	%			02/01/17 14:49	1
Percent Moisture	17.1		0.1	0.1	%			02/01/17 14:49	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-75057-1

General Chemistry

Client Sample ID: S-7878-013117-SSH-1017C
Date Collected: 01/31/17 10:35
Date Received: 02/01/17 09:30

Lab Sample ID: 240-75057-3
Matrix: Solid
Percent Solids: 80.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	80.0		0.1	0.1	%			02/01/17 14:49	1
Percent Moisture	20.0		0.1	0.1	%			02/01/17 14:49	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-75057-1

General Chemistry

Client Sample ID: S-7878-013117-SSH-1019A
Date Collected: 01/31/17 11:15
Date Received: 02/01/17 09:30

Lab Sample ID: 240-75057-4
Matrix: Solid
Percent Solids: 84.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	84.7		0.1	0.1	%			02/01/17 14:49	1
Percent Moisture	15.3		0.1	0.1	%			02/01/17 14:49	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-75057-1

General Chemistry

Client Sample ID: S-7878-013117-SSH-1019B
Date Collected: 01/31/17 11:20
Date Received: 02/01/17 09:30

Lab Sample ID: 240-75057-5
Matrix: Solid
Percent Solids: 86.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	86.9		0.1	0.1	%			02/01/17 14:49	1
Percent Moisture	13.1		0.1	0.1	%			02/01/17 14:49	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-75057-1

General Chemistry

Client Sample ID: S-7878-013117-SSH-1019C
Date Collected: 01/31/17 11:25
Date Received: 02/01/17 09:30

Lab Sample ID: 240-75057-6
Matrix: Solid
Percent Solids: 89.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	89.9		0.1	0.1	%			02/01/17 14:49	1
Percent Moisture	10.1		0.1	0.1	%			02/01/17 14:49	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-75057-1

General Chemistry

Client Sample ID: S-7878-013117-SSH-1022
Date Collected: 01/31/17 13:46
Date Received: 02/01/17 09:30

Lab Sample ID: 240-75057-7
Matrix: Solid
Percent Solids: 86.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	86.5		0.1	0.1	%			02/01/17 14:49	1
Percent Moisture	13.5		0.1	0.1	%			02/01/17 14:49	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-75057-1

General Chemistry

Client Sample ID: S-7878-013117-SSH-1023
Date Collected: 01/31/17 14:55
Date Received: 02/01/17 09:30

Lab Sample ID: 240-75057-8
Matrix: Solid
Percent Solids: 86.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	86.0		0.1	0.1	%			02/01/17 14:49	1
Percent Moisture	14.0		0.1	0.1	%			02/01/17 14:49	1

General Chemistry

Client Sample ID: S-7878-013117-SSH-1024
Date Collected: 01/31/17 15:50
Date Received: 02/01/17 09:30

Lab Sample ID: 240-75057-9
Matrix: Solid
Percent Solids: 86.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	86.7		0.1	0.1	%			02/01/17 14:49	1
Percent Moisture	13.3		0.1	0.1	%			02/01/17 14:49	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-75057-1

General Chemistry

Client Sample ID: S-7878-013117-SSH-1025
Date Collected: 01/31/17 16:55
Date Received: 02/01/17 09:30

Lab Sample ID: 240-75057-10
Matrix: Solid
Percent Solids: 85.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	85.9		0.1	0.1	%			02/01/17 14:49	1
Percent Moisture	14.1		0.1	0.1	%			02/01/17 14:49	1

GC Semi VOA

Prep Batch: 265311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-75057-1	S-7878-013117-SSH-1017A	Total/NA	Solid	3540C	
240-75057-2	S-7878-013117-SSH-1017B	Total/NA	Solid	3540C	
240-75057-3	S-7878-013117-SSH-1017C	Total/NA	Solid	3540C	
240-75057-4	S-7878-013117-SSH-1019A	Total/NA	Solid	3540C	
240-75057-5	S-7878-013117-SSH-1019B	Total/NA	Solid	3540C	
240-75057-6	S-7878-013117-SSH-1019C	Total/NA	Solid	3540C	
240-75057-7	S-7878-013117-SSH-1022	Total/NA	Solid	3540C	
240-75057-8	S-7878-013117-SSH-1023	Total/NA	Solid	3540C	
240-75057-9	S-7878-013117-SSH-1024	Total/NA	Solid	3540C	
240-75057-10	S-7878-013117-SSH-1025	Total/NA	Solid	3540C	
MB 240-265311/23-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-265311/24-A	Lab Control Sample	Total/NA	Solid	3540C	
240-75057-10 MS	S-7878-013117-SSH-1025	Total/NA	Solid	3540C	
240-75057-10 MSD	S-7878-013117-SSH-1025	Total/NA	Solid	3540C	

Analysis Batch: 265577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-75057-1	S-7878-013117-SSH-1017A	Total/NA	Solid	8082	265311
240-75057-2	S-7878-013117-SSH-1017B	Total/NA	Solid	8082	265311
240-75057-3	S-7878-013117-SSH-1017C	Total/NA	Solid	8082	265311
240-75057-4	S-7878-013117-SSH-1019A	Total/NA	Solid	8082	265311
240-75057-5	S-7878-013117-SSH-1019B	Total/NA	Solid	8082	265311
240-75057-6	S-7878-013117-SSH-1019C	Total/NA	Solid	8082	265311
240-75057-7	S-7878-013117-SSH-1022	Total/NA	Solid	8082	265311
240-75057-8	S-7878-013117-SSH-1023	Total/NA	Solid	8082	265311
240-75057-9	S-7878-013117-SSH-1024	Total/NA	Solid	8082	265311
240-75057-10	S-7878-013117-SSH-1025	Total/NA	Solid	8082	265311
MB 240-265311/23-A	Method Blank	Total/NA	Solid	8082	265311
LCS 240-265311/24-A	Lab Control Sample	Total/NA	Solid	8082	265311
240-75057-10 MS	S-7878-013117-SSH-1025	Total/NA	Solid	8082	265311
240-75057-10 MSD	S-7878-013117-SSH-1025	Total/NA	Solid	8082	265311

General Chemistry

Analysis Batch: 265175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-75057-1	S-7878-013117-SSH-1017A	Total/NA	Solid	Moisture	
240-75057-2	S-7878-013117-SSH-1017B	Total/NA	Solid	Moisture	
240-75057-3	S-7878-013117-SSH-1017C	Total/NA	Solid	Moisture	
240-75057-4	S-7878-013117-SSH-1019A	Total/NA	Solid	Moisture	
240-75057-5	S-7878-013117-SSH-1019B	Total/NA	Solid	Moisture	
240-75057-6	S-7878-013117-SSH-1019C	Total/NA	Solid	Moisture	
240-75057-7	S-7878-013117-SSH-1022	Total/NA	Solid	Moisture	
240-75057-8	S-7878-013117-SSH-1023	Total/NA	Solid	Moisture	
240-75057-9	S-7878-013117-SSH-1024	Total/NA	Solid	Moisture	
240-75057-10	S-7878-013117-SSH-1025	Total/NA	Solid	Moisture	
240-75057-8 DU	S-7878-013117-SSH-1023	Total/NA	Solid	Moisture	

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-265311/23-A
Matrix: Solid
Analysis Batch: 265577

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 265311

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	50	U	50	24	ug/Kg		02/02/17 07:36	02/03/17 22:44	1
Aroclor-1221	50	U	50	23	ug/Kg		02/02/17 07:36	02/03/17 22:44	1
Aroclor-1232	50	U	50	16	ug/Kg		02/02/17 07:36	02/03/17 22:44	1
Aroclor-1242	50	U	50	20	ug/Kg		02/02/17 07:36	02/03/17 22:44	1
Aroclor-1248	50	U	50	17	ug/Kg		02/02/17 07:36	02/03/17 22:44	1
Aroclor-1254	50	U	50	14	ug/Kg		02/02/17 07:36	02/03/17 22:44	1
Aroclor-1260	50	U	50	18	ug/Kg		02/02/17 07:36	02/03/17 22:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*14 - 128*	*02/02/17 07:36*	*02/03/17 22:44*	*1*
DCB Decachlorobiphenyl	*81*		*10 - 132*	*02/02/17 07:36*	*02/03/17 22:44*	*1*

Lab Sample ID: LCS 240-265311/24-A
Matrix: Solid
Analysis Batch: 265577

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 265311

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor-1016			1000	743		ug/Kg		74	47 - 120		
Aroclor-1260			1000	820		ug/Kg		82	46 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*54*		*14 - 128*
DCB Decachlorobiphenyl	*70*		*10 - 132*

Lab Sample ID: 240-75057-10 MS
Matrix: Solid
Analysis Batch: 265577

Client Sample ID: S-7878-013117-SSH-1025
Prep Type: Total/NA
Prep Batch: 265311

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor-1016	57	U	1160	1180		ug/Kg	☼	102	31 - 120		
Aroclor-1260	57	U	1160	1190		ug/Kg	☼	103	21 - 122		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*86*		*14 - 128*
DCB Decachlorobiphenyl	*88*		*10 - 132*

Lab Sample ID: 240-75057-10 MSD
Matrix: Solid
Analysis Batch: 265577

Client Sample ID: S-7878-013117-SSH-1025
Prep Type: Total/NA
Prep Batch: 265311

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor-1016	57	U	1150	1210		ug/Kg	☼	106	31 - 120	2	30
Aroclor-1260	57	U	1150	1240		ug/Kg	☼	108	21 - 122	4	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*88*		*14 - 128*
DCB Decachlorobiphenyl	*91*		*10 - 132*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-75057-1

Method: Moisture - Percent Moisture

Lab Sample ID: 240-75057-8 DU
Matrix: Solid
Analysis Batch: 265175

Client Sample ID: S-7878-013117-SSH-1023
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Solids	86.0			86.0		%				0	20
Percent Moisture	14.0			14.0		%				0	20

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-75057-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	TCX2 (14-128)	DCB2 (10-132)										
240-75057-1	S-7878-013117-SSH-1017A	94	95										
240-75057-2	S-7878-013117-SSH-1017B	101	96										
240-75057-3	S-7878-013117-SSH-1017C	87	87										
240-75057-4	S-7878-013117-SSH-1019A	90	87										
240-75057-5	S-7878-013117-SSH-1019B	97	94										
240-75057-6	S-7878-013117-SSH-1019C	92	95										
240-75057-7	S-7878-013117-SSH-1022	82	89										
240-75057-8	S-7878-013117-SSH-1023	89	92										
240-75057-9	S-7878-013117-SSH-1024	71	77										
240-75057-10	S-7878-013117-SSH-1025	83	83										
240-75057-10 MS	S-7878-013117-SSH-1025	86	88										
240-75057-10 MSD	S-7878-013117-SSH-1025	88	91										
LCS 240-265311/24-A	Lab Control Sample	54	70										
MB 240-265311/23-A	Method Blank	80	81										

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-75057-1

Client Sample ID: S-7878-013117-SSH-1017A — Lab Sample ID: 240-75057-1

Date Collected: 01/31/17 10:25 — **Matrix: Solid**
Date Received: 02/01/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	265175	02/01/17 14:49	BLW	TAL CAN

Client Sample ID: S-7878-013117-SSH-1017A — Lab Sample ID: 240-75057-1

Date Collected: 01/31/17 10:25 — **Matrix: Solid**
Date Received: 02/01/17 09:30 — **Percent Solids: 87.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			265311	02/02/17 07:36	JT	TAL CAN
Total/NA	Analysis	8082		10	265577	02/03/17 21:10	CSC	TAL CAN

Client Sample ID: S-7878-013117-SSH-1017B — Lab Sample ID: 240-75057-2

Date Collected: 01/31/17 10:30 — **Matrix: Solid**
Date Received: 02/01/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	265175	02/01/17 14:49	BLW	TAL CAN

Client Sample ID: S-7878-013117-SSH-1017B — Lab Sample ID: 240-75057-2

Date Collected: 01/31/17 10:30 — **Matrix: Solid**
Date Received: 02/01/17 09:30 — **Percent Solids: 82.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			265311	02/02/17 07:36	JT	TAL CAN
Total/NA	Analysis	8082		1	265577	02/03/17 21:29	CSC	TAL CAN

Client Sample ID: S-7878-013117-SSH-1017C — Lab Sample ID: 240-75057-3

Date Collected: 01/31/17 10:35 — **Matrix: Solid**
Date Received: 02/01/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	265175	02/01/17 14:49	BLW	TAL CAN

Client Sample ID: S-7878-013117-SSH-1017C — Lab Sample ID: 240-75057-3

Date Collected: 01/31/17 10:35 — **Matrix: Solid**
Date Received: 02/01/17 09:30 — **Percent Solids: 80.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			265311	02/02/17 07:36	JT	TAL CAN
Total/NA	Analysis	8082		1	265577	02/03/17 21:48	CSC	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-75057-1

Client Sample ID: S-7878-013117-SSH-1019A — Lab Sample ID: 240-75057-4

Date Collected: 01/31/17 11:15 — **Matrix: Solid**
Date Received: 02/01/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	265175	02/01/17 14:49	BLW	TAL CAN

Client Sample ID: S-7878-013117-SSH-1019A — Lab Sample ID: 240-75057-4

Date Collected: 01/31/17 11:15 — **Matrix: Solid**
Date Received: 02/01/17 09:30 — **Percent Solids: 84.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			265311	02/02/17 07:36	JT	TAL CAN
Total/NA	Analysis	8082		1	265577	02/03/17 22:06	CSC	TAL CAN

Client Sample ID: S-7878-013117-SSH-1019B — Lab Sample ID: 240-75057-5

Date Collected: 01/31/17 11:20 — **Matrix: Solid**
Date Received: 02/01/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	265175	02/01/17 14:49	BLW	TAL CAN

Client Sample ID: S-7878-013117-SSH-1019B — Lab Sample ID: 240-75057-5

Date Collected: 01/31/17 11:20 — **Matrix: Solid**
Date Received: 02/01/17 09:30 — **Percent Solids: 86.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			265311	02/02/17 07:36	JT	TAL CAN
Total/NA	Analysis	8082		1	265577	02/03/17 22:25	CSC	TAL CAN

Client Sample ID: S-7878-013117-SSH-1019C — Lab Sample ID: 240-75057-6

Date Collected: 01/31/17 11:25 — **Matrix: Solid**
Date Received: 02/01/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	265175	02/01/17 14:49	BLW	TAL CAN

Client Sample ID: S-7878-013117-SSH-1019C — Lab Sample ID: 240-75057-6

Date Collected: 01/31/17 11:25 — **Matrix: Solid**
Date Received: 02/01/17 09:30 — **Percent Solids: 89.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			265311	02/02/17 07:36	JT	TAL CAN
Total/NA	Analysis	8082		1	265577	02/03/17 23:40	CSC	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-75057-1

Client Sample ID: S-7878-013117-SSH-1022 — **Lab Sample ID: 240-75057-7**
Date Collected: 01/31/17 13:46 — **Matrix: Solid**
Date Received: 02/01/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	265175	02/01/17 14:49	BLW	TAL CAN

Client Sample ID: S-7878-013117-SSH-1022 — **Lab Sample ID: 240-75057-7**
Date Collected: 01/31/17 13:46 — **Matrix: Solid**
Date Received: 02/01/17 09:30 — **Percent Solids: 86.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			265311	02/02/17 07:36	JT	TAL CAN
Total/NA	Analysis	8082		1	265577	02/03/17 23:59	CSC	TAL CAN

Client Sample ID: S-7878-013117-SSH-1023 — **Lab Sample ID: 240-75057-8**
Date Collected: 01/31/17 14:55 — **Matrix: Solid**
Date Received: 02/01/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	265175	02/01/17 14:49	BLW	TAL CAN

Client Sample ID: S-7878-013117-SSH-1023 — **Lab Sample ID: 240-75057-8**
Date Collected: 01/31/17 14:55 — **Matrix: Solid**
Date Received: 02/01/17 09:30 — **Percent Solids: 86.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			265311	02/02/17 07:36	JT	TAL CAN
Total/NA	Analysis	8082		1	265577	02/04/17 00:18	CSC	TAL CAN

Client Sample ID: S-7878-013117-SSH-1024 — **Lab Sample ID: 240-75057-9**
Date Collected: 01/31/17 15:50 — **Matrix: Solid**
Date Received: 02/01/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	265175	02/01/17 14:49	BLW	TAL CAN

Client Sample ID: S-7878-013117-SSH-1024 — **Lab Sample ID: 240-75057-9**
Date Collected: 01/31/17 15:50 — **Matrix: Solid**
Date Received: 02/01/17 09:30 — **Percent Solids: 86.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			265311	02/02/17 07:36	JT	TAL CAN
Total/NA	Analysis	8082		1	265577	02/04/17 00:36	CSC	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-75057-1

Client Sample ID: S-7878-013117-SSH-1025
Lab Sample ID: 240-75057-10
Date Collected: 01/31/17 16:55
Matrix: Solid
Date Received: 02/01/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	265175	02/01/17 14:49	BLW	TAL CAN

Client Sample ID: S-7878-013117-SSH-1025
Lab Sample ID: 240-75057-10
Date Collected: 01/31/17 16:55
Matrix: Solid
Date Received: 02/01/17 09:30
Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			265311	02/02/17 07:36	JT	TAL CAN
Total/NA	Analysis	8082		1	265577	02/04/17 00:55	CSC	TAL CAN

Laboratory References:

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

Certification Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-75057-1

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	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	02-28-17 *
Kentucky (UST)	State Program	4	58	02-23-18
Kentucky (WW)	State Program	4	98016	12-31-16 *
Minnesota	NELAP	5	039-999-348	12-31-17
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		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-17
Washington	State Program	10	C971	01-12-18
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 Michigan
10448 Citation Drive
Suite 200
Brighton, MI 48116
Phone: 810.229.2763 Fax:

4.0/4.0

Chain of Custody Record

190035

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: M. Tomka	Site Contact: JE Pardys	Date: 1/31/17	COC No: 190035
Company Name: GHD	Tel/Fax: 519 884 0510	Lab Contact: D. Heckley	Carrier: FedEx	1 of 2 COCs
Address: 14496 N Sheldon Rd Ste 200	Analysis Turnaround Time			Sampler: S Hoevemeyer
City/State/Zip: Plymouth MI 48170	☒ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 734 453 5123	TAT if different from Below			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: RacerTrust SMI	☒ 1 week			
Site: SSOW 7878-015	☐ 2 days			Job / SDG No.:
P.O.# Lab 24006918	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs	Sample Specific Notes:
S-7878-01317-SSH-1017A	1/31/17	1025	G	SO	1	N	N	X	
-1017B		1030	G	SO	1	N	N	X	
-1017C		1035	G	SO	1	N	N	X	
-1019A		1115	G	SO	1	N	N	X	
-1019B		1120	G	SO	1	N	N	X	
-1019C		1125	G	SO	1	N	N	X	
-1022		1346	C	SO	1	N	N	X	
-1023		1455	C	SO	1	N	N	X	
-1024		1550	C	SO	1	N	N	X	
S-7878-01317-SSH-1025		1655	C	SO	1	N	N	X	

SMH

Michigan
240-75057 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1

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.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:
TAT - 1 week

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: 960810 | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ | Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	GHD	1/31/17 1745	[signature]	TAL	2-1-17 930
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

2/7/2017

TestAmerica Canton Sample Receipt Form/Narrative **Login # : 75057**

Canton Facility

Client GHD Site Name —

Cooler Received on 2-1-17 Opened on 2-1-17

Cooler unpacked by: POP

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

TestAmerica Cooler # Foam Box Client Cooler Box Other

Packing material used: Bubble Wrap Foam Plastic Bag None Other

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form
   IR GUN# IR-8 (CF +0 °C) Observed Cooler Temp. 4.0 °C Corrected Cooler Temp. 4.0 °C
   IR GUN #36 (CF +1.1°C) Observed Cooler Temp. ____ °C Corrected Cooler Temp. ____ °C
2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No
   -Were custody seals on the outside of the cooler(s) signed & dated? Yes No NA
   -Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels be reconciled with the COC? Yes No
9. Were correct bottle(s) used for the test(s) indicated? Yes No
10. Sufficient quantity received to perform indicated analyses? Yes No
11. Are these work share samples? Yes No
    If yes, Questions 11-15 have been checked at the originating laboratory.
11. Were sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# **HC682547**
12. Were VOAs on the COC? Yes No
13. Were air bubbles >6 mm in any VOA vials? Yes No NA
14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #____ Yes No
15. Was a LL Hg or Me Hg trip blank present? ____ Yes No

Contacted PM ____ Date ____ by ____ via Verbal Voice Mail Other

Concerning ____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

15. SAMPLE CONDITION

Sample(s) ____ were received after the recommended holding time had expired.
Sample(s) ____ were received in a broken container.
Sample(s) ____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) ____ were further preserved in the laboratory.
Time preserved: ____ Preservative(s) added/Lot number(s): ____

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: 240-75317-1
Client Project/Site: 7878, RACER SMI

For:
GHD Services Inc.
14496 Sheldon Road, Suite 200
Plymouth, Michigan 48170

Attn: Rawa Fleisher

Denise D Heckler

Authorized for release by:
2/13/2017 3:52:51 PM

Denise Heckler, Project Manager II
(330)966-9477
denise.heckler@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: 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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Case Narrative

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-75317-1

Job ID: 240-75317-1

Laboratory: TestAmerica Canton

Narrative

Job Narrative
240-75317-1

Comments
No additional comments.

Receipt
The samples were received on 2/8/2017 9:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.6º C.

GC Semi VOA
Method(s) 8082: The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: S-7878-020717-SK-002 (240-75317-2), (240-75333-B-5-B), (240-75333-B-5-C MS) and (240-75333-B-5-D MSD).2881013, 2596993, 2719940.

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

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

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

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-75317-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
X	Surrogate is outside control limits

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
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)

Sample Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-75317-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-75317-1	S-7878-020717-SK-001	Solid	02/07/17 10:30	02/08/17 09:20
240-75317-2	S-7878-020717-SK-002	Solid	02/07/17 13:30	02/08/17 09:20

Detection Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-75317-1

Client Sample ID: S-7878-020717-SK-001 — Lab Sample ID: 240-75317-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	11000		1100	320	ug/Kg	20	☼	8082	Total/NA

Client Sample ID: S-7878-020717-SK-002 — Lab Sample ID: 240-75317-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	6800		570	160	ug/Kg	10	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-75317-1

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
Moisture	Percent Moisture	EPA	TAL CAN

Protocol References:

EPA = US Environmental Protection Agency

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

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-75317-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: S-7878-020717-SK-001
Date Collected: 02/07/17 10:30
Date Received: 02/08/17 09:20

Lab Sample ID: 240-75317-1
Matrix: Solid
Percent Solids: 85.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	1100	U	1100	550	ug/Kg	☼	02/09/17 09:30	02/12/17 18:12	20
Aroclor-1221	1100	U	1100	530	ug/Kg	☼	02/09/17 09:30	02/12/17 18:12	20
Aroclor-1232	1100	U	1100	370	ug/Kg	☼	02/09/17 09:30	02/12/17 18:12	20
Aroclor-1242	1100	U	1100	460	ug/Kg	☼	02/09/17 09:30	02/12/17 18:12	20
Aroclor-1248	1100	U	1100	390	ug/Kg	☼	02/09/17 09:30	02/12/17 18:12	20
Aroclor-1254	**11000**		1100	320	ug/Kg	☼	02/09/17 09:30	02/12/17 18:12	20
Aroclor-1260	1100	U	1100	410	ug/Kg	☼	02/09/17 09:30	02/12/17 18:12	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*X*	*14 - 128*	*02/09/17 09:30*	*02/12/17 18:12*	*20*
DCB Decachlorobiphenyl	*0*	*X*	*10 - 132*	*02/09/17 09:30*	*02/12/17 18:12*	*20*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-75317-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: S-7878-020717-SK-002
Date Collected: 02/07/17 13:30
Date Received: 02/08/17 09:20

Lab Sample ID: 240-75317-2
Matrix: Solid
Percent Solids: 86.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	570	U	570	270	ug/Kg	☼	02/09/17 09:30	02/12/17 18:30	10
Aroclor-1221	570	U	570	260	ug/Kg	☼	02/09/17 09:30	02/12/17 18:30	10
Aroclor-1232	570	U	570	180	ug/Kg	☼	02/09/17 09:30	02/12/17 18:30	10
Aroclor-1242	570	U	570	230	ug/Kg	☼	02/09/17 09:30	02/12/17 18:30	10
Aroclor-1248	570	U	570	190	ug/Kg	☼	02/09/17 09:30	02/12/17 18:30	10
Aroclor-1254	**6800**		570	160	ug/Kg	☼	02/09/17 09:30	02/12/17 18:30	10
Aroclor-1260	570	U	570	210	ug/Kg	☼	02/09/17 09:30	02/12/17 18:30	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*24*		*14 - 128*	*02/09/17 09:30*	*02/12/17 18:30*	*10*
DCB Decachlorobiphenyl	*0*	*X*	*10 - 132*	*02/09/17 09:30*	*02/12/17 18:30*	*10*

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-75317-1

General Chemistry

Client Sample ID: S-7878-020717-SK-001
Date Collected: 02/07/17 10:30
Date Received: 02/08/17 09:20

Lab Sample ID: 240-75317-1
Matrix: Solid
Percent Solids: 85.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	85.9		0.1	0.1	%			02/09/17 10:44	1
Percent Moisture	14.1		0.1	0.1	%			02/09/17 10:44	1

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-75317-1

General Chemistry

Client Sample ID: S-7878-020717-SK-002
Date Collected: 02/07/17 13:30
Date Received: 02/08/17 09:20

Lab Sample ID: 240-75317-2
Matrix: Solid
Percent Solids: 86.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	86.2		0.1	0.1	%			02/09/17 10:44	1
Percent Moisture	13.8		0.1	0.1	%			02/09/17 10:44	1

QC Association Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-75317-1

GC Semi VOA

Prep Batch: 266243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-75317-1	S-7878-020717-SK-001	Total/NA	Solid	3540C	
240-75317-2	S-7878-020717-SK-002	Total/NA	Solid	3540C	
MB 240-266243/22-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-266243/23-A	Lab Control Sample	Total/NA	Solid	3540C	

Analysis Batch: 266530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-75317-1	S-7878-020717-SK-001	Total/NA	Solid	8082	266243
240-75317-2	S-7878-020717-SK-002	Total/NA	Solid	8082	266243
MB 240-266243/22-A	Method Blank	Total/NA	Solid	8082	266243
LCS 240-266243/23-A	Lab Control Sample	Total/NA	Solid	8082	266243

General Chemistry

Analysis Batch: 266270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-75317-1	S-7878-020717-SK-001	Total/NA	Solid	Moisture	
240-75317-2	S-7878-020717-SK-002	Total/NA	Solid	Moisture	
240-75317-1 DU	S-7878-020717-SK-001	Total/NA	Solid	Moisture	

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-266243/22-A
Matrix: Solid
Analysis Batch: 266530

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 266243

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	50	U	50	24	ug/Kg		02/09/17 09:30	02/12/17 20:02	1
Aroclor-1221	50	U	50	23	ug/Kg		02/09/17 09:30	02/12/17 20:02	1
Aroclor-1232	50	U	50	16	ug/Kg		02/09/17 09:30	02/12/17 20:02	1
Aroclor-1242	50	U	50	20	ug/Kg		02/09/17 09:30	02/12/17 20:02	1
Aroclor-1248	50	U	50	17	ug/Kg		02/09/17 09:30	02/12/17 20:02	1
Aroclor-1254	50	U	50	14	ug/Kg		02/09/17 09:30	02/12/17 20:02	1
Aroclor-1260	50	U	50	18	ug/Kg		02/09/17 09:30	02/12/17 20:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*57*		*14 - 128*	*02/09/17 09:30*	*02/12/17 20:02*	*1*
DCB Decachlorobiphenyl	*80*		*10 - 132*	*02/09/17 09:30*	*02/12/17 20:02*	*1*

Lab Sample ID: LCS 240-266243/23-A
Matrix: Solid
Analysis Batch: 266530

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 266243

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor-1016			1000	761		ug/Kg		76	47 - 120		
Aroclor-1260			1000	756		ug/Kg		76	46 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*76*		*14 - 128*
DCB Decachlorobiphenyl	*73*		*10 - 132*

Method: Moisture - Percent Moisture

Lab Sample ID: 240-75317-1 DU
Matrix: Solid
Analysis Batch: 266270

Client Sample ID: S-7878-020717-SK-001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Solids	85.9			86.8		%				1	20
Percent Moisture	14.1			13.2		%				7	20

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-75317-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		TCX1	DCB1								
Lab Sample ID	Client Sample ID	(14-128)	(10-132)								
240-75317-1	S-7878-020717-SK-001	0 X	0 X								
240-75317-2	S-7878-020717-SK-002	24	0 X								
LCS 240-266243/23-A	Lab Control Sample	76	73								
MB 240-266243/22-A	Method Blank	57	80								

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-75317-1

Client Sample ID: S-7878-020717-SK-001
Lab Sample ID: 240-75317-1
Date Collected: 02/07/17 10:30
Matrix: Solid
Date Received: 02/08/17 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	266270	02/09/17 10:44	DTN	TAL CAN

Client Sample ID: S-7878-020717-SK-001
Lab Sample ID: 240-75317-1
Date Collected: 02/07/17 10:30
Matrix: Solid
Date Received: 02/08/17 09:20
Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			266243	02/09/17 09:30	JT	TAL CAN
Total/NA	Analysis	8082		20	266530	02/12/17 18:12	LSH	TAL CAN

Client Sample ID: S-7878-020717-SK-002
Lab Sample ID: 240-75317-2
Date Collected: 02/07/17 13:30
Matrix: Solid
Date Received: 02/08/17 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	266270	02/09/17 10:44	DTN	TAL CAN

Client Sample ID: S-7878-020717-SK-002
Lab Sample ID: 240-75317-2
Date Collected: 02/07/17 13:30
Matrix: Solid
Date Received: 02/08/17 09:20
Percent Solids: 86.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			266243	02/09/17 09:30	JT	TAL CAN
Total/NA	Analysis	8082		10	266530	02/12/17 18:30	LSH	TAL CAN

Laboratory References:

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

Certification Summary

Client: GHD Services Inc.
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-75317-1

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	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	02-28-17 *
Kentucky (UST)	State Program	4	58	02-23-18
Kentucky (WW)	State Program	4	98016	12-31-16 *
Minnesota	NELAP	5	039-999-348	12-31-17
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		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-17
Washington	State Program	10	C971	01-12-18
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 Michigan
10448 Citation Drive
Suite 200
Brighton, MI 48116
Phone: 810.229.2763 Fax:

3.6/3.6

Chain of Custody Record

149216

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: John-Eric Pardys	Site Contact: S. Habermyer	Date: 2-7-17	COC No:
Company Name: GHD	Tel/Fax: (519) 884-0510	Lab Contact: S. Finn	Carrier: FedEx	1 of 1 COCs
Address: 14496 N. Sheldon Rd #200	Analysis Turnaround Time			Sampler:
City/State/Zip: Plymouth, M.I. 48170	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: (734) 453-5123	TAT if different from Below			Walk-in Client:
Fax:	☐ 2 weeks ☒ 1 week ☐ 2 days ☐ 1 day			Lab Sampling:
Project Name: SMI - Racer Trust				Job / SDG No.:
Site: Saginaw, M.I.				
PO# 55417 7878-015				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs	Sample Specific Notes:
S-7878-020717-SK-001	2-7-17	10:30	C	Soil	1			X	
-002		13:30	C		1			X	
-003		9:30	G		1			X	Hold
-004		9:50	G		1			X	Hold
-005		10:05	G		1			X	Hold
-006		10:15	G		1			X	Hold
-007		12:50	G		1			X	Hold
-008		13:05	G		1			X	Hold
-009		13:15	G		1			X	Hold

SK

240-75317 Chain of Custody

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.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: Sample Event Completed

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ | Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	GHD 2-7-17	16:00		DANC	2/8/17 9:20
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

2/13/2017

TestAmerica Canton Sample Receipt Form/Narrative **Login # : 75317**

Canton Facility

Client GHD Site Name _____ Cooler unpacked by:

Cooler Received on 2/8/17 Opened on 2/8/17

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # _____ Foam Box ~~Client Cooler~~ Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN# IR-8 (CF +0 °C) Observed Cooler Temp. 3.6 °C Corrected Cooler Temp. 3.6 °C

IR GUN #36 (CF +1.1°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity _____ Yes No

-Were custody seals on the outside of the cooler(s) signed & dated? Yes No NA

-Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No

3. Shippers' packing slip attached to the cooler(s)? Yes No

4. Did custody papers accompany the sample(s)? Yes No

5. Were the custody papers relinquished & signed in the appropriate place? Yes No

6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No

7. Did all bottles arrive in good condition (Unbroken)? Yes No

8. Could all bottle labels be reconciled with the COC? Yes No

9. Were correct bottle(s) used for the test(s) indicated? Yes No

10. Sufficient quantity received to perform indicated analyses? Yes No

11. Are these work share samples? Yes No

If yes, Questions 11-15 have been checked at the originating laboratory.

11. Were sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# **HC682547**

12. Were VOAs on the COC? Yes No

13. Were air bubbles >6 mm in any VOA vials? Yes No NA

14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No

15. Was a LL Hg or Me Hg trip blank present? _____ Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

Appendix C
Data Validation Memorandums

Memorandum

December 21, 2016

To:	Mike Tomka	Ref. No.:	007878
From:	Nancy Bergstrom/tl/70/Det	Tel:	734-453-5123
CC:	Rawa Fleisher, John-Eric Pardys		

Subject: **Analytical Results and Reduced Validation**
Additional Soil/Concrete Investigation
MLC/Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

1. Introduction

This document details a reduced validation of analytical results for concrete, soil, water and wipe samples collected in support of the Additional Soil/Concrete Investigation at the MLC/Malleable Iron Plant Site during 2010, 2014, 2015 and 2016. Samples were submitted to TestAmerica Laboratories, Inc., located in North Canton, Ohio and ALS Environmental located in Holland, Michigan. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2. A summary of the analytical methodology is presented in Table 3.

Standard GHD report deliverables were submitted by the laboratory. The final results and supporting quality assurance/quality control (QA/QC) data were assessed. Evaluation of the data was based on information obtained from the chain of custody forms, finished report forms, method blank data, and recovery data from surrogate spikes/laboratory control samples (LCS)/matrix spikes (MS).

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 3 and applicable guidance from the documents entitled:

i) "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", United States Environmental Protection Agency (USEPA) 540/R-99-008, October 1999

ii) "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review", USEPA 540/R-94-013, February 1994

Items i) and ii) will subsequently be referred to as the "Guidelines" in this Memorandum.

2. Sample Holding Time and Preservation

The sample holding time criteria for the analyses are summarized in Table 3. Sample chain of custody documents and analytical reports were used to determine sample holding times. Table 4 presents the

samples qualified due to holding time exceedance. All remaining samples were prepared and analyzed within the required holding times.

All samples were properly preserved, delivered on ice, and stored by the laboratory at the required temperature (4 +/- 2°C).

3. Laboratory Method Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures.

For this study, laboratory method blanks were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

Table 5 presents the qualified sample result due to analyte concentrations in a method blank. All remaining method blank results were non-detect or method blank detections were associated with investigative samples that reported non-detect concentrations.

4. Surrogate Spike Recoveries - Organic Analyses

In accordance with the methods employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample extraction and/or analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for polychlorinated biphenyls (PCB) and toxicity characteristic leaching procedure (TCLP) volatile organic compounds (VOC) determinations were spiked with the appropriate number of surrogate compounds prior to sample extraction and/or analysis.

Surrogate recoveries were assessed against laboratory control limits. Table 6 presents the qualified sample data due to outlying surrogate recoveries. Several PCB surrogate recoveries exceeded the percent recovery criteria. Associated sample results were non-detect and qualification was not required. All remaining surrogate recoveries were within the laboratory control limits or were not assessed due to necessary sample dilutions.

5. Laboratory Control Sample (LCS) Analyses

LCS are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects.

For this study, LCS were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

Organic Analyses

The LCS contained all compounds of interest (TCLP VOC) or the compounds specified in the method (PCB). All LCS were within the laboratory control limits, demonstrating acceptable analytical accuracy.

Inorganic Analyses

The LCS contained all analytes of interest. LCS recoveries were assessed per the "Guidelines". All LCS recoveries were within the control limits, demonstrating acceptable analytical accuracy.

6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

To evaluate the effects of sample matrices on the preparation process, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS/MSD samples. The RPD between the MS and MSD is used to assess analytical precision.

MS/MSD analyses were performed as specified in Table 1.

Organic Analyses

The MS/MSD samples were spiked with the compounds specified in the method. Several PCB MS/MSD recoveries exceeded the percent recovery criteria. These analytes were not detected in the associated investigative samples and qualification was not required. All remaining percent recoveries and RPD values were within the laboratory control limits or were not assessed due to necessary sample dilutions.

Inorganic Analyses

The MS/MSD samples were spiked with the analytes of interest, and the results were evaluated using the "Guidelines". All percent recoveries and RPD values were within the control limits, demonstrating acceptable analytical accuracy and precision.

7. Analyte Reporting

The laboratory reported detected results down to the laboratory's method detection limit (MDL) for each analyte. Positive analyte detections less than the RL but greater than the MDL were reported as estimated (J) in Table 2 unless qualified otherwise in this memorandum. Non-detect results were presented as non-detect at the RL in Table 2.

8. Conclusion

Based on the assessment detailed in the foregoing, the data summarized in Table 2 are acceptable with the specific qualifications noted herein.

Table 1

Sample Collection and Analysis Summary
Additional Soil/Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Sample Identification	Location	Matrix	Initial Sample Depth (ft. bgs.)	Final Sample Depth (ft. bgs.)	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters: PCB	TCLP VOC	TCLP Metals	Comments
TA-NC SDG No.: A0H27517										
W-7878-082510-SSH-010	010	Water	--	--	08/25/2010	10:15	X	--	--	
TA-NC SDG No.: A0I13406										
W-7878-090810-SSH-011	011	Water	--	--	09/08/2010	09:50	X	--	--	
O-7878-090810-SSH-012	012	Oil	--	--	09/08/2010	11:07	--	--	X	MS/MSD
TA-NC SDG No.: 240-44356-1										
O-7878-111114-SSH-TOTE 14	TOTE 14	Oil	--	--	11/11/2014	15:00	X	--	--	
TA-NC SDG No.: 240-54045-1										
SL-7878-080415-SSH-15101	15101	Sludge	--	--	08/04/2015	11:15	X	--	--	MS/MSD
TA-NC SDG No.: 240-63893-1										
C-7878-042116-SSH-16001	16001	Concrete	0	2.5	04/21/2016	10:00	X	--	--	
C-7878-042116-SSH-16002	16002	Concrete	0	2.5	04/21/2016	10:45	X	X	X	
TA-NC SDG No.: 240-67660-1										
C-7878-072516-SSH-6000	6000	Concrete	0	0.5	07/25/2016	09:45	X	--	--	
C-7878-072516-SSH-6001	6001	Concrete	0	0.5	07/25/2016	09:50	X	--	--	
C-7878-072516-SSH-6002	6002	Concrete	0	0.5	07/25/2016	10:55	X	--	--	
C-7878-072516-SSH-6003	6003	Concrete	0	0.5	07/25/2016	10:00	X	--	--	
C-7878-072516-SSH-6004	6004	Concrete	0	0.5	07/25/2016	10:05	X	--	--	
C-7878-072516-SSH-6005	6005	Concrete	0	0.5	07/25/2016	10:10	X	--	--	
C-7878-072516-SSH-6006	6006	Concrete	0	0.5	07/25/2016	10:15	X	--	--	
C-7878-072516-SSH-6007	6007	Concrete	0	0.5	07/25/2016	10:20	X	--	--	
C-7878-072516-SSH-6008	6008	Concrete	0	0.5	07/25/2016	10:25	X	--	--	
C-7878-072516-SSH-6009	6009	Concrete	0	0.5	07/25/2016	10:35	X	--	--	
C-7878-072516-SSH-6010	6010	Concrete	0	0.5	07/25/2016	10:45	X	--	--	
C-7878-072516-SSH-6011	6011	Concrete	0	0.5	07/25/2016	11:00	X	--	--	

Table 1

Sample Collection and Analysis Summary
Additional Soil/Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Sample Identification	Location	Matrix	Initial Sample Depth (ft. bgs.)	Final Sample Depth (ft. bgs.)	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters: PCB	TCLP VOC	TCLP Metals	Comments
TA-NC SDG No.: 240-67660-1										
C-7878-072516-SSH-6012	6012	Concrete	0	0.5	07/25/2016	11:05	X	--	--	
C-7878-072516-SSH-6013	6013	Concrete	0	0.5	07/25/2016	11:10	X	--	--	
C-7878-072516-SSH-6014	6014	Concrete	0	0.5	07/25/2016	12:15	X	--	--	
C-7878-072516-SSH-6015	6015	Concrete	0	0.5	07/25/2016	12:20	X	--	--	
C-7878-072516-SSH-6016	6016	Concrete	0	0.5	07/25/2016	12:25	X	--	--	MS/MSD
C-7878-072516-SSH-6017	6017	Concrete	0	0.5	07/25/2016	12:30	X	--	--	MS/MSD
C-7878-072516-SSH-6018	6018	Concrete	0	0.5	07/25/2016	12:35	X	--	--	
C-7878-072516-SSH-6019	6019	Concrete	0	0.5	07/25/2016	12:40	X	--	--	
C-7878-072516-SSH-6020	6020	Concrete	0	0.5	07/25/2016	12:45	X	--	--	
C-7878-072516-SSH-6021	6021	Concrete	0	0.5	07/25/2016	11:55	X	--	--	
C-7878-072516-SSH-6022	6022	Concrete	0	0.5	07/25/2016	11:55	X	--	--	
C-7878-072516-SSH-6023	6023	Concrete	0	0.5	07/25/2016	12:05	X	--	--	
C-7878-072516-SSH-6024	6024	Concrete	0	0.5	07/25/2016	12:50	X	--	--	
C-7878-072516-SSH-6025	6025	Concrete	0	0.5	07/25/2016	12:55	X	--	--	
C-7878-072516-SSH-6026	6026	Concrete	0	0.5	07/25/2016	13:00	X	--	--	
C-7878-072516-SSH-6027	6027	Concrete	0	0.5	07/25/2016	13:05	X	--	--	
C-7878-072516-SSH-6028	6028	Concrete	0	0.5	07/25/2016	11:15	X	--	--	
C-7878-072516-SSH-6030	6030	Concrete	0	0.5	07/25/2016	14:35	X	--	--	
C-7878-072516-SSH-6031	6031	Concrete	0	0.5	07/25/2016	14:00	X	--	--	
C-7878-072516-SSH-6036	6036	Concrete	0	0.5	07/25/2016	14:05	X	--	--	
C-7878-072516-SSH-6037	6037	Concrete	0	0.5	07/25/2016	14:15	X	--	--	
C-7878-072516-SSH-6038	6038	Concrete	0	0.5	07/25/2016	14:40	X	--	--	
C-7878-072516-SSH-6039	6039	Concrete	0	0.5	07/25/2016	13:45	X	--	--	
C-7878-072516-SSH-6040	6040	Concrete	0	0.5	07/25/2016	13:50	X	--	--	
C-7878-072516-SSH-6043	6043	Concrete	0	0.5	07/25/2016	11:40	X	--	--	MS/MSD
C-7878-072516-SSH-6044	6044	Concrete	0	0.5	07/25/2016	11:45	X	--	--	
C-7878-072516-SSH-6045	6045	Concrete	0	0.5	07/25/2016	11:50	X	--	--	
C-7878-072516-SSH-6046	6046	Concrete	0	0.5	07/25/2016	11:35	X	--	--	
C-7878-072516-SSH-6047	6047	Concrete	0	0.5	07/25/2016	11:20	X	--	--	

Table 1

Sample Collection and Analysis Summary
Additional Soil/Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Sample Identification	Location	Matrix	Initial Sample Depth (ft. bgs.)	Final Sample Depth (ft. bgs.)	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters: PCB	Analysis/Parameters: TCLP VOC	Analysis/Parameters: TCLP Metals	Comments
TA-NC SDG No.: 240-67660-1										
C-7878-072516-SSH-6048	6048	Concrete	0	0.5	07/25/2016	11:25	X	--	--	
C-7878-072516-SSH-6049	6049	Concrete	0	0.5	07/25/2016	11:30	X	--	--	
C-7878-072516-SSH-6050	6050	Concrete	0	0.5	07/25/2016	14:20	X	--	--	
C-7878-072516-SSH-6051	6051	Concrete	0	0.5	07/25/2016	14:50	X	--	--	
C-7878-072516-SSH-6053	6053	Concrete	0	0.5	07/25/2016	14:10	X	--	--	
C-7878-072516-SSH-6055	6055	Concrete	0	0.5	07/25/2016	13:35	X	--	--	
C-7878-072516-SSH-6056	6056	Concrete	0	0.5	07/25/2016	13:40	X	--	--	
TA-NC SDG No.: 240-67660-2										
C-7878-072516-SSH-6029	6029	Concrete	0	0.5	07/25/2016	12:15	X	--	--	
C-7878-072516-SSH-6032	6032	Concrete	0	0.5	07/25/2016	13:55	X	--	--	
C-7878-072516-SSH-6033	6033	Concrete	0	0.5	07/25/2016	14:45	X	--	--	
C-7878-072516-SSH-6034	6034	Concrete	0	0.5	07/25/2016	14:30	X	--	--	
C-7878-072516-SSH-6035	6035	Concrete	0	0.5	07/25/2016	14:25	X	--	--	
C-7878-072516-SSH-6041	6041	Concrete	0	0.5	07/25/2016	13:20	X	--	--	
C-7878-072516-SSH-6052	6052	Concrete	0	0.5	07/25/2016	14:55	X	--	--	MS/MSD
TA-NC SDG No.: 240-68013-1										
C-7878-080416-SSH-001	A1G	Concrete	0	0.5	08/04/2016	12:15	X	--	--	
C-7878-080416-SSH-002	A1H	Concrete	0	0.5	08/04/2016	12:20	X	--	--	
C-7878-080416-SSH-003	A1I	Concrete	0	0.5	08/04/2016	12:25	X	--	--	
C-7878-080416-SSH-004	A1J	Concrete	0	0.5	08/04/2016	12:30	X	--	--	
C-7878-080416-SSH-005	A1K	Concrete	0	0.5	08/04/2016	12:35	X	--	--	
C-7878-080416-SSH-006	A1L	Concrete	0	0.5	08/04/2016	12:40	X	--	--	
C-7878-080416-SSH-007	A1M	Concrete	0	0.5	08/04/2016	12:45	X	--	--	
C-7878-080416-SSH-009	A1N	Concrete	0	0.5	08/04/2016	12:55	X	--	--	
C-7878-080416-SSH-6057	6057	Concrete	0	0.5	08/04/2016	10:55	X	--	--	
C-7878-080416-SSH-6058	6058	Concrete	0	0.5	08/04/2016	11:00	X	--	--	
C-7878-080416-SSH-6059	6059	Concrete	0	0.5	08/04/2016	11:30	X	--	--	

Table 1

Sample Collection and Analysis Summary
Additional Soil/Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Sample Identification	Location	Matrix	Initial Sample Depth (ft. bgs.)	Final Sample Depth (ft. bgs.)	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters: PCB	TCLP VOC	TCLP Metals	Comments
TA-NC SDG No.: 240-68013-1										
C-7878-080416-SSH-6060	6060	Concrete	0	0.5	08/04/2016	11:55	X	--	--	MS/MSD
C-7878-080416-SSH-6061	6061	Concrete	0	0.5	08/04/2016	11:20	X	--	--	
C-7878-080416-SSH-6062	6062	Concrete	0	0.5	08/04/2016	11:25	X	--	--	
C-7878-080416-SSH-6063	6063	Concrete	0	0.5	08/04/2016	11:10	X	--	--	
C-7878-080416-SSH-6064	6064	Concrete	0	0.5	08/04/2016	11:15	X	--	--	
C-7878-080416-SSH-6065	6065	Concrete	0	0.5	08/04/2016	09:45	X	--	--	
C-7878-080416-SSH-6066	6066	Concrete	0	0.5	08/04/2016	09:50	X	--	--	
C-7878-080416-SSH-6067	6067	Concrete	0	0.5	08/04/2016	09:55	X	--	--	
C-7878-080416-SSH-6068	6068	Concrete	0	0.5	08/04/2016	10:00	X	--	--	MS/MSD
C-7878-080416-SSH-6069	6069	Concrete	0	0.5	08/04/2016	11:40	X	--	--	
C-7878-080416-SSH-6070	6070	Concrete	0	0.5	08/04/2016	11:35	X	--	--	
C-7878-080416-SSH-6071	6071	Concrete	0	0.5	08/04/2016	11:50	X	--	--	
C-7878-080416-SSH-6072	6072	Concrete	0	0.5	08/04/2016	11:45	X	--	--	
C-7878-080416-SSH-6073	6073	Concrete	0	0.5	08/04/2016	10:10	X	--	--	
C-7878-080416-SSH-6074	6074	Concrete	0	0.5	08/04/2016	10:20	X	--	--	
C-7878-080416-SSH-6075	6075	Concrete	0	0.5	08/04/2016	10:15	X	--	--	
C-7878-080416-SSH-6076	6076	Concrete	0	0.5	08/04/2016	10:25	X	--	--	
C-7878-080416-SSH-6077	6077	Concrete	0	0.5	08/04/2016	10:45	X	--	--	
C-7878-080416-SSH-6078	6078	Concrete	0	0.5	08/04/2016	10:50	X	--	--	
C-7878-080416-SSH-6079	6079	Concrete	0	0.5	08/04/2016	10:30	X	--	--	
C-7878-080416-SSH-6080	6080	Concrete	0	0.5	08/04/2016	10:35	X	--	--	
TA-NC SDG No.: 240-68013-3										
C-7878-080416-SSH-6081	6081	Concrete	0	0.5	08/04/2016	09:10	X	--	--	
C-7878-080416-SSH-6082	6082	Concrete	0	0.5	08/04/2016	09:15	X	--	--	
C-7878-080416-SSH-6084	6084	Concrete	0	0.5	08/04/2016	09:05	X	--	--	

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Sample Collection and Analysis Summary
Additional Soil/Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Sample Identification	Location	Matrix	Initial Sample Depth (ft. bgs.)	Final Sample Depth (ft. bgs.)	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters: PCB	Analysis/Parameters: TCLP VOC	Analysis/Parameters: TCLP Metals	Comments
TA-NC SDG No.: 240-68583-1										
C-7878-081916-SSH-6089	6089	Concrete	0	0.5	08/19/2016	10:30	X	--	--	
C-7878-081916-SSH-6090	6090	Concrete	0	0.5	08/19/2016	11:35	X	--	--	
C-7878-081916-SSH-6091	6091	Concrete	0	0.5	08/19/2016	11:25	X	--	--	
C-7878-081916-SSH-6092	6092	Concrete	0	0.5	08/19/2016	11:00	X	--	--	
C-7878-081916-SSH-6093	6093	Concrete	0	0.5	08/19/2016	11:20	X	--	--	
C-7878-081916-SSH-6094	6094	Concrete	0	0.5	08/19/2016	12:00	X	--	--	
C-7878-081916-SSH-6095	6095	Concrete	0	0.5	08/19/2016	12:05	X	--	--	
C-7878-081916-SSH-6096	6096	Concrete	0	0.5	08/19/2016	11:50	X	--	--	
C-7878-081916-SSH-6097	6097	Concrete	0	0.5	08/19/2016	11:40	X	--	--	
C-7878-081916-SSH-6098	6098	Concrete	0	0.5	08/19/2016	11:55	X	--	--	
C-7878-081916-SSH-6104	6104	Concrete	0	0.5	08/19/2016	10:35	X	--	--	
C-7878-081916-SSH-6105	6105	Concrete	0	0.5	08/19/2016	10:40	X	--	--	
C-7878-081916-SSH-A1A	A1A	Concrete	0	0.5	08/19/2016	12:25	X	--	--	
C-7878-081916-SSH-A1B	A1B	Concrete	0	0.5	08/19/2016	12:30	X	--	--	
TA-NC SDG No.: 240-68583-3										
C-7878-081916-SSH-6099	6099	Concrete	0	0.5	08/19/2016	11:10	X	--	--	
C-7878-081916-SSH-6100	6100	Concrete	0	0.5	08/19/2016	11:05	X	--	--	
C-7878-081916-SSH-6101	6101	Concrete	0	0.5	08/19/2016	11:15	X	--	--	
C-7878-081916-SSH-6102	6102	Concrete	0	0.5	08/19/2016	11:45	X	--	--	
C-7878-081916-SSH-6103	6103	Concrete	0	0.5	08/19/2016	11:30	X	--	--	
C-7878-081916-SSH-6107	6107	Concrete	0	0.5	08/19/2016	10:55	X	--	--	
C-7878-081916-SSH-A1E	A1E	Concrete	0	0.5	08/19/2016	12:50	X	--	--	
C-7878-081916-SSH-A1F	A1F	Concrete	0	0.5	08/19/2016	12:55	X	--	--	
TA-NC SDG No.: 240-69027-1										
C-7878-090116-SSH-K10	K10	Concrete	0	2.5	09/01/2016	14:00	X	--	--	
C-7878-090116-SSH-K11	K11	Concrete	0	2.5	09/01/2016	14:10	X	--	--	
C-7878-090116-SSH-K12	K12	Concrete	0	2.5	09/01/2016	14:20	X	--	--	

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Sample Collection and Analysis Summary
Additional Soil/Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Sample Identification	Location	Matrix	Initial Sample Depth (ft. bgs.)	Final Sample Depth (ft. bgs.)	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters			Comments
							PCB	TCLP VOC	TCLP Metals	
TA-NC SDG No.: 240-69027-1										
C-7878-090116-SSH-K13	K13	Concrete	0	2.5	09/01/2016	14:30	X	--	--	
C-7878-090116-SSH-K14	K14	Concrete	0	2.5	09/01/2016	14:40	X	--	--	
C-7878-090116-SSH-K15	K15	Concrete	0	2.5	09/01/2016	14:50	X	--	--	
C-7878-090116-SSH-K6	K6	Concrete	0	2.5	09/01/2016	13:30	X	--	--	MS/MSD
C-7878-090116-SSH-K7	K7	Concrete	0	2.5	09/01/2016	13:40	X	--	--	
C-7878-090116-SSH-K8	K8	Concrete	0	2.5	09/01/2016	13:50	X	--	--	
TA-NC SDG No.: 240-69073-1										
C-7878-090216-SSH-6110	6110	Concrete	0	2.5	09/02/2016	12:50	X	--	--	
C-7878-090216-SSH-6114	6114	Concrete	0	2.5	09/02/2016	09:20	X	--	--	
C-7878-090216-SSH-6115	6115	Concrete	0	2.5	09/02/2016	09:10	X	--	--	
C-7878-090216-SSH-6117	6117	Concrete	0	2.5	09/02/2016	12:40	X	--	--	
C-7878-090216-SSH-6118	6118	Concrete	0	2.5	09/02/2016	12:30	X	--	--	
C-7878-090216-SSH-6121	6121	Concrete	0	2.5	09/02/2016	09:30	X	--	--	
C-7878-090216-SSH-6125	6125	Concrete	0	2.5	09/02/2016	09:00	X	--	--	
TA-NC SDG No.: 240-69135-3										
C-7878-090616-SSH-6109	6109	Concrete	0	2.5	09/06/2016	11:00	X	--	--	
C-7878-090616-SSH-6113	6113	Concrete	0	2.5	09/06/2016	10:50	X	--	--	
C-7878-090616-SSH-6116	6116	Concrete	0	2.5	09/06/2016	11:30	X	--	--	
C-7878-090616-SSH-6120	6120	Concrete	0	2.5	09/06/2016	11:50	X	--	--	
C-7878-090616-SSH-6122	6122	Concrete	0	2.5	09/06/2016	12:20	X	--	--	
C-7878-090616-SSH-6123	6123	Concrete	0	2.5	09/06/2016	12:00	X	--	--	
C-7878-090616-SSH-6124	6124	Concrete	0	2.5	09/06/2016	12:10	X	--	--	MS/MSD
C-7878-090616-SSH-6128	6128	Concrete	0	2.5	09/06/2016	11:20	X	--	--	

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Sample Collection and Analysis Summary
Additional Soil/Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Sample Identification	Location	Matrix	Initial Sample Depth (ft. bgs.)	Final Sample Depth (ft. bgs.)	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters			Comments
							PCB	TCLP VOC	TCLP Metals	
TA-NC SDG No.: 240-69135-1										
C-7878-090616-SSH-6126	6126	Concrete	0	2.5	09/06/2016	10:20	X	--	--	
TA-NC SDG No.: 240-69135-4										
C-7878-090616-SSH-6127	6127	Concrete	0	2.5	09/06/2016	10:30	X	--	--	
TA-NC SDG No.: 240-69503-1										
C-7878-091416-SSH-6090B	6090	Concrete	2.5	5	09/14/2016	09:45	X	--	--	
C-7878-091416-SSH-6093B	6093	Concrete	2.5	5	09/14/2016	10:00	X	--	--	
C-7878-091416-SSH-K10B	K10	Concrete	2.5	5	09/14/2016	10:50	X	--	--	
C-7878-091416-SSH-K11B	K11	Concrete	2.5	5	09/14/2016	11:05	X	--	--	
C-7878-091416-SSH-K12B	K12	Concrete	2.5	5	09/14/2016	11:20	X	--	--	
C-7878-091416-SSH-K13B	K13	Concrete	2.5	5	09/14/2016	11:35	X	--	--	
C-7878-091416-SSH-K14B	K14	Concrete	2.5	5	09/14/2016	11:45	X	--	--	
C-7878-091416-SSH-K15B	K15	Concrete	2.5	5	09/14/2016	11:55	X	--	--	MS/MSD
C-7878-091416-SSH-K16	K16	Concrete	0	2.5	09/14/2016	08:35	X	--	--	
C-7878-091416-SSH-K17	K17	Concrete	0	2.5	09/14/2016	08:45	X	--	--	
C-7878-091416-SSH-K18	K18	Concrete	0	2.5	09/14/2016	08:55	X	--	--	
C-7878-091416-SSH-K3	K3	Concrete	0	2.5	09/14/2016	09:10	X	--	--	
C-7878-091416-SSH-K4	K4	Concrete	0	2.5	09/14/2016	09:20	X	--	--	
C-7878-091416-SSH-K5	K5	Concrete	0	2.5	09/14/2016	09:30	X	--	--	
C-7878-091416-SSH-K6B	K6	Concrete	2.5	5	09/14/2016	10:15	X	--	--	
C-7878-091416-SSH-K7B	K7	Concrete	2.5	5	09/14/2016	10:25	X	--	--	
C-7878-091416-SSH-K8B	K8	Concrete	2.5	5	09/14/2016	10:35	--	--	--	

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Sample Collection and Analysis Summary
Additional Soil/Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Sample Identification	Location	Matrix	Initial Sample Depth (ft. bgs.)	Final Sample Depth (ft. bgs.)	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters: PCB	TCLP VOC	TCLP Metals	Comments
TA-NC SDG No.: 240-69825-1										
C-7878-092116-SSH-6131	6131	Concrete	0	2.5	09/21/2016	12:10	X	--	--	
C-7878-092116-SSH-6132	6132	Concrete	0	2.5	09/21/2016	11:50	X	--	--	
C-7878-092116-SSH-6136	6136	Concrete	0	2.5	09/21/2016	11:40	X	--	--	
C-7878-092116-SSH-6140	6140	Concrete	0	2.5	09/21/2016	10:30	X	--	--	
C-7878-092116-SSH-6141	6141	Concrete	0	2.5	09/21/2016	10:10	X	--	--	
C-7878-092116-SSH-6143	6143	Concrete	0	2.5	09/21/2016	10:50	X	--	--	
TA-NC SDG No.: 240-69825-2										
C-7878-092116-SSH-6133	6133	Concrete	0	2.5	09/21/2016	12:00	X	--	--	
C-7878-092116-SSH-6134	6130	Concrete	0	2.5	09/21/2016	12:20	X	--	--	
C-7878-092116-SSH-6137	6137	Concrete	0	2.5	09/21/2016	10:40	X	--	--	
C-7878-092116-SSH-6139	6139	Concrete	0	2.5	09/21/2016	11:20	X	--	--	
C-7878-092116-SSH-6142	6142	Concrete	0	2.5	09/21/2016	10:20	X	--	--	MS/MSD
C-7878-092116-SSH-6144	6144	Concrete	0	2.5	09/21/2016	11:30	X	--	--	
TA-NC SDG No.: 240-69823-1										
C-7878-092116-SSH-K10-1	K10-1	Concrete	0	2.5	09/21/2016	14:50	X	--	--	
C-7878-092116-SSH-K10-3	K10-3	Concrete	0	2.5	09/21/2016	14:30	X	--	--	
C-7878-092116-SSH-K10-5	K10-5	Concrete	0	2.5	09/21/2016	14:40	X	--	--	
C-7878-092116-SSH-K10-7	K10-7	Concrete	0	2.5	09/21/2016	14:20	X	--	--	
C-7878-092116-SSH-K11-1	K11-1	Concrete	0	2.5	09/21/2016	13:20	X	--	--	
C-7878-092116-SSH-K11-3	K11-3	Concrete	0	2.5	09/21/2016	13:00	X	--	--	
C-7878-092116-SSH-K11-5	K11-5	Concrete	0	2.5	09/21/2016	13:10	X	--	--	
C-7878-092116-SSH-K11-7	K11-7	Concrete	0	2.5	09/21/2016	13:30	X	--	--	
TA-NC SDG No.: 240-69820-3										
C-7878-092116-SSH-K10-2	K10-2	Concrete	0	2.5	09/21/2016	15:30	X	--	--	MS/MSD
C-7878-092116-SSH-K11-4	K11-4	Concrete	0	2.5	09/21/2016	13:40	X	--	--	
C-7878-092116-SSH-K11-8	K11-8	Concrete	0	2.5	09/21/2016	14:10	X	--	--	

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Sample Collection and Analysis Summary
Additional Soil/Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

							Analysis/Parameters			
Sample Identification	**Location**	**Matrix**	**Initial Sample Depth (ft. bgs.)**	**Final Sample Depth (ft. bgs.)**	**Collection Date (mm/dd/yyyy)**	**Collection Time (hr:min)**	**PCB**	**TCLP VOC**	**TCLP Metals**	**Comments**
TA-NC SDG No.: 240-69820-2										
C-7878-092116-SSH-K10-6	K10-6	Concrete	0	2.5	09/21/2016	15:20	X	--	--	
C-7878-092116-SSH-K11-2	K11-2	Concrete	0	2.5	09/21/2016	14:00	X	--	--	
C-7878-092116-SSH-K11-6	K11-6	Concrete	0	2.5	09/21/2016	13:50	X	--	--	
TA-NC SDG No.: 240-70107-1										
C-7878-092716-SSH-6134	6134	Concrete	0	2.5	09/27/2016	10:00	X	--	--	
C-7878-092716-SSH-6135	6135	Concrete	0	2.5	09/27/2016	10:10	X	--	--	
C-7878-092716-SSH-K4-1	K4-1	Concrete	0	2.5	09/27/2016	10:30	X	--	--	
C-7878-092716-SSH-K4-2	K4-2	Concrete	0	2.5	09/27/2016	10:40	X	--	--	
C-7878-092716-SSH-K4-3	K4-3	Concrete	0	2.5	09/27/2016	10:50	X	--	--	
C-7878-092716-SSH-K4-4	K4-4	Concrete	0	2.5	09/27/2016	11:00	X	--	--	
TA-NC SDG No.: 240-70108-1										
C-7878-092716-SSH-K16-1	K16-1	Concrete	0	2.5	09/27/2016	14:10	X	--	--	
C-7878-092716-SSH-K16-2	K16-2	Concrete	0	2.5	09/27/2016	14:20	X	--	--	
C-7878-092716-SSH-K16-3	K16-3	Concrete	0	2.5	09/27/2016	14:30	X	--	--	
C-7878-092716-SSH-K16-4	K16-4	Concrete	0	2.5	09/27/2016	14:40	X	--	--	MS/MSD
TA-NC SDG No.: 240-70105-2										
C-7878-092716-SSH-K16-5	K16-5	Concrete	0	2.5	09/27/2016	14:45	X	--	--	
C-7878-092716-SSH-K16-6	K16-6	Concrete	0	2.5	09/27/2016	15:00	X	--	--	
C-7878-092716-SSH-K16-8	K16-8	Concrete	0	2.5	09/27/2016	15:20	X	--	--	
C-7878-092716-SSH-K4-6	K4-6	Concrete	0	2.5	09/27/2016	12:15	X	--	--	MS/MSD
C-7878-092716-SSH-K4-7	K4-7	Concrete	0	2.5	09/27/2016	12:25	X	--	--	
C-7878-092716-SSH-K4-8	K4-8	Concrete	0	2.5	09/27/2016	12:35	X	--	--	
C-7878-092716-SSH-K5-6	K5-6	Concrete	0	2.5	09/27/2016	13:35	X	--	--	
C-7878-092716-SSH-K5-7	K5-7	Concrete	0	2.5	09/27/2016	13:45	X	--	--	
C-7878-092716-SSH-K5-8	K5-8	Concrete	0	2.5	09/27/2016	13:55	X	--	--	

Table 1

Sample Collection and Analysis Summary
Additional Soil/Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Sample Identification	Location	Matrix	Initial Sample Depth (ft. bgs.)	Final Sample Depth (ft. bgs.)	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters			Comments
							PCB	TCLP VOC	TCLP Metals	
TA-NC SDG No.: 240-70105-4										
C-7878-092716-SSH-K16-7	K16-7	Concrete	0	2.5	09/27/2016	15:10	X	--	--	MS/MSD
TA-NC SDG No.: 240-70107-1										
C-7878-092716-SSH-K5-1	K5-1	Concrete	0	2.5	09/27/2016	12:45	X	--	--	
C-7878-092716-SSH-K5-2	K5-2	Concrete	0	2.5	09/27/2016	12:55	X	--	--	
C-7878-092716-SSH-K5-3	K5-3	Concrete	0	2.5	09/27/2016	13:05	X	--	--	
C-7878-092716-SSH-K5-4	K5-4	Concrete	0	2.5	09/27/2016	13:15	X	--	--	
TA-NC SDG No.: 240-70105-3										
C-7878-092716-SSH-K5-5	K5-5	Concrete	0	2.5	09/27/2016	13:25	X	--	--	MS/MSD
TA-NC SDG No.: 240-70468-1										
WP-7878-100516-SSH-WP1	WP1	Wipe	--	--	10/05/2016	08:05	X	--	--	
WP-7878-100516-SSH-WP2	WP2	Wipe	--	--	10/05/2016	08:10	X	--	--	
WP-7878-100516-SSH-WP3	WP3	Wipe	--	--	10/05/2016	08:15	X	--	--	
WP-7878-100516-SSH-WP4	WP4	Wipe	--	--	10/05/2016	08:20	X	--	--	
WP-7878-100516-SSH-WP5	WP5	Wipe	--	--	10/05/2016	08:25	X	--	--	
WP-7878-100516-SSH-WP6	WP6	Wipe	--	--	10/05/2016	08:30	X	--	--	
ALS SDG No.: 1610425										
C-7878-100616-SSH-6242	6242	Concrete	0	2.5	10/06/2016	16:25	X	--	--	
C-7878-100616-SSH-6243	6243	Concrete	0	2.5	10/06/2016	16:35	X	--	--	
C-7878-100616-SSH-6244	6244	Concrete	0	2.5	10/06/2016	15:55	X	--	--	
C-7878-100616-SSH-6246	6246	Concrete	0	2.5	10/06/2016	16:45	X	--	--	
C-7878-100616-SSH-6248	6248	Concrete	0	2.5	10/06/2016	17:05	X	--	--	
C-7878-100616-SSH-6249	6249	Concrete	0	2.5	10/06/2016	16:55	X	--	--	
C-7878-100616-SSH-6250	6250	Concrete	0	2.5	10/06/2016	17:15	X	--	--	
C-7878-100616-SSH-6251	6251	Concrete	0	2.5	10/06/2016	16:05	X	--	--	
C-7878-100616-SSH-6253	6253	Concrete	0	2.5	10/06/2016	14:55	X	--	--	

Table 1

Sample Collection and Analysis Summary
Additional Soil/Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Sample Identification	Location	Matrix	Initial Sample Depth (ft. bgs.)	Final Sample Depth (ft. bgs.)	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters: PCB	TCLP VOC	TCLP Metals	Comments
ALS SDG No.: 1610425										
C-7878-100616-SSH-6254	6254	Concrete	0	2.5	10/06/2016	15:05	X	--	--	
C-7878-100616-SSH-6255	6255	Concrete	0	2.5	10/06/2016	15:15	X	--	--	
C-7878-100616-SSH-6256	6256	Concrete	0	2.5	10/06/2016	15:35	X	--	--	
C-7878-100616-SSH-6257	6257	Concrete	0	2.5	10/06/2016	15:25	X	--	--	
C-7878-100616-SSH-6258	6258	Concrete	0	2.5	10/06/2016	16:15	X	--	--	
C-7878-100616-SSH-6260	6260	Concrete	0	2.5	10/06/2016	15:45	X	--	--	
C-7878-100616-SSH-6261	6261	Concrete	0	2.5	10/06/2016	12:40	X	--	--	
C-7878-100616-SSH-6262	6262	Concrete	0	2.5	10/06/2016	12:30	X	--	--	
C-7878-100616-SSH-6263	6263	Concrete	0	2.5	10/06/2016	12:20	X	--	--	
C-7878-100616-SSH-6264	6264	Concrete	0	2.5	10/06/2016	11:50	X	--	--	
C-7878-100616-SSH-6265	6265	Concrete	0	2.5	10/06/2016	12:10	X	--	--	
C-7878-100616-SSH-6266	6266	Concrete	0	2.5	10/06/2016	13:50	X	--	--	
C-7878-100616-SSH-6268	6268	Concrete	0	2.5	10/06/2016	13:40	X	--	--	
C-7878-100616-SSH-6269	6269	Concrete	0	2.5	10/06/2016	13:20	X	--	--	
C-7878-100616-SSH-6270	6270	Concrete	0	2.5	10/06/2016	13:30	X	--	--	
C-7878-100616-SSH-6271	6271	Concrete	0	2.5	10/06/2016	13:00	X	--	--	
C-7878-100616-SSH-6272	6272	Concrete	0	2.5	10/06/2016	13:10	X	--	--	
C-7878-100616-SSH-6273	6273	Concrete	0	2.5	10/06/2016	11:00	X	--	--	
C-7878-100616-SSH-6274	6274	Concrete	0	2.5	10/06/2016	10:40	X	--	--	
C-7878-100616-SSH-6275	6275	Concrete	0	2.5	10/06/2016	10:50	X	--	--	
C-7878-100616-SSH-6276	6276	Concrete	0	2.5	10/06/2016	11:10	X	--	--	
C-7878-100616-SSH-6277	6277	Concrete	0	2.5	10/06/2016	12:00	X	--	--	
C-7878-100616-SSH-6278	6278	Concrete	0	2.5	10/06/2016	11:20	X	--	--	
C-7878-100616-SSH-6279	6279	Concrete	0	2.5	10/06/2016	11:30	X	--	--	MS/MSD
C-7878-100616-SSH-6280	6280	Concrete	0	2.5	10/06/2016	11:40	X	--	--	
C-7878-100616-SSH-6292	6292	Concrete	0	2.5	10/06/2016	14:30	X	--	--	
C-7878-100616-SSH-6293	6293	Concrete	0	2.5	10/06/2016	14:00	X	--	--	MS/MSD
C-7878-100616-SSH-6294	6294	Concrete	0	2.5	10/06/2016	14:40	X	--	--	
C-7878-100616-SSH-6303	6303	Concrete	0	2.5	10/06/2016	12:50	X	--	--	

Table 1

Sample Collection and Analysis Summary
Additional Soil/Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Sample Identification	Location	Matrix	Initial Sample Depth (ft. bgs.)	Final Sample Depth (ft. bgs.)	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters: PCB	TCLP VOC	TCLP Metals	Comments
ALS SDG No.: 1610536										
C-7878-100716-SSH-6283	6283	Concrete	0	2.5	10/07/2016	09:50	X	--	--	
C-7878-100716-SSH-6290	6290	Concrete	0	2.5	10/07/2016	10:00	X	--	--	
C-7878-100716-SSH-6299	6299	Concrete	0	2.5	10/07/2016	09:30	X	--	--	
C-7878-100716-SSH-6301	6301	Concrete	0	2.5	10/07/2016	09:40	X	--	--	
ALS SDG No.: 1610535										
C-7878-100716-SSH-6282	6282	Concrete	0	2.5	10/07/2016	09:20	X	--	--	
C-7878-100716-SSH-6284	6284	Concrete	0	2.5	10/07/2016	08:50	X	--	--	
C-7878-100716-SSH-6285	6285	Concrete	0	2.5	10/07/2016	08:40	X	--	--	
C-7878-100716-SSH-6286	6286	Concrete	0	2.5	10/07/2016	08:20	X	--	--	
C-7878-100716-SSH-6287	6287	Concrete	0	2.5	10/07/2016	09:00	X	--	--	
C-7878-100716-SSH-6288	6288	Concrete	0	2.5	10/07/2016	09:10	X	--	--	
C-7878-100716-SSH-6289	6289	Concrete	0	2.5	10/07/2016	08:30	X	--	--	
C-7878-100716-SSH-6291	6291	Concrete	0	2.5	10/07/2016	08:00	X	--	--	
C-7878-100716-SSH-6297	6297	Concrete	0	2.5	10/07/2016	07:50	X	--	--	
C-7878-100716-SSH-6298	6298	Concrete	0	2.5	10/07/2016	08:10	X	--	--	
ALS SDG No.: 1610989										
C-7878-101316-SSH-6305	6305	Concrete	0	2.5	10/13/2016	11:00	X	--	--	
C-7878-101316-SSH-6306	6306	Concrete	0	2.5	10/13/2016	11:10	X	--	--	
C-7878-101316-SSH-6307	6307	Concrete	0	2.5	10/13/2016	11:20	X	--	--	
C-7878-101316-SSH-6308	6308	Concrete	0	2.5	10/13/2016	11:35	X	--	--	
C-7878-101316-SSH-6309	6309	Concrete	0	2.5	10/13/2016	11:45	X	--	--	
C-7878-101316-SSH-6310	6310	Concrete	0	2.5	10/13/2016	11:55	X	--	--	
C-7878-101316-SSH-6311	6311	Concrete	0	2.5	10/13/2016	12:30	X	--	--	
C-7878-101316-SSH-6312	6312	Concrete	0	2.5	10/13/2016	12:40	X	--	--	
C-7878-101316-SSH-6313	6313	Concrete	0	2.5	10/13/2016	12:50	X	--	--	
C-7878-101316-SSH-6314	6314	Concrete	0	2.5	10/13/2016	13:00	X	--	--	
C-7878-101316-SSH-6315	6315	Concrete	0	2.5	10/13/2016	13:15	X	--	--	

Table 1

Sample Collection and Analysis Summary
Additional Soil/Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Sample Identification	Location	Matrix	Initial Sample Depth (ft. bgs.)	Final Sample Depth (ft. bgs.)	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters: PCB	TCLP VOC	TCLP Metals	Comments
ALS SDG No.: 1610989										
C-7878-101316-SSH-6316	6316	Concrete	0	2.5	10/13/2016	13:25	X	--	--	
C-7878-101316-SSH-6317	6317	Concrete	0	2.5	10/13/2016	13:35	X	--	--	
C-7878-101316-SSH-6318	6318	Concrete	0	2.5	10/13/2016	13:50	X	--	--	
C-7878-101316-SSH-6319	6319	Concrete	0	2.5	10/13/2016	14:00	X	--	--	
C-7878-101316-SSH-6320	6320	Concrete	0	2.5	10/13/2016	14:10	X	--	--	
ALS SDG No.: 16101207										
S-7878-101816-SSH-I27-A	I27-A	Soil	3	4	10/18/2016	15:00	X	--	--	
S-7878-101816-SSH-I27-B	I27-B	Soil	1.5	2.5	10/18/2016	15:10	X	--	--	
S-7878-101816-SSH-I27-C	I27-C	Soil	0.5	1.5	10/18/2016	15:20	X	--	--	
S-7878-101816-SSH-I27-D	I27-D	Soil	1.5	2.5	10/18/2016	15:30	X	--	--	
S-7878-101816-SSH-I27-E	I27-E	Soil	4	5	10/18/2016	15:40	X	--	--	
ALS SDG No.: 16101208										
C-7878-101816-SSH-6321	6321	Concrete	0	2.5	10/18/2016	13:10	X	--	--	
C-7878-101816-SSH-6323	6323	Concrete	0	2.5	10/18/2016	13:20	X	--	--	
C-7878-101816-SSH-6324	6324	Concrete	0	2.5	10/18/2016	13:40	X	--	--	
C-7878-101816-SSH-6325	6325	Concrete	0	2.5	10/18/2016	13:30	X	--	--	
C-7878-101816-SSH-6327	6327	Concrete	0	2.5	10/18/2016	13:55	X	--	--	
C-7878-101816-SSH-6328	6328	Concrete	0	2.5	10/18/2016	14:05	X	--	--	
C-7878-101816-SSH-6329	6329	Concrete	0	2.5	10/18/2016	14:15	X	--	--	
C-7878-101816-SSH-6331	6331	Concrete	0	2.5	10/18/2016	12:05	X	--	--	
C-7878-101816-SSH-6332	6332	Concrete	0	2.5	10/18/2016	11:05	X	--	--	
C-7878-101816-SSH-6333	6333	Concrete	0	2.5	10/18/2016	11:45	X	--	--	
C-7878-101816-SSH-6334	6334	Concrete	0	2.5	10/18/2016	11:35	X	--	--	
C-7878-101816-SSH-6336	6336	Concrete	0	2.5	10/18/2016	11:15	X	--	--	
C-7878-101816-SSH-6337	6337	Concrete	0	2.5	10/18/2016	11:25	X	--	--	
C-7878-101816-SSH-6338	6338	Concrete	0	2.5	10/18/2016	11:55	X	--	--	
C-7878-101816-SSH-6339	6339	Concrete	0	2.5	10/18/2016	12:50	X	--	--	

Table 1

Sample Collection and Analysis Summary
Additional Soil/Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Sample Identification	Location	Matrix	Initial Sample Depth (ft. bgs.)	Final Sample Depth (ft. bgs.)	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters: PCB	TCLP VOC	TCLP Metals	Comments
ALS SDG No.: 16101208										
C-7878-101816-SSH-6340	6340	Concrete	0	2.5	10/18/2016	13:00	X	--	--	MS/MSD
C-7878-101816-SSH-6341	6341	Concrete	0	2.5	10/18/2016	12:40	X	--	--	
C-7878-101816-SSH-6342	6342	Concrete	0	2.5	10/18/2016	12:20	X	--	--	
C-7878-101816-SSH-6343	6343	Concrete	0	2.5	10/18/2016	12:30	X	--	--	
ALS SDG No.: 16101520										
C-7878-102116-SSH-6345	6345	Concrete	0	2.5	10/21/2016	08:15	X	--	--	
C-7878-102116-SSH-6346	6346	Concrete	0	2.5	10/21/2016	08:25	X	--	--	
C-7878-102116-SSH-6347	6347	Concrete	0	2.5	10/21/2016	08:35	X	--	--	
C-7878-102116-SSH-6348	6348	Concrete	0	2.5	10/21/2016	09:35	X	--	--	
C-7878-102116-SSH-6349	6349	Concrete	0	2.5	10/21/2016	09:45	X	--	--	
C-7878-102116-SSH-6350	6350	Concrete	0	2.5	10/21/2016	09:55	X	--	--	
C-7878-102116-SSH-6351	6351	Concrete	0	2.5	10/21/2016	10:05	X	--	--	
C-7878-102116-SSH-6352	6352	Concrete	0	2.5	10/21/2016	10:15	X	--	--	
C-7878-102116-SSH-6353	6353	Concrete	0	2.5	10/21/2016	10:25	X	--	--	
C-7878-102116-SSH-6354	6354	Concrete	0	2.5	10/21/2016	10:35	X	--	--	
C-7878-102116-SSH-6355	6355	Concrete	0	2.5	10/21/2016	10:45	X	--	--	
C-7878-102116-SSH-6356	6356	Concrete	0	2.5	10/21/2016	10:55	X	--	--	
C-7878-102116-SSH-6357	6357	Concrete	0	2.5	10/21/2016	11:05	X	--	--	
C-7878-102116-SSH-6358	6358	Concrete	0	2.5	10/21/2016	11:15	X	--	--	
ALS SDG No.: 16101936										
C-7878-102816-SSH-6360	6360	Concrete	0	2.5	10/28/2016	08:30	X	--	--	
C-7878-102816-SSH-6361	6361	Concrete	0	2.5	10/28/2016	10:00	X	--	--	
C-7878-102816-SSH-6362	6362	Concrete	0	2.5	10/28/2016	08:40	X	--	--	
C-7878-102816-SSH-6363	6363	Concrete	0	2.5	10/28/2016	08:50	X	--	--	
C-7878-102816-SSH-6365	6365	Concrete	0	2.5	10/28/2016	09:10	X	--	--	
C-7878-102816-SSH-6366	6366	Concrete	0	2.5	10/28/2016	09:20	X	--	--	
C-7878-102816-SSH-6367	6367	Concrete	0	2.5	10/28/2016	09:30	X	--	--	

Table 1

Sample Collection and Analysis Summary
Additional Soil/Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Sample Identification	Location	Matrix	Initial Sample Depth (ft. bgs.)	Final Sample Depth (ft. bgs.)	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters			Comments
							PCB	TCLP VOC	TCLP Metals	
ALS SDG No.: 1611434										
C-7878-110316-SSH-6367	6367	Concrete	0	2.5	11/03/2016	15:00	X	--	--	
C-7878-110316-SSH-6368	6368	Concrete	0	2.5	11/03/2016	15:10	X	--	--	
C-7878-110316-SSH-6369	6369	Concrete	0	2.5	11/03/2016	15:20	X	--	--	
C-7878-110316-SSH-6370	6370	Concrete	0	2.5	11/03/2016	15:30	X	--	--	
C-7878-110316-SSH-6371	6371	Concrete	0	2.5	11/03/2016	15:40	X	--	--	
C-7878-110416-SSH-6372	6372	Concrete	0	2.5	11/04/2016	09:35	X	--	--	
C-7878-110416-SSH-6373	6373	Concrete	0	2.5	11/04/2016	09:45	X	--	--	

Notes:

ft. bgs.	- Feet below ground surface
DUP	- Laboratory Duplicate
FD	- Field Duplicate Sample of sample in parenthesis
MS/MSD	- Matrix Spike/Matrix Spike Duplicate
MS/MSD-P	- Matrix Spike/Matrix Spike Duplicate (Partial parameters)
PCB	- Polychlorinated biphenyls
TCLP	- Toxicity Characteristic Leaching Procedure
VOC	- Volatile Organic Compounds
TA-NC	- TestAmerica Labortories, Inc. - North Canton, Ohio
ALS	- ALS Environmental - Holland, Michigan
SDG	- Sample Delivery Group

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		6001	6005	6059	6062	6069	6070
Sample Name:		C-7878-072516-SSH-6001	C-7878-072516-SSH-6005	C-7878-080416-SSH-6059	C-7878-080416-SSH-6062	C-7878-080416-SSH-6069	C-7878-080416-SSH-6070
Sample Date:		07/25/2016	07/25/2016	08/04/2016	08/04/2016	08/04/2016	08/04/2016
Depth:		0-0.5 in bgs	0-0.5 in bgs	0-0.5 in bgs	0-0.5 in bgs	0-0.5 in bgs	0-0.5 in bgs
Parameters	**Unit**						
Semivolatile Organic Compounds							
Moisture content (dry weight)	%	--	--	--	--	--	--
Pesticides/PCBs							
Aroclor-1016 (PCB-1016)	µg/kg	2000 U	10000 U	2100 U	20000 U	1100 U	2000 U
Aroclor-1221 (PCB-1221)	µg/kg	2000 U	10000 U	2100 U	20000 U	1100 U	2000 U
Aroclor-1232 (PCB-1232)	µg/kg	2000 U	10000 U	2100 U	20000 U	1100 U	2000 U
Aroclor-1242 (PCB-1242)	µg/kg	2000 U	10000 U	2100 U	20000 U	1100 U	2000 U
Aroclor-1248 (PCB-1248)	µg/kg	2000 U	10000 U	2100 U	20000 U	1100 U	2000 U
Aroclor-1254 (PCB-1254)	µg/kg	7300	25000	11000	150000	1500	4400
Aroclor-1260 (PCB-1260)	µg/kg	2000 U	10000 U	2100 U	20000 U	1100 U	2000 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--	--
Volatile Organic Compounds, TCLP							
1,1-Dichloroethene	mg/L	--	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--	--
Metals, TCLP							
Arsenic	mg/L	--	--	--	--	--	--
Barium	mg/L	--	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--
Lead	mg/L	--	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--	--
Silver	mg/L	--	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**6071**	**6090**	**6092**	**6093**	**6095**
Sample Name:		**C-7878-080416-SSH-6071**	**C-7878-081916-SSH-6090**	**C-7878-081916-SSH-6092**	**C-7878-081916-SSH-6093**	**C-7878-081916-SSH-6095**
Sample Date:		**08/04/2016**	**08/19/2016**	**08/19/2016**	**08/19/2016**	**08/19/2016**
Depth:		**0-0.5 in bgs**	**0-0.5 in bgs**	**0-0.5 in bgs**	**0-0.5 in bgs**	**0-0.5 in bgs**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	--	--	--	--	--
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	2300 U	510000 U	5000 U	100000 U	490 U
Aroclor-1221 (PCB-1221)	µg/kg	2300 U	510000 U	5000 U	100000 U	490 U
Aroclor-1232 (PCB-1232)	µg/kg	2300 U	510000 U	5000 U	100000 U	490 U
Aroclor-1242 (PCB-1242)	µg/kg	2300 U	510000 U	5000 U	100000 U	490 U
Aroclor-1248 (PCB-1248)	µg/kg	2300 U	510000 U	5000 U	100000 U	490 U
Aroclor-1254 (PCB-1254)	µg/kg	4600	5200000	34000	1200000	5100
Aroclor-1260 (PCB-1260)	µg/kg	2300 U	510000 U	5000 U	100000 U	490 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**6096**	**6097**	**6100**	**6101**	**6102**
Sample Name:		**C-7878-081916-SSH-6096**	**C-7878-081916-SSH-6097**	**C-7878-081916-SSH-6100**	**C-7878-081916-SSH-6101**	**C-7878-081916-SSH-6102**
Sample Date:		**08/19/2016**	**08/19/2016**	**08/19/2016**	**08/19/2016**	**08/19/2016**
Depth:		**0-0.5 in bgs**	**0-0.5 in bgs**	**0-0.5 in bgs**	**0-0.5 in bgs**	**0-0.5 in bgs**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	--	--	--	--	--
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	1000 U	2000 U	990 U	4900 U	980 U
Aroclor-1221 (PCB-1221)	µg/kg	1000 U	2000 U	990 U	4900 U	980 U
Aroclor-1232 (PCB-1232)	µg/kg	1000 U	2000 U	990 U	4900 U	980 U
Aroclor-1242 (PCB-1242)	µg/kg	1000 U	2000 U	970 J	4900 U	980 U
Aroclor-1248 (PCB-1248)	µg/kg	1000 U	2000 U	990 U	4900 U	980 U
Aroclor-1254 (PCB-1254)	µg/kg	12000	16000	13000	65000	12000
Aroclor-1260 (PCB-1260)	µg/kg	1000 U	2000 U	990 U	4900 U	980 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**6110**	**6114**	**6115**	**6117**	**6118**
Sample Name:		**C-7878-090216-SSH-6110**	**C-7878-090216-SSH-6114**	**C-7878-090216-SSH-6115**	**C-7878-090216-SSH-6117**	**C-7878-090216-SSH-6118**
Sample Date:		**09/02/2016**	**09/02/2016**	**09/02/2016**	**09/02/2016**	**09/02/2016**
Depth:		**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	--	--	--	--	--
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	1000 U	5200 U	100 U	10000 U	52000 U
Aroclor-1221 (PCB-1221)	µg/kg	1000 U	5200 U	100 U	10000 U	52000 U
Aroclor-1232 (PCB-1232)	µg/kg	1000 U	5200 U	100 U	10000 U	52000 U
Aroclor-1242 (PCB-1242)	µg/kg	1000 U	5200 U	100 U	10000 U	52000 U
Aroclor-1248 (PCB-1248)	µg/kg	1000 U	5200 U	100 U	10000 U	52000 U
Aroclor-1254 (PCB-1254)	µg/kg	11000	70000	2000	150000	450000
Aroclor-1260 (PCB-1260)	µg/kg	1000 U	5200 U	100 U	10000 U	52000 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**6121**	**6122**	**6124**	**6125**	**6242**
Sample Name:		**C-7878-090216-SSH-6121**	**C-7878-090616-SSH-6122**	**C-7878-090616-SSH-6124**	**C-7878-090216-SSH-6125**	**C-7878-100616-SSH-6242**
Sample Date:		**09/02/2016**	**09/06/2016**	**09/06/2016**	**09/02/2016**	**10/06/2016**
Depth:		**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	--	--	--	--	3.2
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	20000 U	980 U	2000 U	500 U	83 U
Aroclor-1221 (PCB-1221)	µg/kg	20000 U	980 U	2000 U	500 U	83 U
Aroclor-1232 (PCB-1232)	µg/kg	20000 U	980 U	2000 U	500 U	83 U
Aroclor-1242 (PCB-1242)	µg/kg	20000 U	980 U	2000 U	500 U	83 U
Aroclor-1248 (PCB-1248)	µg/kg	20000 U	980 U	2000 U	500 U	83 U
Aroclor-1254 (PCB-1254)	µg/kg	460000	9000	20000	3800	15000
Aroclor-1260 (PCB-1260)	µg/kg	20000 U	980 U	2000 U	500 U	83 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**6243**	**6244**	**6246**	**6248**	**6249**
Sample Name:		**C-7878-100616-SSH-6243**	**C-7878-100616-SSH-6244**	**C-7878-100616-SSH-6246**	**C-7878-100616-SSH-6248**	**C-7878-100616-SSH-6249**
Sample Date:		**10/06/2016**	**10/06/2016**	**10/06/2016**	**10/06/2016**	**10/06/2016**
Depth:		**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	3.9	2.4	6.1	3.0	2.6
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	86 U	83 U	87 U	81 U	85 U
Aroclor-1221 (PCB-1221)	µg/kg	86 U	83 U	87 U	81 U	85 U
Aroclor-1232 (PCB-1232)	µg/kg	86 U	83 U	87 U	81 U	85 U
Aroclor-1242 (PCB-1242)	µg/kg	86 U	83 U	87 U	81 U	85 U
Aroclor-1248 (PCB-1248)	µg/kg	86 U	83 U	87 U	81 U	85 U
Aroclor-1254 (PCB-1254)	µg/kg	1600	81000	720	14000	4000
Aroclor-1260 (PCB-1260)	µg/kg	86 U	83 U	87 U	81 U	85 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**6250**	**6251**	**6253**	**6254**	**6255**
Sample Name:		**C-7878-100616-SSH-6250**	**C-7878-100616-SSH-6251**	**C-7878-100616-SSH-6253**	**C-7878-100616-SSH-6254**	**C-7878-100616-SSH-6255**
Sample Date:		**10/06/2016**	**10/06/2016**	**10/06/2016**	**10/06/2016**	**10/06/2016**
Depth:		**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	3.5	4.6	2.7	1.1	2.8
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	82 U	85 U	83 U	82 U	85 U
Aroclor-1221 (PCB-1221)	µg/kg	82 U	85 U	83 U	82 U	85 U
Aroclor-1232 (PCB-1232)	µg/kg	82 U	85 U	83 U	82 U	85 U
Aroclor-1242 (PCB-1242)	µg/kg	82 U	85 U	83 U	82 U	85 U
Aroclor-1248 (PCB-1248)	µg/kg	82 U	85 U	83 U	82 U	85 U
Aroclor-1254 (PCB-1254)	µg/kg	14000	18000	4500	2000	1600
Aroclor-1260 (PCB-1260)	µg/kg	82 U	85 U	83 U	82 U	85 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**6256**	**6257**	**6258**	**6260**	**6283**
Sample Name:		**C-7878-100616-SSH-6256**	**C-7878-100616-SSH-6257**	**C-7878-100616-SSH-6258**	**C-7878-100616-SSH-6260**	**C-7878-100716-SSH-6283**
Sample Date:		**10/06/2016**	**10/06/2016**	**10/06/2016**	**10/06/2016**	**10/07/2016**
Depth:		**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	0.51	2.5	6.3	1.6	2.3
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	82 U	83 U	86 U	84 U	84 U
Aroclor-1221 (PCB-1221)	µg/kg	82 U	83 U	86 U	84 U	84 U
Aroclor-1232 (PCB-1232)	µg/kg	82 U	83 U	86 U	84 U	84 U
Aroclor-1242 (PCB-1242)	µg/kg	82 U	83 U	86 U	84 U	84 U
Aroclor-1248 (PCB-1248)	µg/kg	82 U	83 U	86 U	84 U	84 U
Aroclor-1254 (PCB-1254)	µg/kg	910	1400	4000	13000	16000
Aroclor-1260 (PCB-1260)	µg/kg	82 U	83 U	86 U	84 U	84 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**6290**	**6299**	**6301**	**6308**	**6309**
Sample Name:		**C-7878-100716-SSH-6290**	**C-7878-100716-SSH-6299**	**C-7878-100716-SSH-6301**	**C-7878-101316-SSH-6308**	**C-7878-101316-SSH-6309**
Sample Date:		**10/07/2016**	**10/07/2016**	**10/07/2016**	**10/13/2016**	**10/13/2016**
Depth:		**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	4.2	3.2	2.5	2.3	1.3
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	82 U	83 U	84 U	82 U	81 U
Aroclor-1221 (PCB-1221)	µg/kg	82 U	83 U	84 U	82 U	81 U
Aroclor-1232 (PCB-1232)	µg/kg	82 U	83 U	84 U	82 U	81 U
Aroclor-1242 (PCB-1242)	µg/kg	82 U	83 U	84 U	82 U	81 U
Aroclor-1248 (PCB-1248)	µg/kg	82 U	83 U	84 U	82 U	81 U
Aroclor-1254 (PCB-1254)	µg/kg	8900	5700	360000	3300	9100
Aroclor-1260 (PCB-1260)	µg/kg	82 U	83 U	84 U	82 U	81 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**6310**	**6311**	**6312**	**6313**	**6314**
Sample Name:		**C-7878-101316-SSH-6310**	**C-7878-101316-SSH-6311**	**C-7878-101316-SSH-6312**	**C-7878-101316-SSH-6313**	**C-7878-101316-SSH-6314**
Sample Date:		**10/13/2016**	**10/13/2016**	**10/13/2016**	**10/13/2016**	**10/13/2016**
Depth:		**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	2.4	2.9	2.9	0.37	2.0
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	82 U	82 U	82 U	81 U	81 U
Aroclor-1221 (PCB-1221)	µg/kg	82 U	82 U	82 U	81 U	81 U
Aroclor-1232 (PCB-1232)	µg/kg	82 U	82 U	82 U	81 U	81 U
Aroclor-1242 (PCB-1242)	µg/kg	82 U	82 U	82 U	81 U	81 U
Aroclor-1248 (PCB-1248)	µg/kg	82 U	82 U	82 U	81 U	81 U
Aroclor-1254 (PCB-1254)	µg/kg	14000	8000	17000	2100	22000
Aroclor-1260 (PCB-1260)	µg/kg	82 U	82 U	82 U	81 U	81 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**6315**	**6316**	**6317**	**6318**	**6319**
Sample Name:		**C-7878-101316-SSH-6315**	**C-7878-101316-SSH-6316**	**C-7878-101316-SSH-6317**	**C-7878-101316-SSH-6318**	**C-7878-101316-SSH-6319**
Sample Date:		**10/13/2016**	**10/13/2016**	**10/13/2016**	**10/13/2016**	**10/13/2016**
Depth:		**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	4.5	2.6	4.0	4.4	3.7
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	83 U	85 U	85 U	84 U	82 U
Aroclor-1221 (PCB-1221)	µg/kg	83 U	85 U	85 U	84 U	82 U
Aroclor-1232 (PCB-1232)	µg/kg	83 U	85 U	85 U	84 U	82 U
Aroclor-1242 (PCB-1242)	µg/kg	83 U	85 U	85 U	84 U	82 U
Aroclor-1248 (PCB-1248)	µg/kg	83 U	85 U	85 U	84 U	82 U
Aroclor-1254 (PCB-1254)	µg/kg	3800	3900	990	200	25000
Aroclor-1260 (PCB-1260)	µg/kg	83 U	85 U	85 U	84 U	82 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**6320**	**6345**	**6346**	**6347**	**6348**
Sample Name:		**C-7878-101316-SSH-6320**	**C-7878-102116-SSH-6345**	**C-7878-102116-SSH-6346**	**C-7878-102116-SSH-6347**	**C-7878-102116-SSH-6348**
Sample Date:		**10/13/2016**	**10/21/2016**	**10/21/2016**	**10/21/2016**	**10/21/2016**
Depth:		**0-2.5 in bgs**	**0-2.5 in BGS**	**0-2.5 in BGS**	**0-2.5 in BGS**	**0-2.5 in BGS**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	5.1	4.6	2.8	3.4	5.3
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	85 U	86 U	83 U	83 U	85 U
Aroclor-1221 (PCB-1221)	µg/kg	85 U	86 U	83 U	83 U	85 U
Aroclor-1232 (PCB-1232)	µg/kg	85 U	86 U	83 U	83 U	85 U
Aroclor-1242 (PCB-1242)	µg/kg	85 U	86 U	83 U	83 U	85 U
Aroclor-1248 (PCB-1248)	µg/kg	85 U	86 U	83 U	83 U	85 U
Aroclor-1254 (PCB-1254)	µg/kg	20000	6300	10000	6800	3200
Aroclor-1260 (PCB-1260)	µg/kg	85 U	86 U	83 U	83 U	85 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**6349**	**6350**	**6351**	**6352**	**6353**
Sample Name:		**C-7878-102116-SSH-6349**	**C-7878-102116-SSH-6350**	**C-7878-102116-SSH-6351**	**C-7878-102116-SSH-6352**	**C-7878-102116-SSH-6353**
Sample Date:		**10/21/2016**	**10/21/2016**	**10/21/2016**	**10/21/2016**	**10/21/2016**
Depth:		**0-2.5 in BGS**	**0-2.5 in BGS**	**0-2.5 in BGS**	**0-2.5 in BGS**	**0-2.5 in BGS**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	3.5	4.9	5.7	2.6	3.1
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	85 U	84 U	88 U	84 U	81 U
Aroclor-1221 (PCB-1221)	µg/kg	85 U	84 U	88 U	84 U	81 U
Aroclor-1232 (PCB-1232)	µg/kg	85 U	84 U	88 U	84 U	81 U
Aroclor-1242 (PCB-1242)	µg/kg	85 U	360	88 U	84 U	81 U
Aroclor-1248 (PCB-1248)	µg/kg	85 U	84 U	88 U	84 U	81 U
Aroclor-1254 (PCB-1254)	µg/kg	7000	870	37000	1700	5900
Aroclor-1260 (PCB-1260)	µg/kg	85 U	84 U	88 U	84 U	81 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**6354**	**6355**	**6356**	**6357**	**6358**
Sample Name:		**C-7878-102116-SSH-6354**	**C-7878-102116-SSH-6355**	**C-7878-102116-SSH-6356**	**C-7878-102116-SSH-6357**	**C-7878-102116-SSH-6358**
Sample Date:		**10/21/2016**	**10/21/2016**	**10/21/2016**	**10/21/2016**	**10/21/2016**
Depth:		**0-2.5 in BGS**	**0-2.5 in BGS**	**0-2.5 in BGS**	**0-2.5 in BGS**	**0-2.5 in BGS**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	0.71	2.6	2.6	5.7	2.3
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	75 U	81 U	81 U	81 U	83 U
Aroclor-1221 (PCB-1221)	µg/kg	75 U	81 U	81 U	81 U	83 U
Aroclor-1232 (PCB-1232)	µg/kg	75 U	81 U	81 U	81 U	83 U
Aroclor-1242 (PCB-1242)	µg/kg	75 U	81 U	81 U	81 U	83 U
Aroclor-1248 (PCB-1248)	µg/kg	75 U	81 U	81 U	81 U	83 U
Aroclor-1254 (PCB-1254)	µg/kg	7300	47000	1400	7500	12000
Aroclor-1260 (PCB-1260)	µg/kg	75 U	81 U	81 U	81 U	83 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**6362**	**6363**	**6365**	**6366**	**6367**
Sample Name:		**C-7878-102816-SSH-6362**	**C-7878-102816-SSH-6363**	**C-7878-102816-SSH-6365**	**C-7878-102816-SSH-6366**	**C-7878-110316-SSH-6367**
Sample Date:		**10/28/2016**	**10/28/2016**	**10/28/2016**	**10/28/2016**	**11/03/2016**
Depth:		**0-2.5 in BGS**	**0-2.5 in BGS**	**0-2.5 in BGS**	**0-2.5 in BGS**	**0-2.5 in bgs**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	4.4	4.1	2.5	5.0	4.3
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	87 U	100 U	89 U	89 U	85 U
Aroclor-1221 (PCB-1221)	µg/kg	87 U	100 U	89 U	89 U	85 U
Aroclor-1232 (PCB-1232)	µg/kg	87 U	100 U	89 U	89 U	85 U
Aroclor-1242 (PCB-1242)	µg/kg	87 U	100 U	89 U	89 U	85 U
Aroclor-1248 (PCB-1248)	µg/kg	87 U	100 U	89 U	89 U	85 U
Aroclor-1254 (PCB-1254)	µg/kg	600000	1300	32000	1500	9800
Aroclor-1260 (PCB-1260)	µg/kg	87 U	100 U	89 U	89 U	85 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**6368**	**6369**	**6370**	**6371**	**A1A**
Sample Name:		**C-7878-110316-SSH-6368**	**C-7878-110316-SSH-6369**	**C-7878-110316-SSH-6370**	**C-7878-110316-SSH-6371**	**C-7878-081916-SSH-A1A**
Sample Date:		**11/03/2016**	**11/03/2016**	**11/03/2016**	**11/03/2016**	**08/19/2016**
Depth:		**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**	**0-0.5 in bgs**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	2.9	2.1	6.7	4.8	--
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	79 U	82 U	86 U	87 U	2000 U
Aroclor-1221 (PCB-1221)	µg/kg	79 U	82 U	86 U	87 U	2000 U
Aroclor-1232 (PCB-1232)	µg/kg	79 U	82 U	86 U	87 U	2000 U
Aroclor-1242 (PCB-1242)	µg/kg	79 U	82 U	86 U	87 U	2000 U
Aroclor-1248 (PCB-1248)	µg/kg	79 U	82 U	86 U	87 U	2000 U
Aroclor-1254 (PCB-1254)	µg/kg	13000	1300	750	1700	18000
Aroclor-1260 (PCB-1260)	µg/kg	79 U	82 U	86 U	87 U	2000 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**A1F**	**A1G**	**A1H**	**A1I**	**A1J**
Sample Name:		**C-7878-081916-SSH-A1F**	**C-7878-080416-SSH-001**	**C-7878-080416-SSH-002**	**C-7878-080416-SSH-003**	**C-7878-080416-SSH-004**
Sample Date:		**08/19/2016**	**08/04/2016**	**08/04/2016**	**08/04/2016**	**08/04/2016**
Depth:		**0-0.5 in bgs**	**0-0.5 in bgs**	**0-0.5 in bgs**	**0-0.5 in bgs**	**0-0.5 in bgs**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	--	--	--	--	--
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	490 U	450 U	200 U	2000 U	3900 U
Aroclor-1221 (PCB-1221)	µg/kg	490 U	450 U	200 U	2000 U	3900 U
Aroclor-1232 (PCB-1232)	µg/kg	490 U	450 U	200 U	2000 U	3900 U
Aroclor-1242 (PCB-1242)	µg/kg	490 U	450 U	200 U	2000 U	3900 U
Aroclor-1248 (PCB-1248)	µg/kg	490 U	450 U	200 U	2000 U	3900 U
Aroclor-1254 (PCB-1254)	µg/kg	2400	2000	280	15000	20000
Aroclor-1260 (PCB-1260)	µg/kg	490 U	450 U	200 U	2000 U	3900 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		A1K	A1L	A1M	A1N	K6	K7
Sample Name:		C-7878-080416-SSH-005	C-7878-080416-SSH-006	C-7878-080416-SSH-007	C-7878-080416-SSH-009	C-7878-090116-SSH-K6	C-7878-090116-SSH-K7
Sample Date:		08/04/2016	08/04/2016	08/04/2016	08/04/2016	09/01/2016	09/01/2016
Depth:		0-0.5 in bgs	0-0.5 in bgs	0-0.5 in bgs	0-0.5 in bgs	0-2.5 in bgs	0-2.5 in bgs
Parameters	**Unit**						
Semivolatile Organic Compounds							
Moisture content (dry weight)	%	--	--	--	--	--	--
Pesticides/PCBs							
Aroclor-1016 (PCB-1016)	µg/kg	2400 U	2000 U	250 U	2000 U	510 U	1000 U
Aroclor-1221 (PCB-1221)	µg/kg	2400 U	2000 U	250 U	2000 U	510 U	1000 U
Aroclor-1232 (PCB-1232)	µg/kg	2400 U	2000 U	250 U	2000 U	510 U	1000 U
Aroclor-1242 (PCB-1242)	µg/kg	2400 U	2000 U	250 U	2000 U	510 U	1000 U
Aroclor-1248 (PCB-1248)	µg/kg	2400 U	2000 U	250 U	2000 U	510 U	1000 U
Aroclor-1254 (PCB-1254)	µg/kg	6900	5300	1900	7700	2400	9300
Aroclor-1260 (PCB-1260)	µg/kg	2400 U	2000 U	250 U	2000 U	510 U	1000 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--	--
Volatile Organic Compounds, TCLP							
1,1-Dichloroethene	mg/L	--	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--	--
Metals, TCLP							
Arsenic	mg/L	--	--	--	--	--	--
Barium	mg/L	--	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--	--
Lead	mg/L	--	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--	--
Silver	mg/L	--	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**K8**	**K10**	**K10-1**	**K10-2**	**K10-3**
Sample Name:		**C-7878-090116-SSH-K8**	**C-7878-090116-SSH-K10**	**C-7878-092116-SSH-K10-1**	**C-7878-092116-SSH-K10-2**	**C-7878-092116-SSH-K10-3**
Sample Date:		**09/01/2016**	**09/01/2016**	**09/21/2016**	**09/21/2016**	**09/21/2016**
Depth:		**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	--	--	--	--	--
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	100 U	1000 U	530 U	100 UJ	100 U
Aroclor-1221 (PCB-1221)	µg/kg	100 U	1000 U	530 U	100 UJ	100 U
Aroclor-1232 (PCB-1232)	µg/kg	100 U	1000 U	530 U	100 UJ	100 U
Aroclor-1242 (PCB-1242)	µg/kg	100 U	1000 U	530 U	100 UJ	100 U
Aroclor-1248 (PCB-1248)	µg/kg	100 U	1000 U	530 U	100 UJ	100 U
Aroclor-1254 (PCB-1254)	µg/kg	1400	13000	8200	1600 J	1300
Aroclor-1260 (PCB-1260)	µg/kg	100 U	1000 U	530 U	100 UJ	100 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		K10-5	K10-6	K10-7	K11	K11-1
Sample Name:		C-7878-092116-SSH-K10-5	C-7878-092116-SSH-K10-6	C-7878-092116-SSH-K10-7	C-7878-090116-SSH-K11	C-7878-092116-SSH-K11-1
Sample Date:		09/21/2016	09/21/2016	09/21/2016	09/01/2016	09/21/2016
Depth:		0-2.5 in bgs	0-2.5 in bgs	0-2.5 in bgs	0-2.5 in bgs	0-2.5 in bgs
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	--	--	--	--	--
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	5100 U	510 U	1000 U	5100 U	1000 U
Aroclor-1221 (PCB-1221)	µg/kg	5100 U	510 U	1000 U	5100 U	1000 U
Aroclor-1232 (PCB-1232)	µg/kg	5100 U	510 U	1000 U	5100 U	1000 U
Aroclor-1242 (PCB-1242)	µg/kg	5100 U	510 U	1000 U	5100 U	1000 U
Aroclor-1248 (PCB-1248)	µg/kg	5100 U	510 U	1000 U	5100 U	1000 U
Aroclor-1254 (PCB-1254)	µg/kg	43000	270 J	5600	120000	11000
Aroclor-1260 (PCB-1260)	µg/kg	5100 U	510 U	1000 U	5100 U	1000 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**K11-2**	**K11-3**	**K11-4**	**K11-5**	**K11-6**
Sample Name:		**C-7878-092116-SSH-K11-2**	**C-7878-092116-SSH-K11-3**	**C-7878-092116-SSH-K11-4**	**C-7878-092116-SSH-K11-5**	**C-7878-092116-SSH-K11-6**
Sample Date:		**09/21/2016**	**09/21/2016**	**09/21/2016**	**09/21/2016**	**09/21/2016**
Depth:		**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	--	--	--	--	--
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	2000 U	100 U	100 UJ	1000 U	1100 U
Aroclor-1221 (PCB-1221)	µg/kg	2000 U	100 U	100 UJ	1000 U	1100 U
Aroclor-1232 (PCB-1232)	µg/kg	2000 U	100 U	100 UJ	1000 U	1100 U
Aroclor-1242 (PCB-1242)	µg/kg	2000 U	100 U	100 UJ	1000 U	1100 U
Aroclor-1248 (PCB-1248)	µg/kg	2000 U	100 U	100 UJ	1000 U	1100 U
Aroclor-1254 (PCB-1254)	µg/kg	10000	1300	3300 J	21000	5400
Aroclor-1260 (PCB-1260)	µg/kg	2000 U	100 U	100 UJ	1000 U	1100 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		K11-7	K11-8	K12	K13	K14
Sample Name:		C-7878-092116-SSH-K11-7	C-7878-092116-SSH-K11-8	C-7878-090116-SSH-K12	C-7878-090116-SSH-K13	C-7878-090116-SSH-K14
Sample Date:		09/21/2016	09/21/2016	09/01/2016	09/01/2016	09/01/2016
Depth:		0-2.5 in bgs	0-2.5 in bgs	0-2.5 in bgs	0-2.5 in bgs	0-2.5 in bgs
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	--	--	--	--	--
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	1000 U	1000 UJ	100 U	100 U	520 U
Aroclor-1221 (PCB-1221)	µg/kg	1000 U	1000 UJ	100 U	100 U	520 U
Aroclor-1232 (PCB-1232)	µg/kg	1000 U	1000 UJ	100 U	100 U	520 U
Aroclor-1242 (PCB-1242)	µg/kg	1000 U	1000 UJ	100 U	100 U	520 U
Aroclor-1248 (PCB-1248)	µg/kg	1000 U	1000 UJ	100 U	100 U	520 U
Aroclor-1254 (PCB-1254)	µg/kg	9100	14000 J	1100	790	2600
Aroclor-1260 (PCB-1260)	µg/kg	1000 U	1000 UJ	100 U	100 U	520 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		K15	16001	16002	6000	6002
Sample Name:		C-7878-090116-SSH-K15	C-7878-042116-SSH-16001	C-7878-042116-SSH-16002	C-7878-072516-SSH-6000	C-7878-072516-SSH-6002
Sample Date:		09/01/2016	04/21/2016	04/21/2016	07/25/2016	07/25/2016
Depth:		0-2.5 in bgs	0-2.5 in bgs	0-2.5 in bgs	0-0.5 in bgs	0-0.5 in bgs
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	--	--	--	--	--
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	100 U	200 U	210 U	200 U	200 U
Aroclor-1221 (PCB-1221)	µg/kg	100 U	200 U	210 U	200 U	200 U
Aroclor-1232 (PCB-1232)	µg/kg	100 U	200 U	210 U	200 U	200 U
Aroclor-1242 (PCB-1242)	µg/kg	100 U	200 U	210 U	200 U	200 U
Aroclor-1248 (PCB-1248)	µg/kg	100 U	220	210 U	200 U	200 U
Aroclor-1254 (PCB-1254)	µg/kg	330	200 U	280	2200	610
Aroclor-1260 (PCB-1260)	µg/kg	100 U	200 U	210 U	200 U	200 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**6003**	**6004**	**6006**	**6007**	**6008**
Sample Name:		**C-7878-072516-SSH-6003**	**C-7878-072516-SSH-6004**	**C-7878-072516-SSH-6006**	**C-7878-072516-SSH-6007**	**C-7878-072516-SSH-6008**
Sample Date:		**07/25/2016**	**07/25/2016**	**07/25/2016**	**07/25/2016**	**07/25/2016**
Depth:		**0-0.5 in bgs**	**0-0.5 in bgs**	**0-0.5 in bgs**	**0-0.5 in bgs**	**0-0.5 in bgs**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	--	--	--	--	--
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	220 U	2000 U	1000 U	980 U	990 U
Aroclor-1221 (PCB-1221)	µg/kg	220 U	2000 U	1000 U	980 U	990 U
Aroclor-1232 (PCB-1232)	µg/kg	220 U	2000 U	1000 U	980 U	990 U
Aroclor-1242 (PCB-1242)	µg/kg	220 U	2000 U	1000 U	980 U	990 U
Aroclor-1248 (PCB-1248)	µg/kg	220 U	2000 U	1000 U	980 U	990 U
Aroclor-1254 (PCB-1254)	µg/kg	540	13000	5500	2600	2800
Aroclor-1260 (PCB-1260)	µg/kg	220 U	2000 U	1000 U	980 U	990 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**6009**	**6010**	**6011**	**6012**	**6013**
Sample Name:		**C-7878-072516-SSH-6009**	**C-7878-072516-SSH-6010**	**C-7878-072516-SSH-6011**	**C-7878-072516-SSH-6012**	**C-7878-072516-SSH-6013**
Sample Date:		**07/25/2016**	**07/25/2016**	**07/25/2016**	**07/25/2016**	**07/25/2016**
Depth:		**0-0.5 in bgs**	**0-0.5 in bgs**	**0-0.5 in bgs**	**0-0.5 in bgs**	**0-0.5 in bgs**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	--	--	--	--	--
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	200 U	990 U	1000 U	2000 U	2000 U
Aroclor-1221 (PCB-1221)	µg/kg	200 U	990 U	1000 U	2000 U	2000 U
Aroclor-1232 (PCB-1232)	µg/kg	200 U	990 U	1000 U	2000 U	2000 U
Aroclor-1242 (PCB-1242)	µg/kg	200 U	990 U	1000 U	2000 U	2000 U
Aroclor-1248 (PCB-1248)	µg/kg	200 U	990 U	1000 U	2000 U	2000 U
Aroclor-1254 (PCB-1254)	µg/kg	1300	1800	4600	13000	7800
Aroclor-1260 (PCB-1260)	µg/kg	200 U	990 U	1000 U	2000 U	2000 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**6014**	**6015**	**6016**	**6017**	**6018**
Sample Name:		**C-7878-072516-SSH-6014**	**C-7878-072516-SSH-6015**	**C-7878-072516-SSH-6016**	**C-7878-072516-SSH-6017**	**C-7878-072516-SSH-6018**
Sample Date:		**07/25/2016**	**07/25/2016**	**07/25/2016**	**07/25/2016**	**07/25/2016**
Depth:		**0-0.5 in bgs**	**0-0.5 in bgs**	**0-0.5 in bgs**	**0-0.5 in bgs**	**0-0.5 in bgs**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	--	--	--	--	--
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	210 U	970 U	2000 U	200 U	200 U
Aroclor-1221 (PCB-1221)	µg/kg	210 U	970 U	2000 U	200 U	200 U
Aroclor-1232 (PCB-1232)	µg/kg	210 U	970 U	2000 U	200 U	200 U
Aroclor-1242 (PCB-1242)	µg/kg	210 U	970 U	2000 U	200 U	200 U
Aroclor-1248 (PCB-1248)	µg/kg	210 U	970 U	2000 U	200 U	200 U
Aroclor-1254 (PCB-1254)	µg/kg	210 U	4300	8500	110 J	520
Aroclor-1260 (PCB-1260)	µg/kg	210 U	970 U	2000 U	200 U	200 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		6019	6020	6021	6022	6023
Sample Name:		C-7878-072516-SSH-6019	C-7878-072516-SSH-6020	C-7878-072516-SSH-6021	C-7878-072516-SSH-6022	C-7878-072516-SSH-6023
Sample Date:		07/25/2016	07/25/2016	07/25/2016	07/25/2016	07/25/2016
Depth:		0-0.5 in bgs	0-0.5 in bgs	0-0.5 in bgs	0-0.5 in bgs	0-0.5 in bgs
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	--	--	--	--	--
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	200 U	200 U	200 U	200 U	190 U
Aroclor-1221 (PCB-1221)	µg/kg	200 U	200 U	200 U	200 U	190 U
Aroclor-1232 (PCB-1232)	µg/kg	200 U	200 U	200 U	200 U	190 U
Aroclor-1242 (PCB-1242)	µg/kg	200 U	200 U	200 U	200 U	190 U
Aroclor-1248 (PCB-1248)	µg/kg	200 U	200 U	200 U	200 U	190 U
Aroclor-1254 (PCB-1254)	µg/kg	200 U	200 U	200 U	1500	1900 J
Aroclor-1260 (PCB-1260)	µg/kg	200 U	200 U	200 U	200 U	190 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**6024**	**6025**	**6026**	**6027**	**6028**
Sample Name:		**C-7878-072516-SSH-6024**	**C-7878-072516-SSH-6025**	**C-7878-072516-SSH-6026**	**C-7878-072516-SSH-6027**	**C-7878-072516-SSH-6028**
Sample Date:		**07/25/2016**	**07/25/2016**	**07/25/2016**	**07/25/2016**	**07/25/2016**
Depth:		**0-0.5 in bgs**	**0-0.5 in bgs**	**0-0.5 in bgs**	**0-0.5 in bgs**	**0-0.5 in bgs**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	--	--	--	--	--
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	210 U	200 U	990 U	960 U	980 U
Aroclor-1221 (PCB-1221)	µg/kg	210 U	200 U	990 U	960 U	980 U
Aroclor-1232 (PCB-1232)	µg/kg	210 U	200 U	990 U	960 U	980 U
Aroclor-1242 (PCB-1242)	µg/kg	210 U	200 U	990 U	960 U	980 U
Aroclor-1248 (PCB-1248)	µg/kg	210 U	200 U	990 U	960 U	980 U
Aroclor-1254 (PCB-1254)	µg/kg	210 U	200 U	2400	4800	2300
Aroclor-1260 (PCB-1260)	µg/kg	210 U	200 U	990 U	960 U	980 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**6029**	**6030**	**6031**	**6032**	**6033**
Sample Name:		**C-7878-072516-SSH-6029**	**C-7878-072516-SSH-6030**	**C-7878-072516-SSH-6031**	**C-7878-072516-SSH-6032**	**C-7878-072516-SSH-6033**
Sample Date:		**07/25/2016**	**07/25/2016**	**07/25/2016**	**07/25/2016**	**07/25/2016**
Depth:		**0-0.5 in bgs**	**0-0.5 in bgs**	**0-0.5 in bgs**	**0-0.5 in bgs**	**0-0.5 in bgs**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	--	--	--	--	--
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	1000 U	20000 U	2000 U	210 U	1000 U
Aroclor-1221 (PCB-1221)	µg/kg	1000 U	20000 U	2000 U	210 U	1000 U
Aroclor-1232 (PCB-1232)	µg/kg	1000 U	20000 U	2000 U	210 U	1000 U
Aroclor-1242 (PCB-1242)	µg/kg	1000 U	20000 U	5300	210 U	3100
Aroclor-1248 (PCB-1248)	µg/kg	1000 U	150000	2000 U	210 U	1000 U
Aroclor-1254 (PCB-1254)	µg/kg	2300	20000 U	14000	210 U	5700
Aroclor-1260 (PCB-1260)	µg/kg	1000 U	21000	2000 U	210 U	1000 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**6034**	**6035**	**6036**	**6037**	**6038**
Sample Name:		**C-7878-072516-SSH-6034**	**C-7878-072516-SSH-6035**	**C-7878-072516-SSH-6036**	**C-7878-072516-SSH-6037**	**C-7878-072516-SSH-6038**
Sample Date:		**07/25/2016**	**07/25/2016**	**07/25/2016**	**07/25/2016**	**07/25/2016**
Depth:		**0-0.5 in bgs**	**0-0.5 in bgs**	**0-0.5 in bgs**	**0-0.5 in bgs**	**0-0.5 in bgs**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	--	--	--	--	--
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	100000 U	210 U	9900 U	4100 U	21000 U
Aroclor-1221 (PCB-1221)	µg/kg	100000 U	210 U	9900 U	4100 U	21000 U
Aroclor-1232 (PCB-1232)	µg/kg	100000 U	210 U	9900 U	4100 U	21000 U
Aroclor-1242 (PCB-1242)	µg/kg	100000 U	210 U	9900 U	14000	21000 U
Aroclor-1248 (PCB-1248)	µg/kg	430000	110 J	47000	4100 U	110000
Aroclor-1254 (PCB-1254)	µg/kg	100000 U	210 U	9900 U	22000	21000 U
Aroclor-1260 (PCB-1260)	µg/kg	100000 U	210 U	9200 J	4100 U	6400 J
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**6039**	**6040**	**6041**	**6043**	**6044**
Sample Name:		**C-7878-072516-SSH-6039**	**C-7878-072516-SSH-6040**	**C-7878-072516-SSH-6041**	**C-7878-072516-SSH-6043**	**C-7878-072516-SSH-6044**
Sample Date:		**07/25/2016**	**07/25/2016**	**07/25/2016**	**07/25/2016**	**07/25/2016**
Depth:		**0-0.5 in bgs**	**0-0.5 in bgs**	**0-0.5 in bgs**	**0-0.5 in bgs**	**0-0.5 in bgs**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	--	--	--	--	--
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	210 U	2000 U	1000 U	2000 U	1900 U
Aroclor-1221 (PCB-1221)	µg/kg	210 U	2000 U	1000 U	2000 U	1900 U
Aroclor-1232 (PCB-1232)	µg/kg	210 U	2000 U	1000 U	2000 U	1900 U
Aroclor-1242 (PCB-1242)	µg/kg	210 U	2000 U	1000 U	2000 U	1900 U
Aroclor-1248 (PCB-1248)	µg/kg	210 U	2000 U	1000 U	2000 U	1900 U
Aroclor-1254 (PCB-1254)	µg/kg	210 U	11000	2200	7200	11000
Aroclor-1260 (PCB-1260)	µg/kg	210 U	2000 U	1000 U	2000 U	1900 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**6045**	**6046**	**6047**	**6048**	**6049**
Sample Name:		**C-7878-072516-SSH-6045**	**C-7878-072516-SSH-6046**	**C-7878-072516-SSH-6047**	**C-7878-072516-SSH-6048**	**C-7878-072516-SSH-6049**
Sample Date:		**07/25/2016**	**07/25/2016**	**07/25/2016**	**07/25/2016**	**07/25/2016**
Depth:		**0-0.5 in bgs**	**0-0.5 in bgs**	**0-0.5 in bgs**	**0-0.5 in bgs**	**0-0.5 in bgs**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	--	--	--	--	--
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	970 U	990 U	990 U	2000 U	1000 U
Aroclor-1221 (PCB-1221)	µg/kg	970 U	990 U	990 U	2000 U	1000 U
Aroclor-1232 (PCB-1232)	µg/kg	970 U	990 U	990 U	2000 U	1000 U
Aroclor-1242 (PCB-1242)	µg/kg	970 U	990 U	990 U	2000 U	1000 U
Aroclor-1248 (PCB-1248)	µg/kg	970 U	990 U	990 U	2000 U	1000 U
Aroclor-1254 (PCB-1254)	µg/kg	3400	5000	7500	8300	6000
Aroclor-1260 (PCB-1260)	µg/kg	970 U	990 U	990 U	2000 U	1000 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**6050**	**6051**	**6052**	**6053**	**6055**
Sample Name:		**C-7878-072516-SSH-6050**	**C-7878-072516-SSH-6051**	**C-7878-072516-SSH-6052**	**C-7878-072516-SSH-6053**	**C-7878-072516-SSH-6055**
Sample Date:		**07/25/2016**	**07/25/2016**	**07/25/2016**	**07/25/2016**	**07/25/2016**
Depth:		**0-0.5 in bgs**	**0-0.5 in bgs**	**0-0.5 in bgs**	**0-0.5 in bgs**	**0-0.5 in bgs**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	--	--	--	--	--
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	210 U	200 U	200 U	2100 U	1000 U
Aroclor-1221 (PCB-1221)	µg/kg	210 U	200 U	200 U	2100 U	1000 U
Aroclor-1232 (PCB-1232)	µg/kg	210 U	200 U	200 U	2100 U	1000 U
Aroclor-1242 (PCB-1242)	µg/kg	210 U	300	230	6400	650 J
Aroclor-1248 (PCB-1248)	µg/kg	210 U	200 U	200 U	2100 U	1000 U
Aroclor-1254 (PCB-1254)	µg/kg	120 J	660	860	19000	4000
Aroclor-1260 (PCB-1260)	µg/kg	210 U	200 U	200 U	2100 U	1000 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**6056**	**6057**	**6058**	**6060**	**6061**
Sample Name:		**C-7878-072516-SSH-6056**	**C-7878-080416-SSH-6057**	**C-7878-080416-SSH-6058**	**C-7878-080416-SSH-6060**	**C-7878-080416-SSH-6061**
Sample Date:		**07/25/2016**	**08/04/2016**	**08/04/2016**	**08/04/2016**	**08/04/2016**
Depth:		**0-0.5 in bgs**	**0-0.5 in bgs**	**0-0.5 in bgs**	**0-0.5 in bgs**	**0-0.5 in bgs**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	--	--	--	--	--
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	4200 U	2000 U	2000 U	2000 U	4000 U
Aroclor-1221 (PCB-1221)	µg/kg	4200 U	2000 U	2000 U	2000 U	4000 U
Aroclor-1232 (PCB-1232)	µg/kg	4200 U	2000 U	2000 U	2000 U	4000 U
Aroclor-1242 (PCB-1242)	µg/kg	6700	2000 U	2000 U	2000 U	4000 U
Aroclor-1248 (PCB-1248)	µg/kg	4200 U	2000 U	2000 U	2000 U	4000 U
Aroclor-1254 (PCB-1254)	µg/kg	33000	8400	5800	11000	25000
Aroclor-1260 (PCB-1260)	µg/kg	4200 U	2000 U	2000 U	2000 U	4000 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**6063**	**6064**	**6065**	**6066**	**6067**
Sample Name:		**C-7878-080416-SSH-6063**	**C-7878-080416-SSH-6064**	**C-7878-080416-SSH-6065**	**C-7878-080416-SSH-6066**	**C-7878-080416-SSH-6067**
Sample Date:		**08/04/2016**	**08/04/2016**	**08/04/2016**	**08/04/2016**	**08/04/2016**
Depth:		**0-0.5 in bgs**	**0-0.5 in bgs**	**0-0.5 in bgs**	**0-0.5 in bgs**	**0-0.5 in bgs**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	--	--	--	--	--
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	1000 U	2000 U	1000 U	1000 U	980 U
Aroclor-1221 (PCB-1221)	µg/kg	1000 U	2000 U	1000 U	1000 U	980 U
Aroclor-1232 (PCB-1232)	µg/kg	1000 U	2000 U	1000 U	1000 U	980 U
Aroclor-1242 (PCB-1242)	µg/kg	1000 U	2000 U	1000 U	1000 U	980 U
Aroclor-1248 (PCB-1248)	µg/kg	1000 U	2000 U	1000 U	1000 U	980 U
Aroclor-1254 (PCB-1254)	µg/kg	2700	7800	2700	1900	4500
Aroclor-1260 (PCB-1260)	µg/kg	1000 U	2000 U	1000 U	1000 U	980 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**6068**	**6072**	**6073**	**6074**	**6075**
Sample Name:		**C-7878-080416-SSH-6068**	**C-7878-080416-SSH-6072**	**C-7878-080416-SSH-6073**	**C-7878-080416-SSH-6074**	**C-7878-080416-SSH-6075**
Sample Date:		**08/04/2016**	**08/04/2016**	**08/04/2016**	**08/04/2016**	**08/04/2016**
Depth:		**0-0.5 in bgs**	**0-0.5 in bgs**	**0-0.5 in bgs**	**0-0.5 in bgs**	**0-0.5 in bgs**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	--	--	--	--	--
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	2000 U	2000 U	400 U	1000 U	1000 U
Aroclor-1221 (PCB-1221)	µg/kg	2000 U	2000 U	400 U	1000 U	1000 U
Aroclor-1232 (PCB-1232)	µg/kg	2000 U	2000 U	400 U	1000 U	1000 U
Aroclor-1242 (PCB-1242)	µg/kg	2000 U	2000 U	400 U	1000 U	1000 U
Aroclor-1248 (PCB-1248)	µg/kg	2000 U	2000 U	400 U	1000 U	1000 U
Aroclor-1254 (PCB-1254)	µg/kg	7800	5100	390 J	2600	1700
Aroclor-1260 (PCB-1260)	µg/kg	2000 U	2000 U	400 U	1000 U	1000 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**6076**	**6077**	**6078**	**6079**	**6080**
Sample Name:		**C-7878-080416-SSH-6076**	**C-7878-080416-SSH-6077**	**C-7878-080416-SSH-6078**	**C-7878-080416-SSH-6079**	**C-7878-080416-SSH-6080**
Sample Date:		**08/04/2016**	**08/04/2016**	**08/04/2016**	**08/04/2016**	**08/04/2016**
Depth:		**0-0.5 in bgs**	**0-0.5 in bgs**	**0-0.5 in bgs**	**0-0.5 in bgs**	**0-0.5 in bgs**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	--	--	--	--	--
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	1000 U	2000 U	2000 U	1200 U	1100 U
Aroclor-1221 (PCB-1221)	µg/kg	1000 U	2000 U	2000 U	1200 U	1100 U
Aroclor-1232 (PCB-1232)	µg/kg	1000 U	2000 U	2000 U	1200 U	1100 U
Aroclor-1242 (PCB-1242)	µg/kg	1000 U	2000 U	2000 U	1200 U	1100 U
Aroclor-1248 (PCB-1248)	µg/kg	1000 U	2000 U	2000 U	1200 U	1100 U
Aroclor-1254 (PCB-1254)	µg/kg	440 J	4300	9200	1400	3800
Aroclor-1260 (PCB-1260)	µg/kg	1000 U	2000 U	2000 U	1200 U	1100 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**6081**	**6082**	**6084**	**6089**	**6090**
Sample Name:		**C-7878-080416-SSH-6081**	**C-7878-080416-SSH-6082**	**C-7878-080416-SSH-6084**	**C-7878-081916-SSH-6089**	**C-7878-091416-SSH-6090B**
Sample Date:		**08/04/2016**	**08/04/2016**	**08/04/2016**	**08/19/2016**	**09/14/2016**
Depth:		**0-0.5 in bgs**	**0-0.5 in bgs**	**0-0.5 in bgs**	**0-0.5 in bgs**	**2.5-5 in bgs**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	--	--	--	--	--
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	210 U	210 U	220 U	510 U	1000000 U
Aroclor-1221 (PCB-1221)	µg/kg	210 U	210 U	220 U	510 U	1000000 U
Aroclor-1232 (PCB-1232)	µg/kg	210 U	210 U	220 U	510 U	1000000 U
Aroclor-1242 (PCB-1242)	µg/kg	210 U	210 U	220 U	510 U	1000000 U
Aroclor-1248 (PCB-1248)	µg/kg	210 U	210 U	220 U	510 U	1000000 U
Aroclor-1254 (PCB-1254)	µg/kg	210 U	210 U	220 U	5600	6400000
Aroclor-1260 (PCB-1260)	µg/kg	210 U	210 U	220 U	510 U	1000000 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**6091**	**6093**	**6094**	**6098**	**6099**
Sample Name:		**C-7878-081916-SSH-6091**	**C-7878-091416-SSH-6093B**	**C-7878-081916-SSH-6094**	**C-7878-081916-SSH-6098**	**C-7878-081916-SSH-6099**
Sample Date:		**08/19/2016**	**09/14/2016**	**08/19/2016**	**08/19/2016**	**08/19/2016**
Depth:		**0-0.5 in bgs**	**2.5-5 in bgs**	**0-0.5 in bgs**	**0-0.5 in bgs**	**0-0.5 in bgs**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	--	--	--	--	--
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	20000 U	5100 U	520 U	5100 U	520 U
Aroclor-1221 (PCB-1221)	µg/kg	20000 U	5100 U	520 U	5100 U	520 U
Aroclor-1232 (PCB-1232)	µg/kg	20000 U	5100 U	520 U	5100 U	520 U
Aroclor-1242 (PCB-1242)	µg/kg	20000 U	5100 U	520 U	5100 U	520 U
Aroclor-1248 (PCB-1248)	µg/kg	20000 U	5100 U	520 U	5100 U	520 U
Aroclor-1254 (PCB-1254)	µg/kg	330000	27000	4200	27000	1900
Aroclor-1260 (PCB-1260)	µg/kg	20000 U	5100 U	520 U	5100 U	520 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**6103**	**6104**	**6105**	**6107**	**6109**
Sample Name:		**C-7878-081916-SSH-6103**	**C-7878-081916-SSH-6104**	**C-7878-081916-SSH-6105**	**C-7878-081916-SSH-6107**	**C-7878-090616-SSH-6109**
Sample Date:		**08/19/2016**	**08/19/2016**	**08/19/2016**	**08/19/2016**	**09/06/2016**
Depth:		**0-0.5 in bgs**	**0-0.5 in bgs**	**0-0.5 in bgs**	**0-0.5 in bgs**	**0-2.5 in bgs**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	--	--	--	--	--
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	100 U	510 U	510 U	1000 U	100 U
Aroclor-1221 (PCB-1221)	µg/kg	100 U	510 U	510 U	1000 U	100 U
Aroclor-1232 (PCB-1232)	µg/kg	100 U	510 U	510 U	1000 U	100 U
Aroclor-1242 (PCB-1242)	µg/kg	100 U	510 U	510 U	1000 U	100 U
Aroclor-1248 (PCB-1248)	µg/kg	100 U	510 U	510 U	1000 U	100 U
Aroclor-1254 (PCB-1254)	µg/kg	2100	2900	5900	8200	1700
Aroclor-1260 (PCB-1260)	µg/kg	100 U	510 U	510 U	1000 U	100 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		6113	6116	6120	6123	6126
Sample Name:		C-7878-090616-SSH-6113	C-7878-090616-SSH-6116	C-7878-090616-SSH-6120	C-7878-090616-SSH-6123	C-7878-090616-SSH-6126
Sample Date:		09/06/2016	09/06/2016	09/06/2016	09/06/2016	09/06/2016
Depth:		0-2.5 in bgs	0-2.5 in bgs	0-2.5 in bgs	0-2.5 in bgs	0-2.5 in bgs
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	--	--	--	--	--
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	1000 U	99000 U	1000000 U	5200 U	2000 U
Aroclor-1221 (PCB-1221)	µg/kg	1000 U	99000 U	1000000 U	5200 U	2000 U
Aroclor-1232 (PCB-1232)	µg/kg	1000 U	99000 U	1000000 U	5200 U	2000 U
Aroclor-1242 (PCB-1242)	µg/kg	1000 U	99000 U	1000000 U	5200 U	2000 U
Aroclor-1248 (PCB-1248)	µg/kg	1000 U	99000 U	1000000 U	5200 U	2000 U
Aroclor-1254 (PCB-1254)	µg/kg	7600	590000	8100000	73000	18000
Aroclor-1260 (PCB-1260)	µg/kg	1000 U	99000 U	1000000 U	5200 U	2000 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		6127	6128	6130	6131	6132
Sample Name:		C-7878-090616-SSH-6127	C-7878-090616-SSH-6128	C-7878-092116-SSH-6134	C-7878-092116-SSH-6131	C-7878-092116-SSH-6132
Sample Date:		09/06/2016	09/06/2016	09/21/2016	09/21/2016	09/21/2016
Depth:		0-2.5 in bgs	0-2.5 in bgs	0-2.5 in bgs	0-2.5 in bgs	0-2.5 in bgs
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	--	--	--	--	--
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	510 U	50000 U	2300 U	5300 U	10000 U
Aroclor-1221 (PCB-1221)	µg/kg	510 U	50000 U	2300 U	5300 U	10000 U
Aroclor-1232 (PCB-1232)	µg/kg	510 U	50000 U	2300 U	5300 U	10000 U
Aroclor-1242 (PCB-1242)	µg/kg	510 U	50000 U	2300 U	5300 U	10000 U
Aroclor-1248 (PCB-1248)	µg/kg	510 U	50000 U	2300 U	5300 U	10000 U
Aroclor-1254 (PCB-1254)	µg/kg	4400	330000	17000	35000	80000
Aroclor-1260 (PCB-1260)	µg/kg	510 U	50000 U	2300 U	5300 U	10000 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**6133**	**6134**	**6135**	**6136**	**6137**
Sample Name:		**C-7878-092116-SSH-6133**	**C-7878-092716-SSH-6134**	**C-7878-092716-SSH-6135**	**C-7878-092116-SSH-6136**	**C-7878-092116-SSH-6137**
Sample Date:		**09/21/2016**	**09/27/2016**	**09/27/2016**	**09/21/2016**	**09/21/2016**
Depth:		**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	--	--	--	--	--
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	22000 U	100 U	510 U	10000 U	21000 U
Aroclor-1221 (PCB-1221)	µg/kg	22000 U	100 U	510 U	10000 U	21000 U
Aroclor-1232 (PCB-1232)	µg/kg	22000 U	100 U	510 U	10000 U	21000 U
Aroclor-1242 (PCB-1242)	µg/kg	22000 U	100 U	510 U	10000 U	21000 U
Aroclor-1248 (PCB-1248)	µg/kg	22000 U	100 U	510 U	10000 U	21000 U
Aroclor-1254 (PCB-1254)	µg/kg	140000	120	3400	110000	170000
Aroclor-1260 (PCB-1260)	µg/kg	22000 U	100 U	510 U	10000 U	21000 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**6139**	**6140**	**6141**	**6142**	**6143**
Sample Name:		**C-7878-092116-SSH-6139**	**C-7878-092116-SSH-6140**	**C-7878-092116-SSH-6141**	**C-7878-092116-SSH-6142**	**C-7878-092116-SSH-6143**
Sample Date:		**09/21/2016**	**09/21/2016**	**09/21/2016**	**09/21/2016**	**09/21/2016**
Depth:		**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	--	--	--	--	--
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	11000 U	51000 U	51000 U	99000 U	11000 U
Aroclor-1221 (PCB-1221)	µg/kg	11000 U	51000 U	51000 U	99000 U	11000 U
Aroclor-1232 (PCB-1232)	µg/kg	11000 U	51000 U	51000 U	99000 U	11000 U
Aroclor-1242 (PCB-1242)	µg/kg	11000 U	51000 U	51000 U	99000 U	11000 U
Aroclor-1248 (PCB-1248)	µg/kg	11000 U	51000 U	51000 U	99000 U	11000 U
Aroclor-1254 (PCB-1254)	µg/kg	65000	450000	450000	800000	170000
Aroclor-1260 (PCB-1260)	µg/kg	11000 U	51000 U	51000 U	99000 U	11000 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**6261**	**6262**	**6263**	**6264**	**6265**
Sample Name:		**C-7878-100616-SSH-6261**	**C-7878-100616-SSH-6262**	**C-7878-100616-SSH-6263**	**C-7878-100616-SSH-6264**	**C-7878-100616-SSH-6265**
Sample Date:		**10/06/2016**	**10/06/2016**	**10/06/2016**	**10/06/2016**	**10/06/2016**
Depth:		**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	3.4	3.8	1.6	3.4	4.6
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	81 U	82 U	85 U	82 U	430 U
Aroclor-1221 (PCB-1221)	µg/kg	81 U	82 U	85 U	82 U	430 U
Aroclor-1232 (PCB-1232)	µg/kg	81 U	82 U	85 U	82 U	430 U
Aroclor-1242 (PCB-1242)	µg/kg	81 U	82 U	85 U	82 U	430 U
Aroclor-1248 (PCB-1248)	µg/kg	81 U	82 U	85 U	82 U	430 U
Aroclor-1254 (PCB-1254)	µg/kg	110000	23000000	28000	5900	30000
Aroclor-1260 (PCB-1260)	µg/kg	81 U	82 U	85 U	82 U	430 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**6266**	**6268**	**6269**	**6270**	**6271**
Sample Name:		**C-7878-100616-SSH-6266**	**C-7878-100616-SSH-6268**	**C-7878-100616-SSH-6269**	**C-7878-100616-SSH-6270**	**C-7878-100616-SSH-6271**
Sample Date:		**10/06/2016**	**10/06/2016**	**10/06/2016**	**10/06/2016**	**10/06/2016**
Depth:		**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	4.8	4.6	3.4	3.2	3.2
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	87 U	83 U	86 U	84 U	81 U
Aroclor-1221 (PCB-1221)	µg/kg	87 U	83 U	86 U	84 U	81 U
Aroclor-1232 (PCB-1232)	µg/kg	87 U	83 U	86 U	84 U	81 U
Aroclor-1242 (PCB-1242)	µg/kg	87 U	4200	86 U	84 U	81 U
Aroclor-1248 (PCB-1248)	µg/kg	87 U	83 U	86 U	84 U	81 U
Aroclor-1254 (PCB-1254)	µg/kg	750	2000	860	2600	20000
Aroclor-1260 (PCB-1260)	µg/kg	87 U	83 U	86 U	84 U	81 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**6272**	**6273**	**6274**	**6275**	**6276**
Sample Name:		**C-7878-100616-SSH-6272**	**C-7878-100616-SSH-6273**	**C-7878-100616-SSH-6274**	**C-7878-100616-SSH-6275**	**C-7878-100616-SSH-6276**
Sample Date:		**10/06/2016**	**10/06/2016**	**10/06/2016**	**10/06/2016**	**10/06/2016**
Depth:		**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	3.8	4.0	5.1	4.9	4.7
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	82 U	85 U	73 U	73 U	86 U
Aroclor-1221 (PCB-1221)	µg/kg	82 U	85 U	73 U	73 U	86 U
Aroclor-1232 (PCB-1232)	µg/kg	82 U	85 U	73 U	73 U	86 U
Aroclor-1242 (PCB-1242)	µg/kg	82 U	85 U	73 U	73 U	86 U
Aroclor-1248 (PCB-1248)	µg/kg	82 U	85 U	73 U	73 U	86 U
Aroclor-1254 (PCB-1254)	µg/kg	2200	33000	24000	7300	9100
Aroclor-1260 (PCB-1260)	µg/kg	82 U	85 U	73 U	73 U	86 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**6277**	**6278**	**6279**	**6280**	**6282**
Sample Name:		**C-7878-100616-SSH-6277**	**C-7878-100616-SSH-6278**	**C-7878-100616-SSH-6279**	**C-7878-100616-SSH-6280**	**C-7878-100716-SSH-6282**
Sample Date:		**10/06/2016**	**10/06/2016**	**10/06/2016**	**10/06/2016**	**10/07/2016**
Depth:		**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	3.0	3.9	2.9	4.2	3.2
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	86 U	86 U	81 U	82 U	85 U
Aroclor-1221 (PCB-1221)	µg/kg	86 U	86 U	81 U	82 U	85 U
Aroclor-1232 (PCB-1232)	µg/kg	86 U	86 U	81 U	82 U	85 U
Aroclor-1242 (PCB-1242)	µg/kg	86 U	86 U	81 U	82 U	85 U
Aroclor-1248 (PCB-1248)	µg/kg	86 U	86 U	81 U	82 U	85 U
Aroclor-1254 (PCB-1254)	µg/kg	370000	57000	380000	840	2900
Aroclor-1260 (PCB-1260)	µg/kg	86 U	86 U	81 U	82 U	85 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**6284**	**6285**	**6286**	**6287**	**6288**
Sample Name:		**C-7878-100716-SSH-6284**	**C-7878-100716-SSH-6285**	**C-7878-100716-SSH-6286**	**C-7878-100716-SSH-6287**	**C-7878-100716-SSH-6288**
Sample Date:		**10/07/2016**	**10/07/2016**	**10/07/2016**	**10/07/2016**	**10/07/2016**
Depth:		**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	2.4	1.6	2.3	3.9	4.0
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	81 U	84 U	83 U	82 U	83 U
Aroclor-1221 (PCB-1221)	µg/kg	81 U	84 U	83 U	82 U	83 U
Aroclor-1232 (PCB-1232)	µg/kg	81 U	84 U	83 U	82 U	83 U
Aroclor-1242 (PCB-1242)	µg/kg	81 U	84 U	83 U	82 U	83 U
Aroclor-1248 (PCB-1248)	µg/kg	81 U	84 U	83 U	82 U	83 U
Aroclor-1254 (PCB-1254)	µg/kg	1300	5700	5300	4500	1700
Aroclor-1260 (PCB-1260)	µg/kg	81 U	84 U	83 U	82 U	83 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**6289**	**6291**	**6292**	**6293**	**6294**
Sample Name:		**C-7878-100716-SSH-6289**	**C-7878-100716-SSH-6291**	**C-7878-100616-SSH-6292**	**C-7878-100616-SSH-6293**	**C-7878-100616-SSH-6294**
Sample Date:		**10/07/2016**	**10/07/2016**	**10/06/2016**	**10/06/2016**	**10/06/2016**
Depth:		**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	4.4	4.0	2.4	1.6	1.0
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	82 U	82 U	85 U	85 U	84 U
Aroclor-1221 (PCB-1221)	µg/kg	82 U	82 U	85 U	85 U	84 U
Aroclor-1232 (PCB-1232)	µg/kg	82 U	82 U	85 U	85 U	84 U
Aroclor-1242 (PCB-1242)	µg/kg	82 U	82 U	85 U	85 U	84 U
Aroclor-1248 (PCB-1248)	µg/kg	82 U	82 U	85 U	85 U	84 U
Aroclor-1254 (PCB-1254)	µg/kg	3500	9400	45000	30000	35000
Aroclor-1260 (PCB-1260)	µg/kg	82 U	82 U	85 U	85 U	84 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**6297**	**6298**	**6305**	**6306**	**6307**
Sample Name:		**C-7878-100716-SSH-6297**	**C-7878-100716-SSH-6298**	**C-7878-101316-SSH-6305**	**C-7878-101316-SSH-6306**	**C-7878-101316-SSH-6307**
Sample Date:		**10/07/2016**	**10/07/2016**	**10/13/2016**	**10/13/2016**	**10/13/2016**
Depth:		**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	4.9	3.3	6.4	9.3	3.7
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	84 U	85 U	88 U	89 U	83 U
Aroclor-1221 (PCB-1221)	µg/kg	84 U	85 U	88 U	89 U	83 U
Aroclor-1232 (PCB-1232)	µg/kg	84 U	85 U	88 U	89 U	83 U
Aroclor-1242 (PCB-1242)	µg/kg	84 U	85 U	88 U	89 U	83 U
Aroclor-1248 (PCB-1248)	µg/kg	84 U	85 U	88 U	89 U	83 U
Aroclor-1254 (PCB-1254)	µg/kg	19000	17000	240	73 J	110
Aroclor-1260 (PCB-1260)	µg/kg	84 U	85 U	88 U	89 U	83 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**6321**	**6323**	**6324**	**6325**	**6327**
Sample Name:		**C-7878-101816-SSH-6321**	**C-7878-101816-SSH-6323**	**C-7878-101816-SSH-6324**	**C-7878-101816-SSH-6325**	**C-7878-101816-SSH-6327**
Sample Date:		**10/18/2016**	**10/18/2016**	**10/18/2016**	**10/18/2016**	**10/18/2016**
Depth:		**0-2.5 in BGS**	**0-2.5 in BGS**	**0-2.5 in BGS**	**0-2.5 in BGS**	**0-2.5 in BGS**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	3.6	3.0	3.5	3.1	4.5
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	85 U	82 U	83 U	86 U	87 U
Aroclor-1221 (PCB-1221)	µg/kg	85 U	82 U	83 U	86 U	87 U
Aroclor-1232 (PCB-1232)	µg/kg	85 U	82 U	83 U	86 U	87 U
Aroclor-1242 (PCB-1242)	µg/kg	85 U	82 U	83 U	86 U	87 U
Aroclor-1248 (PCB-1248)	µg/kg	85 U	82 U	83 U	86 U	87 U
Aroclor-1254 (PCB-1254)	µg/kg	11000	1900	10000	20000	2600
Aroclor-1260 (PCB-1260)	µg/kg	85 U	82 U	83 U	86 U	87 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**6328**	**6329**	**6331**	**6332**	**6333**
Sample Name:		**C-7878-101816-SSH-6328**	**C-7878-101816-SSH-6329**	**C-7878-101816-SSH-6331**	**C-7878-101816-SSH-6332**	**C-7878-101816-SSH-6333**
Sample Date:		**10/18/2016**	**10/18/2016**	**10/18/2016**	**10/18/2016**	**10/18/2016**
Depth:		**0-2.5 in BGS**	**0-2.5 in BGS**	**0-2.5 in BGS**	**0-2.5 in BGS**	**0-2.5 in BGS**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	3.5	3.0	3.1	4.1	2.9
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	82 U	84 U	86 U	86 U	85 U
Aroclor-1221 (PCB-1221)	µg/kg	82 U	84 U	86 U	86 U	85 U
Aroclor-1232 (PCB-1232)	µg/kg	82 U	84 U	86 U	86 U	85 U
Aroclor-1242 (PCB-1242)	µg/kg	82 U	84 U	86 U	86 U	85 U
Aroclor-1248 (PCB-1248)	µg/kg	82 U	84 U	86 U	86 U	85 U
Aroclor-1254 (PCB-1254)	µg/kg	4100	3600	33000	5500	110000
Aroclor-1260 (PCB-1260)	µg/kg	82 U	84 U	86 U	86 U	85 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**6334**	**6336**	**6337**	**6338**	**6339**
Sample Name:		**C-7878-101816-SSH-6334**	**C-7878-101816-SSH-6336**	**C-7878-101816-SSH-6337**	**C-7878-101816-SSH-6338**	**C-7878-101816-SSH-6339**
Sample Date:		**10/18/2016**	**10/18/2016**	**10/18/2016**	**10/18/2016**	**10/18/2016**
Depth:		**0-2.5 in BGS**	**0-2.5 in BGS**	**0-2.5 in BGS**	**0-2.5 in BGS**	**0-2.5 in BGS**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	1.9	4.2	4.3	1.7	2.2
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	81 U	83 U	86 U	82 U	83 U
Aroclor-1221 (PCB-1221)	µg/kg	81 U	83 U	86 U	82 U	83 U
Aroclor-1232 (PCB-1232)	µg/kg	81 U	83 U	86 U	82 U	83 U
Aroclor-1242 (PCB-1242)	µg/kg	81 U	83 U	86 U	82 U	83 U
Aroclor-1248 (PCB-1248)	µg/kg	81 U	83 U	86 U	82 U	83 U
Aroclor-1254 (PCB-1254)	µg/kg	64000	48000	4700	5800	59000
Aroclor-1260 (PCB-1260)	µg/kg	81 U	83 U	86 U	82 U	83 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**6340**	**6341**	**6342**	**6343**	**6360**
Sample Name:		**C-7878-101816-SSH-6340**	**C-7878-101816-SSH-6341**	**C-7878-101816-SSH-6342**	**C-7878-101816-SSH-6343**	**C-7878-102816-SSH-6360**
Sample Date:		**10/18/2016**	**10/18/2016**	**10/18/2016**	**10/18/2016**	**10/28/2016**
Depth:		**0-2.5 in BGS**	**0-2.5 in BGS**	**0-2.5 in BGS**	**0-2.5 in BGS**	**0-2.5 in BGS**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	3.4	3.0	3.3	2.7	6.5
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	84 U	85 U	85 U	82 U	93 U
Aroclor-1221 (PCB-1221)	µg/kg	84 U	85 U	85 U	82 U	93 U
Aroclor-1232 (PCB-1232)	µg/kg	84 U	85 U	85 U	82 U	93 U
Aroclor-1242 (PCB-1242)	µg/kg	84 U	85 U	85 U	82 U	93 U
Aroclor-1248 (PCB-1248)	µg/kg	84 U	85 U	85 U	82 U	93 U
Aroclor-1254 (PCB-1254)	µg/kg	57000	29000	10000	26000	28 J
Aroclor-1260 (PCB-1260)	µg/kg	84 U	85 U	85 U	82 U	93 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**6361**	**6367**	**6372**	**6373**	**A1B**
Sample Name:		**C-7878-102816-SSH-6361**	**C-7878-102816-SSH-6367**	**C-7878-110416-SSH-6372**	**C-7878-110416-SSH-6373**	**C-7878-081916-SSH-A1B**
Sample Date:		**10/28/2016**	**10/28/2016**	**11/04/2016**	**11/04/2016**	**08/19/2016**
Depth:		**0-2.5 in BGS**	**0-2.5 in BGS**	**0-2.5 in bgs**	**0-2.5 in bgs**	**0-0.5 in bgs**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	3.2	3.8	4.0	4.4	--
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	86 U	97 U	84 U	87 U	510 U
Aroclor-1221 (PCB-1221)	µg/kg	86 U	97 U	84 U	87 U	510 U
Aroclor-1232 (PCB-1232)	µg/kg	86 U	97 U	84 U	87 U	510 U
Aroclor-1242 (PCB-1242)	µg/kg	86 U	97 U	84 U	87 U	510 U
Aroclor-1248 (PCB-1248)	µg/kg	86 U	97 U	84 U	87 U	510 U
Aroclor-1254 (PCB-1254)	µg/kg	11000	5800	3800	350	3900
Aroclor-1260 (PCB-1260)	µg/kg	86 U	97 U	84 U	87 U	510 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**A1E**	**K3**	**K4**	**K4-1**	**K4-2**
Sample Name:		**C-7878-081916-SSH-A1E**	**C-7878-091416-SSH-K3**	**C-7878-091416-SSH-K4**	**C-7878-092716-SSH-K4-1**	**C-7878-092716-SSH-K4-2**
Sample Date:		**08/19/2016**	**09/14/2016**	**09/14/2016**	**09/27/2016**	**09/27/2016**
Depth:		**0-0.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	--	--	--	--	--
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	100 U	990 U	4900 U	10000 U	5100 U
Aroclor-1221 (PCB-1221)	µg/kg	100 U	990 U	4900 U	10000 U	5100 U
Aroclor-1232 (PCB-1232)	µg/kg	100 U	990 U	4900 U	10000 U	5100 U
Aroclor-1242 (PCB-1242)	µg/kg	100 U	990 U	4900 U	10000 U	5100 U
Aroclor-1248 (PCB-1248)	µg/kg	100 U	990 U	4900 U	10000 U	5100 U
Aroclor-1254 (PCB-1254)	µg/kg	860	5100	31000	62000	31000
Aroclor-1260 (PCB-1260)	µg/kg	100 U	990 U	4900 U	10000 U	5100 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**K4-3**	**K4-4**	**K4-6**	**K4-7**	**K4-8**
Sample Name:		**C-7878-092716-SSH-K4-3**	**C-7878-092716-SSH-K4-4**	**C-7878-092716-SSH-K4-6**	**C-7878-092716-SSH-K4-7**	**C-7878-092716-SSH-K4-8**
Sample Date:		**09/27/2016**	**09/27/2016**	**09/27/2016**	**09/27/2016**	**09/27/2016**
Depth:		**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	--	--	--	--	--
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	5200 U	1000 U	53000 U	10000 U	100000 U
Aroclor-1221 (PCB-1221)	µg/kg	5200 U	1000 U	53000 U	10000 U	100000 U
Aroclor-1232 (PCB-1232)	µg/kg	5200 U	1000 U	53000 U	10000 U	100000 U
Aroclor-1242 (PCB-1242)	µg/kg	5200 U	1000 U	53000 U	10000 U	100000 U
Aroclor-1248 (PCB-1248)	µg/kg	5200 U	1000 U	53000 U	10000 U	100000 U
Aroclor-1254 (PCB-1254)	µg/kg	44000	10000	280000	66000	1700000
Aroclor-1260 (PCB-1260)	µg/kg	5200 U	1000 U	53000 U	10000 U	100000 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**K5**	**K5-1**	**K5-2**	**K5-3**	**K5-4**
Sample Name:		**C-7878-091416-SSH-K5**	**C-7878-092716-SSH-K5-1**	**C-7878-092716-SSH-K5-2**	**C-7878-092716-SSH-K5-3**	**C-7878-092716-SSH-K5-4**
Sample Date:		**09/14/2016**	**09/27/2016**	**09/27/2016**	**09/27/2016**	**09/27/2016**
Depth:		**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	--	--	--	--	--
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	5000 U	10000 U	10000 U	5100 U	1000 U
Aroclor-1221 (PCB-1221)	µg/kg	5000 U	10000 U	10000 U	5100 U	1000 U
Aroclor-1232 (PCB-1232)	µg/kg	5000 U	10000 U	10000 U	5100 U	1000 U
Aroclor-1242 (PCB-1242)	µg/kg	5000 U	10000 U	10000 U	5100 U	1000 U
Aroclor-1248 (PCB-1248)	µg/kg	5000 U	10000 U	10000 U	5100 U	1000 U
Aroclor-1254 (PCB-1254)	µg/kg	33000	260000	49000	32000	8900
Aroclor-1260 (PCB-1260)	µg/kg	5000 U	10000 U	10000 U	5100 U	1000 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**K5-5**	**K5-6**	**K5-7**	**K5-8**	**K6**
Sample Name:		**C-7878-092716-SSH-K5-5**	**C-7878-092716-SSH-K5-6**	**C-7878-092716-SSH-K5-7**	**C-7878-092716-SSH-K5-8**	**C-7878-091416-SSH-K6B**
Sample Date:		**09/27/2016**	**09/27/2016**	**09/27/2016**	**09/27/2016**	**09/14/2016**
Depth:		**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**	**2.5-5 in bgs**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	--	--	--	--	--
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	520 UJ	520000 U	10000 U	520 U	100 U
Aroclor-1221 (PCB-1221)	µg/kg	520 UJ	520000 U	10000 U	520 U	100 U
Aroclor-1232 (PCB-1232)	µg/kg	520 UJ	520000 U	10000 U	520 U	100 U
Aroclor-1242 (PCB-1242)	µg/kg	520 UJ	520000 U	10000 U	520 U	100 U
Aroclor-1248 (PCB-1248)	µg/kg	520 UJ	520000 U	10000 U	520 U	100 U
Aroclor-1254 (PCB-1254)	µg/kg	3100 J	2700000	150000	2200	880
Aroclor-1260 (PCB-1260)	µg/kg	520 UJ	520000 U	10000 U	520 U	100 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**K7**	**K8**	**K10**	**K11**	**K12**
Sample Name:		**C-7878-091416-SSH-K7B**	**C-7878-091416-SSH-K8B**	**C-7878-091416-SSH-K10B**	**C-7878-091416-SSH-K11B**	**C-7878-091416-SSH-K12B**
Sample Date:		**09/14/2016**	**09/14/2016**	**09/14/2016**	**09/14/2016**	**09/14/2016**
Depth:		**2.5-5 in bgs**	**2.5-5 in bgs**	**2.5-5 in bgs**	**2.5-5 in bgs**	**2.5-5 in bgs**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	--	--	--	--	--
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	100 U	110 U	100 U	520 U	100 U
Aroclor-1221 (PCB-1221)	µg/kg	100 U	110 U	100 U	520 U	100 U
Aroclor-1232 (PCB-1232)	µg/kg	100 U	110 U	100 U	520 U	100 U
Aroclor-1242 (PCB-1242)	µg/kg	100 U	110 U	100 U	520 U	100 U
Aroclor-1248 (PCB-1248)	µg/kg	100 U	110 U	100 U	520 U	100 U
Aroclor-1254 (PCB-1254)	µg/kg	910	1200	330	2100	820
Aroclor-1260 (PCB-1260)	µg/kg	100 U	110 U	100 U	520 U	100 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		K13	K14	K15	K16	K16-1
Sample Name:		C-7878-091416-SSH-K13B	C-7878-091416-SSH-K14B	C-7878-091416-SSH-K15B	C-7878-091416-SSH-K16	C-7878-092716-SSH-K16-1
Sample Date:		09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/27/2016
Depth:		2.5-5 in bgs	2.5-5 in bgs	2.5-5 in bgs	0-2.5 in bgs	0-2.5 in bgs
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	--	--	--	--	--
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	100 U	100 U	110 U	2000 U	9900 U
Aroclor-1221 (PCB-1221)	µg/kg	100 U	100 U	110 U	2000 U	9900 U
Aroclor-1232 (PCB-1232)	µg/kg	100 U	100 U	110 U	2000 U	9900 U
Aroclor-1242 (PCB-1242)	µg/kg	100 U	100 U	110 U	2000 U	9900 U
Aroclor-1248 (PCB-1248)	µg/kg	100 U	100 U	110 U	2000 U	9900 U
Aroclor-1254 (PCB-1254)	µg/kg	360	530	100 J	24000	260000
Aroclor-1260 (PCB-1260)	µg/kg	100 U	100 U	110 U	2000 U	9900 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		K16-2	K16-3	K16-4	K16-5	K16-6
Sample Name:		C-7878-092716-SSH-K16-2	C-7878-092716-SSH-K16-3	C-7878-092716-SSH-K16-4	C-7878-092716-SSH-K16-5	C-7878-092716-SSH-K16-6
Sample Date:		09/27/2016	09/27/2016	09/27/2016	09/27/2016	09/27/2016
Depth:		0-2.5 in bgs	0-2.5 in bgs	0-2.5 in bgs	0-2.5 in bgs	0-2.5 in bgs
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	--	--	--	--	--
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	1000 U	1000 U	5100 U	510 U	1000 U
Aroclor-1221 (PCB-1221)	µg/kg	1000 U	1000 U	5100 U	510 U	1000 U
Aroclor-1232 (PCB-1232)	µg/kg	1000 U	1000 U	5100 U	510 U	1000 U
Aroclor-1242 (PCB-1242)	µg/kg	1000 U	1000 U	5100 U	510 U	1000 U
Aroclor-1248 (PCB-1248)	µg/kg	1000 U	1000 U	5100 U	510 U	1000 U
Aroclor-1254 (PCB-1254)	µg/kg	8800	17000	34000	1900	14000
Aroclor-1260 (PCB-1260)	µg/kg	1000 U	1000 U	5100 U	510 U	1000 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**K16-7**	**K16-8**	**K17**	**K18**	**6144**
Sample Name:		**C-7878-092716-SSH-K16-7**	**C-7878-092716-SSH-K16-8**	**C-7878-091416-SSH-K17**	**C-7878-091416-SSH-K18**	**C-7878-092116-SSH-6144**
Sample Date:		**09/27/2016**	**09/27/2016**	**09/14/2016**	**09/14/2016**	**09/21/2016**
Depth:		**0-2.5 in BGS**	**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**	**0-2.5 in bgs**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	--	--	--	--	--
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	520 UJ	1100 U	500 U	1000 U	10000 U
Aroclor-1221 (PCB-1221)	µg/kg	520 UJ	1100 U	500 U	1000 U	10000 U
Aroclor-1232 (PCB-1232)	µg/kg	520 UJ	1100 U	500 U	1000 U	10000 U
Aroclor-1242 (PCB-1242)	µg/kg	520 UJ	1100 U	500 U	1000 U	10000 U
Aroclor-1248 (PCB-1248)	µg/kg	520 UJ	1100 U	500 U	1000 U	10000 U
Aroclor-1254 (PCB-1254)	µg/kg	3000 J	5900	3800	10000	49000
Aroclor-1260 (PCB-1260)	µg/kg	520 UJ	1100 U	500 U	1000 U	10000 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**6303**	**I27-A**	**I27-B**	**I27-C**	**I27-D**
Sample Name:		**C-7878-100616-SSH-6303**	**S-7878-101816-SSH-I27-A**	**S-7878-101816-SSH-I27-B**	**S-7878-101816-SSH-I27-C**	**S-7878-101816-SSH-I27-D**
Sample Date:		**10/06/2016**	**10/18/2016**	**10/18/2016**	**10/18/2016**	**10/18/2016**
Depth:		**0-2.5 in bgs**	**3-4 ft BTCFS**	**1.5-2.5 ft BTCFS**	**0.5-1.5 ft BTCFS**	**1.5-2.5 ft BTCFS**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	2.7	23	21	25	18
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	83 U	100 U	100 U	160 U	99 U
Aroclor-1221 (PCB-1221)	µg/kg	83 U	100 U	100 U	160 U	99 U
Aroclor-1232 (PCB-1232)	µg/kg	83 U	100 U	100 U	160 U	99 U
Aroclor-1242 (PCB-1242)	µg/kg	83 U	100 U	100 U	160 U	99 U
Aroclor-1248 (PCB-1248)	µg/kg	83 U	100 U	100 U	160 U	99 U
Aroclor-1254 (PCB-1254)	µg/kg	29000	14000	400000	50000	40000
Aroclor-1260 (PCB-1260)	µg/kg	83 U	100 U	100 U	160 U	99 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**I27-E**	**15101**	**TOTE 14**	**010**	**011**
Sample Name:		**S-7878-101816-SSH-I27-E**	**SL-7878-080415-SSH-15101**	**O-7878-111114-SSH-TOTE 14**	**W-7878-082510-SSH-010**	**W-7878-090810-SSH-011**
Sample Date:		**10/18/2016**	**08/04/2015**	**11/11/2014**	**08/25/2010**	**09/08/2010**
Depth:		**4-5 ft BTCFS**	**--**	**--**	**--**	**--**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	15	--	--	--	--
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	100 U	2300 U	2000 U	0.10 U	0.10 U
Aroclor-1221 (PCB-1221)	µg/kg	100 U	2300 U	2000 U	0.10 U	0.10 U
Aroclor-1232 (PCB-1232)	µg/kg	100 U	2300 U	2000 U	0.10 U	0.10 U
Aroclor-1242 (PCB-1242)	µg/kg	100 U	2300 U	2000 U	0.10 U	0.10 U
Aroclor-1248 (PCB-1248)	µg/kg	100 U	17000	2000 U	0.10 U	0.10 U
Aroclor-1254 (PCB-1254)	µg/kg	470000	2300 U	30000	0.10 U	0.10 U
Aroclor-1260 (PCB-1260)	µg/kg	100 U	18000	2000 U	0.10 U	0.10 U
Aroclor-1016 (PCB-1016)	µg/wipe	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	--	--	--	--	--
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**WP1**	**WP2**	**WP3**	**WP4**	**WP5**
Sample Name:		**WP-7878-100516-SSH-WP1**	**WP-7878-100516-SSH-WP2**	**WP-7878-100516-SSH-WP3**	**WP-7878-100516-SSH-WP4**	**WP-7878-100516-SSH-WP5**
Sample Date:		**10/05/2016**	**10/05/2016**	**10/05/2016**	**10/05/2016**	**10/05/2016**
Depth:		**--**	**--**	**--**	**--**	**--**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Moisture content (dry weight)	%	--	--	--	--	--
Pesticides/PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	--	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/kg	--	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/kg	--	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/kg	--	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/kg	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/kg	--	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/kg	--	--	--	--	--
Aroclor-1016 (PCB-1016)	µg/wipe	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U
Aroclor-1221 (PCB-1221)	µg/wipe	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U
Aroclor-1232 (PCB-1232)	µg/wipe	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U
Aroclor-1242 (PCB-1242)	µg/wipe	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U
Aroclor-1248 (PCB-1248)	µg/wipe	3.7	2.0 U	2.0 UJ	2.0 U	2.0 U
Aroclor-1254 (PCB-1254)	µg/wipe	2.0 U	2.0 U	2.0 UJ	2.0 U	4.9
Aroclor-1260 (PCB-1260)	µg/wipe	2.8	3.2	2.0 UJ	2.0 U	2.0 U
Volatile Organic Compounds, TCLP						
1,1-Dichloroethene	mg/L	--	--	--	--	--
1,2-Dichloroethane	mg/L	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	--	--	--
Benzene	mg/L	--	--	--	--	--
Carbon tetrachloride	mg/L	--	--	--	--	--
Chlorobenzene	mg/L	--	--	--	--	--
Chloroform (Trichloromethane)	mg/L	--	--	--	--	--
Tetrachloroethene	mg/L	--	--	--	--	--
Trichloroethene	mg/L	--	--	--	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Metals, TCLP						
Arsenic	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--

Table 2

Validated Analytical Summary Results
Additional Soil.Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Location ID:		**WP6**	**012**	**16002**
Sample Name:		**WP-7878-100516-SSH-WP6**	**O-7878-090810-SSH-012**	**C-7878-042116-SSH-16002**
Sample Date:		**10/05/2016**	**9/8/2010**	**4/21/2016**
Depth:		**--**	--	**0-2.5 in bgs**
Parameters	**Unit**			
Semivolatile Organic Compounds				
Moisture content (dry weight)	%	--	--	--
Pesticides/PCBs				
Aroclor-1016 (PCB-1016)	µg/kg	--	--	--
Aroclor-1221 (PCB-1221)	µg/kg	--	--	--
Aroclor-1232 (PCB-1232)	µg/kg	--	--	--
Aroclor-1242 (PCB-1242)	µg/kg	--	--	--
Aroclor-1248 (PCB-1248)	µg/kg	--	--	--
Aroclor-1254 (PCB-1254)	µg/kg	--	--	--
Aroclor-1260 (PCB-1260)	µg/kg	--	--	--
Aroclor-1016 (PCB-1016)	µg/wipe	2.0 U	--	--
Aroclor-1221 (PCB-1221)	µg/wipe	2.0 U	--	--
Aroclor-1232 (PCB-1232)	µg/wipe	2.0 U	--	--
Aroclor-1242 (PCB-1242)	µg/wipe	2.0 U	--	--
Aroclor-1248 (PCB-1248)	µg/wipe	2.0 U	--	--
Aroclor-1254 (PCB-1254)	µg/wipe	3.4	--	--
Aroclor-1260 (PCB-1260)	µg/wipe	2.0 U	--	--
Volatile Organic Compounds, TCLP				
1,1-Dichloroethene	mg/L	--	--	0.025 U
1,2-Dichloroethane	mg/L	--	--	0.025 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	--	--	0.25 U
Benzene	mg/L	--	--	0.025 U
Carbon tetrachloride	mg/L	--	--	0.025 U
Chlorobenzene	mg/L	--	--	0.025 U
Chloroform (Trichloromethane)	mg/L	--	--	0.025 U
Tetrachloroethene	mg/L	--	--	0.025 U
Trichloroethene	mg/L	--	--	0.025 U
Vinyl chloride	mg/L	--	--	0.025 U
Metals, TCLP				
Arsenic	mg/L	--	0.50 U	0.0067 J
Barium	mg/L	--	10.0 U	0.24 J
Cadmium	mg/L	--	0.10 U	0.10 U
Chromium	mg/L	--	1.4	0.50 U
Lead	mg/L	--	0.67	0.0024 J
Mercury	mg/L	--	0.033 U	0.0020 U
Selenium	mg/L	--	0.50 U	0.25 U
Silver	mg/L	--	0.50 U	0.50 U

Notes

U - Not detected at the associated reporting limit
J - Estimated Concentration

Table 3

Analytical Methods
Additional Soil/Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Parameter	Method	Matrix	Holding Time	
			Collection to Extraction (Days)	Collection or Extraction to Analysis (Days)
PCB	SW-846 8082	Concrete	14	40
TCLP VOC	SW-846 8260B	Concrete	14	14
TCLP Metals (except Mercury)	SW-846 6010B	Concrete	180	180
Mercury	SW-846 7470A	Concrete	28	28

Notes:

Method References:

SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions

PCB - Polychlorinated biphenyls

TCLP - Toxicity Characteristic Leaching Procedure

VOC - Volatile Organic Compounds

Table 4

Qualified Sample Results Due to Holding Time Exceedance
Additional Soil/Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Parameter	Sample ID	Holding Time (days)	Holding Time Criteria (days)	Analyte	Qualified Sample Results	Units
PCB	C-7878-092116-SSH-K11-4	23	14	Aroclor-1016 (PCB-1016)	100 UJ	µg/kg
				Aroclor-1221 (PCB-1221)	100 UJ	µg/kg
				Aroclor-1232 (PCB-1232)	100 UJ	µg/kg
				Aroclor-1242 (PCB-1242)	100 UJ	µg/kg
				Aroclor-1248 (PCB-1248)	100 UJ	µg/kg
				Aroclor-1254 (PCB-1254)	3300 J	µg/kg
				Aroclor-1260 (PCB-1260)	100 UJ	µg/kg
PCB	C-7878-092116-SSH-K11-8	23	14	Aroclor-1016 (PCB-1016)	1000 UJ	µg/kg
				Aroclor-1221 (PCB-1221)	1000 UJ	µg/kg
				Aroclor-1232 (PCB-1232)	1000 UJ	µg/kg
				Aroclor-1242 (PCB-1242)	1000 UJ	µg/kg
				Aroclor-1248 (PCB-1248)	1000 UJ	µg/kg
				Aroclor-1254 (PCB-1254)	14000 J	µg/kg
				Aroclor-1260 (PCB-1260)	1000 UJ	µg/kg
PCB	C-7878-092116-SSH-K10-2	26	14	Aroclor-1016 (PCB-1016)	100 UJ	µg/kg
				Aroclor-1221 (PCB-1221)	100 UJ	µg/kg
				Aroclor-1232 (PCB-1232)	100 UJ	µg/kg
				Aroclor-1242 (PCB-1242)	100 UJ	µg/kg
				Aroclor-1248 (PCB-1248)	100 UJ	µg/kg
				Aroclor-1254 (PCB-1254)	1600 J	µg/kg
				Aroclor-1260 (PCB-1260)	100 UJ	µg/kg
PCB	C-7878-092716-SSH-K16-7	26	14	Aroclor-1016 (PCB-1016)	520 UJ	µg/kg
				Aroclor-1221 (PCB-1221)	520 UJ	µg/kg
				Aroclor-1232 (PCB-1232)	520 UJ	µg/kg
				Aroclor-1242 (PCB-1242)	520 UJ	µg/kg
				Aroclor-1248 (PCB-1248)	520 UJ	µg/kg
				Aroclor-1254 (PCB-1254)	3000 J	µg/kg
				Aroclor-1260 (PCB-1260)	520 UJ	µg/kg

Table 4

Qualified Sample Results Due to Holding Time Exceedance
Additional Soil/Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Parameter	Sample ID	Holding Time (days)	Holding Time Criteria (days)	Analyte	Qualified Sample Results	Units
PCB	C-7878-092716-SSH-K5-5	18	14	Aroclor-1016 (PCB-1016)	520 UJ	µg/kg
				Aroclor-1221 (PCB-1221)	520 UJ	µg/kg
				Aroclor-1232 (PCB-1232)	520 UJ	µg/kg
				Aroclor-1242 (PCB-1242)	520 UJ	µg/kg
				Aroclor-1248 (PCB-1248)	520 UJ	µg/kg
				Aroclor-1254 (PCB-1254)	3100 J	µg/kg
				Aroclor-1260 (PCB-1260)	520 UJ	µg/kg

Notes:

J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated

PCB - Polychlorinated biphenyls

Table 5

Qualified Sample Results Due to Analyte Concentrations in the Method Blanks
Additional Soil/Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Parameter	Analyte	Analysis Date (mm/dd/yyyy)	Blank Result	Sample ID	Original Result	Qualified Result	Units
TCLP Metals	Chromium	04/27/2016	0.000913 J	C-7878-042116-SSH-16002	0.0022 J	0.50 U	mg/L

Notes:

U - Not detected at the associated reporting limit
J - Estimated concentration

TCLP - Toxicity Characteristic Leaching Procedure

Table 6

Qualified Sample Data Due to Outlying Surrogate Recoveries
Additional Soil/Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
2010, 2014, 2015, 2016

Parameter	Sample ID	Surrogate	Surrogate % Recovery	Control Limits % Recovery	Analyte	Qualified Result	Units
PCB	C-7878-072516-SSH-6023	Decachlorobiphenyl	1653	10-132	Aroclor-1254	1900 J	µg/kg
PCB	WP-7878-100516-SSH-WP3	Tetrachloro-m-xylene	15	23-133	Aroclor-1016	2.0 UJ	µg/wipe
					Aroclor-1221	2.0 UJ	µg/wipe
					Aroclor-1232	2.0 UJ	µg/wipe
					Aroclor-1242	2.0 UJ	µg/wipe
					Aroclor-1248	2.0 UJ	µg/wipe
					Aroclor-1254	2.0 UJ	µg/wipe
					Aroclor-1260	2.0 UJ	µg/wipe

Notes:

J - Estimated concentration

UJ - Not detected; associated reporting limit is estimated

PCB - Polychlorinated biphenyls

Memorandum

March 1, 2017

To:	Mike Tomka	Ref. No.:	007878
From:	Ruth Mickle/tl/71/Det	Tel:	734-453-5123
CC:	John-Eric Pardys		

Subject: **Analytical Results and Reduced Validation**
Additional Soil/Concrete Investigation
MLC/Saginaw Malleable Iron Plant
Saginaw, Michigan
October 2016 - February 2017

1. Introduction

This document details a reduced validation of analytical results for concrete and soil samples collected in support of the Additional Soil/Concrete Investigation at the MLC/Malleable Iron Plant Site between October 2016 and February 2017. Samples were submitted to TestAmerica Laboratories, Inc., located in North Canton, Ohio and ALS Environmental located in Holland, Michigan. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Tables 2A and 2B. A summary of the analytical methodology is presented in Table 3.

Standard GHD report deliverables were submitted by the laboratory. The final results and supporting quality assurance/quality control (QA/QC) data were assessed. Evaluation of the data was based on information obtained from the chain of custody forms, finished report forms, method blank data, and recovery data from surrogate spikes/laboratory control samples (LCS)/matrix spikes (MS).

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 3 and applicable guidance from the documents entitled:

i) "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", United States Environmental Protection Agency (USEPA) 540/R-99-008, October 1999

ii) "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review", USEPA 540/R-94-013, February 1994

Items i) and ii) will subsequently be referred to as the "Guidelines" in this Memorandum.

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2. Sample Holding Time and Preservation

The sample holding time criteria for the analyses are summarized in Table 3. Sample chain of custody documents and analytical reports were used to determine sample holding times. The samples were prepared and analyzed within the required holding times.

All samples were properly preserved, delivered on ice, and stored by the laboratory at the required temperature (4 +/- 2°C).

3. Laboratory Method Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures.

For this study, laboratory method blanks were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

All method blank results were non-detect, indicating that laboratory contamination was not a factor for this investigation.

4. Surrogate Spike Recoveries - Organic Analyses

In accordance with the methods employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample extraction and/or analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for pesticides, polychlorinated biphenyls (PCB), herbicides and semi-volatile organic compounds (SVOC) determinations were spiked with the appropriate number of surrogate compounds prior to sample extraction and/or analysis.

Each individual surrogate compound is expected to meet the laboratory control limits with the exception of SVOC analyses. According to the "Guidelines" for SVOC analyses, up to one outlying surrogate in the base/neutral or acid fractions is acceptable as long as the recovery is at least 10 percent.

Surrogate recoveries were assessed against laboratory control limits. All surrogate recoveries were acceptable. with the exception of a few PCB surrogates that were diluted out and could not be assessed due to the presence of high concentrations of target analytes.

5. Laboratory Control Sample (LCS) Analyses

LCS are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects.

For this study, LCS were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

Organic Analyses

The LCS contained all compounds of interest or the compounds specified in the method. All LCS were within the laboratory control limits, demonstrating acceptable analytical accuracy.

Inorganic Analyses

The LCS contained all analytes of interest. LCS recoveries were assessed per the "Guidelines". All LCS recoveries were within the control limits, demonstrating acceptable analytical accuracy.

6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

To evaluate the effects of sample matrices on the preparation process, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS/MSD samples. The RPD between the MS and MSD is used to assess analytical precision.

MS/MSD analyses were performed as specified in Table 1.

Organic Analyses

The MS or MS/MSD samples were spiked with the compounds specified in the method. The percent recoveries and RPD values were within the laboratory control limits for investigative samples.

Inorganic Analyses

The MS/MSD samples were spiked with the analytes of interest, and the results were evaluated using the "Guidelines". All percent recoveries and RPD values were within the control limits, demonstrating acceptable analytical accuracy and precision.

7. Analyte Reporting

The laboratory reported detected results down to the laboratory's method detection limit (MDL) for each analyte. Positive analyte detections less than the RL but greater than the MDL were reported as estimated (J) in Tables 2A and 2B unless qualified otherwise in this memorandum. Non-detect results were presented as non-detect at the RL in Tables 2A and 2B.

8. Conclusion

Based on the assessment detailed in the foregoing, the data summarized in Tables 2A and 2B are acceptable without qualification.

Table 1

Sample Collection and Analysis Summary
Additional Soil/Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
October 2016 - February 2017

Sample Identification	Location	Matrix	Initial Sample Depth (ft. bgs.)	Final Sample Depth (ft. bgs.)	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters: Pesticides	PCB	Select Herbicides	Select SVOC	Select Metals	Comments
ALS SDG No.: 16111263												
C-7878-102816-SSH-6364	6364	concrete	0	2.5	10/28/2016	9:00	--	X	--	--	--	
ALS SDG No.: 16111372												
C-7878-111816-SSH-6374	6374	concrete	--	--	11/18/2016	9:50	--	X	--	--	--	
C-7878-111816-SSH-6376	6376	concrete	--	--	11/18/2016	10:10	--	X	--	--	--	
TA SDG No.: 240-74450-1												
S-7878-011617-SSH-0117	Topsoil-01	soil	--	--	01/16/2017	10:30	X	X	X	X	X	MS/MSD-P
S-7878-011617-SSH-0217	Topsoil-02	soil	--	--	01/16/2017	10:35	X	X	X	X	X	
S-7878-011617-SSH-0317	Topsoil-03	soil	--	--	01/16/2017	10:40	X	X	X	X	X	
S-7878-011617-SSH-0417	Topsoil-04	soil	--	--	01/16/2017	10:45	X	X	X	X	X	
S-7878-011617-SSH-0517	Topsoil-05	soil	--	--	01/16/2017	10:50	X	X	X	X	X	
S-7878-011617-SSH-0617	Topsoil-06	soil	--	--	01/16/2017	10:55	X	X	X	X	X	
S-7878-011617-SSH-0717	Topsoil-07	soil	--	--	01/16/2017	11:00	X	X	X	X	X	
S-7878-011617-SSH-0817	Topsoil-08	soil	--	--	01/16/2017	11:05	X	X	X	X	X	
S-7878-011617-SSH-0917	Topsoil-09	soil	--	--	01/16/2017	11:10	X	X	X	X	X	MS/MSD-P
TA SDG No.: 240-75057-1												
S-7878-013117-SSH-1017A	BH59-17	soil	0	2	01/31/2017	10:25	--	X	--	--	--	
S-7878-013117-SSH-1017B	BH59-17	soil	2	4	01/31/2017	10:30	--	X	--	--	--	
S-7878-013117-SSH-1017C	BH59-17	soil	4	6	01/31/2017	10:35	--	X	--	--	--	
S-7878-013117-SSH-1019A	BH58-17	soil	0	2	01/31/2017	11:15	--	X	--	--	--	
S-7878-013117-SSH-1019B	BH58-17	soil	2	4	01/31/2017	11:20	--	X	--	--	--	
S-7878-013117-SSH-1019C	BH58-17	soil	4	6	01/31/2017	11:25	--	X	--	--	--	
S-7878-013117-SSH-1022	A-Comp	soil	--	--	01/31/2017	13:46	--	X	--	--	--	
S-7878-013117-SSH-1023	D-Comp	soil	--	--	01/31/2017	14:55	--	X	--	--	--	
S-7878-013117-SSH-1024	C1-Comp	soil	--	--	01/31/2017	15:50	--	X	--	--	--	
S-7878-013117-SSH-1025	B1-Comp	soil	--	--	01/31/2017	16:55	--	X	--	--	--	MS/MSD

Table 1

Sample Collection and Analysis Summary
Additional Soil/Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
October 2016 - February 2017

							Analysis/Parameters					
Sample Identification	**Location**	**Matrix**	**Initial Sample Depth (ft. bgs.)**	**Final Sample Depth (ft. bgs.)**	**Collection Date (mm/dd/yyyy)**	**Collection Time (hr:min)**	**Pesticides**	**PCB**	**Select Herbicides**	**Select SVOC**	**Select Metals**	**Comments**
TA SDG No.: 240-75317-1												
S-7878-020717-SK-001	B2-Comp	soil	--	--	02/07/2017	10:30	--	X	--	--	--	
S-7878-020717-SK-002	C2-Comp	soil	--	--	02/07/2017	13:30	--	X	--	--	--	

Notes:

ft. bgs.	- Feet below ground surface
MS/MSD	- Matrix Spike/Matrix Spike Duplicate
MS/MSD-P	- Matrix Spike/Matrix Spike Duplicate (Partial parameters)
PCB	- Polychlorinated biphenyls
SVOC	- Semi-Volatile Organic Compounds
TA	- TestAmerica Labortories, Inc. - North Canton, Ohio
ALS	- ALS Environmental - Holland, Michigan
SDG	- Sample Delivery Group

Table 2A

Validated Analytical Summary Results - Concrete
Additional Soil/Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
October - November 2016

Location ID:		6364	6374	6376
Sample Name:		C-7878-102816-SSH-6364	C-7878-111816-SSH-6374	C-7878-111816-SSH-6376
Sample Date:		10/28/2016	11/18/2016	11/18/2016
Depth:		0-2.5 in BGS	--	--
Parameters	**Unit**			
PCBs				
Aroclor-1016 (PCB-1016)	µg/kg	86 U	96 U	84 U
Aroclor-1221 (PCB-1221)	µg/kg	86 U	96 U	84 U
Aroclor-1232 (PCB-1232)	µg/kg	86 U	96 U	84 U
Aroclor-1242 (PCB-1242)	µg/kg	86 U	96 U	84 U
Aroclor-1248 (PCB-1248)	µg/kg	86 U	96 U	84 U
Aroclor-1254 (PCB-1254)	µg/kg	440	830	380
Aroclor-1260 (PCB-1260)	µg/kg	86 U	96 U	84 U
Moisture content (dry weight)	%	3.9	1.9	3.5

Notes

U - Not detected at the associated reporting limit

Table 2B

Validated Analytical Summary Results - Soil
Additional Soil/Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
October 2016 - February 2017

Location ID:		A-Comp	B1-Comp	BH58-17	BH58-17	BH58-17	BH59-17
Sample Name:		S-7878-013117-SSH-1022	S-7878-013117-SSH-1025	S-7878-013117-SSH-1019B	S-7878-013117-SSH-1019C	S-7878-013117-SSH-1019A	S-7878-013117-SSH-1017B
Sample Date:		01/31/2017	01/31/2017	01/31/2017	01/31/2017	01/31/2017	01/31/2017
Depth:		--	--	2-4 in BGS	4-6 in BGS	0-2 in BGS	2-4 in BGS
Parameters	**Unit**						
Semivolatile Organic Compounds							
Alachlor	µg/kg	--	--	--	--	--	--
Atrazine	µg/kg	--	--	--	--	--	--
Herbicides							
2,4,5-T	µg/kg	--	--	--	--	--	--
2,4,5-TP (Silvex)	µg/kg	--	--	--	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	--	--	--	--	--	--
Pesticides/PCBs							
4,4'-DDD	µg/kg	--	--	--	--	--	--
4,4'-DDE	µg/kg	--	--	--	--	--	--
4,4'-DDT	µg/kg	--	--	--	--	--	--
Aldrin	µg/kg	--	--	--	--	--	--
alpha-BHC	µg/kg	--	--	--	--	--	--
alpha-Chlordane	µg/kg	--	--	--	--	--	--
Aroclor-1016 (PCB-1016)	µg/kg	58 U	57 U	57 U	55 U	58 U	61 U
Aroclor-1221 (PCB-1221)	µg/kg	58 U	57 U	57 U	55 U	58 U	61 U
Aroclor-1232 (PCB-1232)	µg/kg	58 U	57 U	57 U	55 U	58 U	61 U
Aroclor-1242 (PCB-1242)	µg/kg	58 U	57 U	57 U	55 U	58 U	61 U
Aroclor-1248 (PCB-1248)	µg/kg	58 U	57 U	57 U	55 U	58 U	61 U
Aroclor-1254 (PCB-1254)	µg/kg	390	20 J	1200	190	39 J	510
Aroclor-1260 (PCB-1260)	µg/kg	58 U	57 U	57 U	55 U	58 U	61 U
beta-BHC	µg/kg	--	--	--	--	--	--
delta-BHC	µg/kg	--	--	--	--	--	--
Dieldrin	µg/kg	--	--	--	--	--	--
Endosulfan I	µg/kg	--	--	--	--	--	--
Endosulfan II	µg/kg	--	--	--	--	--	--
Endosulfan sulfate	µg/kg	--	--	--	--	--	--
Endrin	µg/kg	--	--	--	--	--	--
Endrin aldehyde	µg/kg	--	--	--	--	--	--
Endrin ketone	µg/kg	--	--	--	--	--	--
gamma-BHC (lindane)	µg/kg	--	--	--	--	--	--
gamma-Chlordane	µg/kg	--	--	--	--	--	--
Heptachlor	µg/kg	--	--	--	--	--	--
Heptachlor epoxide	µg/kg	--	--	--	--	--	--
Methoxychlor	µg/kg	--	--	--	--	--	--
Toxaphene	µg/kg	--	--	--	--	--	--
Select Metals							
Arsenic	mg/kg	--	--	--	--	--	--
Lead	mg/kg	--	--	--	--	--	--

Table 2B

Validated Analytical Summary Results - Soil
Additional Soil/Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
October 2016 - February 2017

Location ID:		BH59-17	BH59-17	C1-Comp	D-Comp	Topsoil-01	Topsoil-02
Sample Name:		S-7878-013117-SSH-1017C	S-7878-013117-SSH-1017A	S-7878-013117-SSH-1024	S-7878-013117-SSH-1023	S-7878-011617-SSH-0117	S-7878-011617-SSH-0217
Sample Date:		01/31/2017	01/31/2017	01/31/2017	01/31/2017	01/16/2017	01/16/2017
Depth:		4-6 in BGS	0-2 in BGS	--	--	--	--
Parameters	**Unit**						
Semivolatile Organic Compounds							
Alachlor	µg/kg	--	--	--	--	380 U	380 U
Atrazine	µg/kg	--	--	--	--	200 U	200 U
Herbicides							
2,4,5-T	µg/kg	--	--	--	--	69 U	70 U
2,4,5-TP (Silvex)	µg/kg	--	--	--	--	69 U	70 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	--	--	--	--	280 U	280 U
Pesticides/PCBs							
4,4'-DDD	µg/kg	--	--	--	--	5.9 U	5.9 U
4,4'-DDE	µg/kg	--	--	--	--	5.9 U	5.9 U
4,4'-DDT	µg/kg	--	--	--	--	5.9 U	5.9 U
Aldrin	µg/kg	--	--	--	--	5.9 U	5.9 U
alpha-BHC	µg/kg	--	--	--	--	5.9 U	5.9 U
alpha-Chlordane	µg/kg	--	--	--	--	5.9 U	5.9 U
Aroclor-1016 (PCB-1016)	µg/kg	63 U	580 U	59 U	58 U	58 U	58 U
Aroclor-1221 (PCB-1221)	µg/kg	63 U	580 U	59 U	58 U	58 U	58 U
Aroclor-1232 (PCB-1232)	µg/kg	63 U	580 U	59 U	58 U	58 U	58 U
Aroclor-1242 (PCB-1242)	µg/kg	63 U	580 U	59 U	58 U	58 U	58 U
Aroclor-1248 (PCB-1248)	µg/kg	63 U	580 U	59 U	58 U	58 U	58 U
Aroclor-1254 (PCB-1254)	µg/kg	49 J	21000	22 J	590	58 U	58 U
Aroclor-1260 (PCB-1260)	µg/kg	63 U	580 U	59 U	58 U	58 U	58 U
beta-BHC	µg/kg	--	--	--	--	5.9 U	5.9 U
delta-BHC	µg/kg	--	--	--	--	5.9 U	5.9 U
Dieldrin	µg/kg	--	--	--	--	5.9 U	5.9 U
Endosulfan I	µg/kg	--	--	--	--	5.9 U	5.9 U
Endosulfan II	µg/kg	--	--	--	--	5.9 U	5.9 U
Endosulfan sulfate	µg/kg	--	--	--	--	5.9 U	5.9 U
Endrin	µg/kg	--	--	--	--	5.9 U	5.9 U
Endrin aldehyde	µg/kg	--	--	--	--	5.9 U	5.9 U
Endrin ketone	µg/kg	--	--	--	--	5.9 U	5.9 U
gamma-BHC (lindane)	µg/kg	--	--	--	--	5.9 U	5.9 U
gamma-Chlordane	µg/kg	--	--	--	--	5.9 U	5.9 U
Heptachlor	µg/kg	--	--	--	--	5.9 U	5.9 U
Heptachlor epoxide	µg/kg	--	--	--	--	5.9 U	5.9 U
Methoxychlor	µg/kg	--	--	--	--	12 U	11 U
Toxaphene	µg/kg	--	--	--	--	120 U	120 U
Select Metals							
Arsenic	mg/kg	--	--	--	--	1.8	1.8
Lead	mg/kg	--	--	--	--	7.8	8.2

Table 2B

Validated Analytical Summary Results - Soil
Additional Soil/Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
October 2016 - February 2017

Location ID:		Topsoil-03	Topsoil-04	Topsoil-05	Topsoil-06	Topsoil-07	Topsoil-08
Sample Name:		S-7878-011617-SSH-0317	S-7878-011617-SSH-0417	S-7878-011617-SSH-0517	S-7878-011617-SSH-0617	S-7878-011617-SSH-0717	S-7878-011617-SSH-0817
Sample Date:		01/16/2017	01/16/2017	01/16/2017	01/16/2017	01/16/2017	01/16/2017
Depth:		--	--	--	--	--	--
Parameters	**Unit**						
Semivolatile Organic Compounds							
Alachlor	µg/kg	380 U	380 U	380 U	380 U	1900 U	390 U
Atrazine	µg/kg	200 U	200 U	200 U	200 U	980 U	200 U
Herbicides							
2,4,5-T	µg/kg	71 U	71 U	71 U	70 U	68 U	72 U
2,4,5-TP (Silvex)	µg/kg	71 U	71 U	71 U	70 U	68 U	72 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	280 U	280 U	280 U	280 U	270 U	290 U
Pesticides/PCBs							
4,4'-DDD	µg/kg	6.0 U	6.0 U	6.0 U	5.9 U	5.8 U	6.0 U
4,4'-DDE	µg/kg	6.0 U	6.0 U	6.0 U	5.9 U	5.8 U	6.0 U
4,4'-DDT	µg/kg	6.0 U	6.0 U	6.0 U	5.9 U	5.8 U	6.0 U
Aldrin	µg/kg	6.0 U	6.0 U	6.0 U	5.9 U	5.8 U	6.0 U
alpha-BHC	µg/kg	6.0 U	6.0 U	6.0 U	5.9 U	5.8 U	6.0 U
alpha-Chlordane	µg/kg	6.0 U	6.0 U	6.0 U	5.9 U	5.8 U	6.0 U
Aroclor-1016 (PCB-1016)	µg/kg	59 U	59 U	59 U	58 U	57 U	59 U
Aroclor-1221 (PCB-1221)	µg/kg	59 U	59 U	59 U	58 U	57 U	59 U
Aroclor-1232 (PCB-1232)	µg/kg	59 U	59 U	59 U	58 U	57 U	59 U
Aroclor-1242 (PCB-1242)	µg/kg	59 U	59 U	59 U	58 U	57 U	59 U
Aroclor-1248 (PCB-1248)	µg/kg	59 U	59 U	59 U	58 U	57 U	59 U
Aroclor-1254 (PCB-1254)	µg/kg	59 U	59 U	59 U	58 U	57 U	59 U
Aroclor-1260 (PCB-1260)	µg/kg	59 U	59 U	59 U	58 U	57 U	59 U
beta-BHC	µg/kg	6.0 U	6.0 U	6.0 U	5.9 U	5.8 U	6.0 U
delta-BHC	µg/kg	6.0 U	6.0 U	6.0 U	5.9 U	5.8 U	6.0 U
Dieldrin	µg/kg	6.0 U	6.0 U	6.0 U	5.9 U	5.8 U	6.0 U
Endosulfan I	µg/kg	6.0 U	6.0 U	6.0 U	5.9 U	5.8 U	6.0 U
Endosulfan II	µg/kg	6.0 U	6.0 U	6.0 U	5.9 U	5.8 U	6.0 U
Endosulfan sulfate	µg/kg	6.0 U	6.0 U	6.0 U	5.9 U	5.8 U	6.0 U
Endrin	µg/kg	6.0 U	6.0 U	6.0 U	5.9 U	5.8 U	6.0 U
Endrin aldehyde	µg/kg	6.0 U	6.0 U	6.0 U	5.9 U	5.8 U	6.0 U
Endrin ketone	µg/kg	6.0 U	6.0 U	6.0 U	5.9 U	5.8 U	6.0 U
gamma-BHC (lindane)	µg/kg	6.0 U	6.0 U	6.0 U	5.9 U	5.8 U	6.0 U
gamma-Chlordane	µg/kg	6.0 U	6.0 U	6.0 U	5.9 U	5.8 U	6.0 U
Heptachlor	µg/kg	6.0 U	6.0 U	6.0 U	5.9 U	5.8 U	6.0 U
Heptachlor epoxide	µg/kg	6.0 U	6.0 U	6.0 U	5.9 U	5.8 U	6.0 U
Methoxychlor	µg/kg	12 U	12 U	12 U	12 U	11 U	12 U
Toxaphene	µg/kg	120 U	120 U	120 U	120 U	110 U	120 U
Select Metals							
Arsenic	mg/kg	1.8	1.7	1.9	1.8	1.9	2.1
Lead	mg/kg	8.7	8.1	8.8	8.0	8.9	8.6

Table 2B

Validated Analytical Summary Results - Soil
Additional Soil/Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
October 2016 - February 2017

Location ID:		**Topsoil-09**	**B2-Comp**	**C2-Comp**
Sample Name:		**S-7878-011617-SSH-0917**	**S-7878-020717-SK-001**	**S-7878-020717-SK-002**
Sample Date:		**01/16/2017**	**02/07/2017**	**02/07/2017**
Depth:		**--**	**--**	**--**
Parameters	**Unit**			
Semivolatile Organic Compounds				
Alachlor	µg/kg	400 U	--	--
Atrazine	µg/kg	200 U	--	--
Herbicides				
2,4,5-T	µg/kg	71 U	--	--
2,4,5-TP (Silvex)	µg/kg	71 U	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	280 U	--	--
Pesticides/PCBs				
4,4'-DDD	µg/kg	6.1 U	--	--
4,4'-DDE	µg/kg	6.1 U	--	--
4,4'-DDT	µg/kg	6.1 U	--	--
Aldrin	µg/kg	6.1 U	--	--
alpha-BHC	µg/kg	6.1 U	--	--
alpha-Chlordane	µg/kg	6.1 U	--	--
Aroclor-1016 (PCB-1016)	µg/kg	60 U	1100 U	570 U
Aroclor-1221 (PCB-1221)	µg/kg	60 U	1100 U	570 U
Aroclor-1232 (PCB-1232)	µg/kg	60 U	1100 U	570 U
Aroclor-1242 (PCB-1242)	µg/kg	60 U	1100 U	570 U
Aroclor-1248 (PCB-1248)	µg/kg	60 U	1100 U	570 U
Aroclor-1254 (PCB-1254)	µg/kg	60 U	11000	6800
Aroclor-1260 (PCB-1260)	µg/kg	60 U	1100 U	570 U
beta-BHC	µg/kg	6.1 U	--	--
delta-BHC	µg/kg	6.1 U	--	--
Dieldrin	µg/kg	6.1 U	--	--
Endosulfan I	µg/kg	6.1 U	--	--
Endosulfan II	µg/kg	6.1 U	--	--
Endosulfan sulfate	µg/kg	6.1 U	--	--
Endrin	µg/kg	6.1 U	--	--
Endrin aldehyde	µg/kg	6.1 U	--	--
Endrin ketone	µg/kg	6.1 U	--	--
gamma-BHC (lindane)	µg/kg	6.1 U	--	--
gamma-Chlordane	µg/kg	6.1 U	--	--
Heptachlor	µg/kg	6.1 U	--	--
Heptachlor epoxide	µg/kg	6.1 U	--	--
Methoxychlor	µg/kg	12 U	--	--
Toxaphene	µg/kg	120 U	--	--
Select Metals				
Arsenic	mg/kg	1.8		
Lead	mg/kg	7.9		

Notes

U - Not detected at the associated reporting limit
J - Estimated Concentration

Table 3

Analytical Methods
Additional Soil/Concrete Investigation
MLC Saginaw Malleable Iron Plant
Saginaw, Michigan
October 2016 - February 2017

Parameter	Method	Matrix	Holding Time	
			Collection to Extraction (Days)	Collection or Extraction to Analysis (Days)
PCB	SW-846 8082	Concrete/Soil	14	40
Pesticides	SW-846 8081A	Soil	14	40
Select Herbicides	SW-846 8151A	Soil	14	40
Select SVOC	SW-846 8270D	Soil	14	40
Select Metals	SW-846 6020	Soil	--	180

Notes:

Method References:

SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions

PCB - Polychlorinated biphenyls

SVOC - Semi-Volatile Organic Compounds

Appendix D
Permits

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER RESOURCES DIVISION
PERMIT

ISSUED TO:

RACER Properties, LLC
c/o Dave Favero
500 Woodward Avenue
Suite 2650
Detroit, Michigan 48226

Permit No.	WRP002985
Issued	June 19, 2016
Extended	
Revised	
Expires	June 19, 2021

This permit is being issued by the Michigan Department of Environmental Quality (MDEQ) under the provisions of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA), and specifically:

- ☐ **Part 301, Inland Lakes and Streams**
- ☐ **Part 315, Dam Safety**
- ☐ **Part 325, Great Lakes Submerged Lands**
- ☐ **Part 323, Shorelands Protection and Management**
- ☐ **Part 303, Wetlands Protection**
- ☐ **Part 353, Sand Dunes Protection and Management**
- ☒ **Part 31, Floodplain/Water Resources Protection**

Permission is hereby granted, based on permittee assurance of adherence to State of Michigan requirements and permit conditions, to:

Permitted Activity:

Place up to 2,700 cubic yards of clean fill and excavate 2,800 cubic yards as compensating cut to preserve floodplain storage within the 100-year floodplain of the Saginaw River.

All work must be completed in accordance with the attached plans.

Water Course Affected: Saginaw River
Property Location: Saginaw County, City of Saginaw, Sections 34 and 35
Town/Range 12N/04E Property Tax No. 19 2231 00000

Authority granted by this permit is subject to the following limitations:

A. Initiation of any work on the permitted project confirms the permittee's acceptance and agreement to comply with all terms and conditions of this permit.
B. The permittee, in exercising the authority granted by this permit, shall not cause unlawful pollution as defined by Part 31, Water Resources Protection, of the NREPA.
C. This permit shall be kept at the site of the work and available for inspection at all times during the duration of the project or until its date of expiration.
D. All work shall be completed in accordance with the approved plans and specifications submitted with the application and/or plans and specifications attached to this permit.
E. No attempt shall be made by the permittee to forbid the full and free use by the public of public waters at or adjacent to the structure or work approved.
F. It is made a requirement of this permit that the permittee give notice to public utilities in accordance with Act 53 of the Public Act of 1974 and comply with each of the requirements of that Act.
G. This permit does not convey property rights in either real estate or material, nor does it authorize any injury to private property or invasion of public or private rights, nor does it waive the necessity of seeking federal assent, all local permits, or complying with other state statutes.
H. This permit does not prejudice or limit the right of a riparian owner or other person to institute proceedings in any circuit court of this state when necessary to protect his rights.
I. Permittee shall notify the MDEQ within one week after the completion of the activity authorized by this permit, by completing and forwarding the attached preaddressed postcard to the office addressed thereon.
J. This permit shall not be assigned or transferred without the written approval of the MDEQ.

K. Failure to comply with conditions of this permit may subject the permittee to revocation of permit and criminal and/or civil action as cited by the specific state act, federal act, and/or rule under which this permit is granted.
L. All dredged or excavated materials shall be disposed of in an upland site (outside of floodplains, unless exempt under Part 31, and wetland).
M. In issuing this permit, the MDEQ has relied on the information and data that the permittee has provided in connection with the submitted application for permit. If, subsequent to the issuance of a permit, such information and data prove to be false, incomplete, or inaccurate, the MDEQ may modify, revoke, or suspend the permit, in whole or in part, in accordance with the new information.
N. The permittee shall indemnify and hold harmless the State of Michigan and its departments, agencies, officials, employees, agents and representatives for any and all claims or causes of action arising from acts or omissions of the permittee or employees, agents, or representatives of the permittee undertaken in connection with this permit. This permit shall not be construed as an indemnity by the State of Michigan for the benefit of the permittee or any other person.
O. Noncompliance with these terms and conditions and/or the initiation of other regulated activities not specifically authorized shall be cause for the modification, suspension, or revocation of this permit, in whole or in part. Further, the MDEQ may initiate criminal and/or civil proceedings as may be deemed necessary to correct project deficiencies, protect natural resource values, and secure compliance with statutes.
P. If any change or deviation from the permitted activity becomes necessary, the permittee shall request, in writing, a revision of the permitted activity from the MDEQ. Such revision request shall include complete documentation supporting the modification and revised plans detailing the proposed modification. Proposed modifications must be approved, in writing, by the MDEQ prior to being implemented.
Q. This permit may be transferred to another person upon written approval of the MDEQ. The permittee must submit a written request to the MDEQ to transfer the permit to the new owner. The new owner must also submit a written request to the MDEQ to accept transfer. The new owner must agree, in writing, to accept all conditions of the permit. A single letter signed by both parties which includes all the above information may be provided to the MDEQ. The MDEQ will review the request and if approved, will provide written notification to the new owner.
R. Prior to initiating permitted construction, the permittee is required to provide a copy of the permit to the contractor(s) for review. The property owner, contractor(s), and any agent involved in exercising the permit are held responsible to ensure that the project is constructed in accordance with all drawings and specifications. The contractor is required to provide a copy of the permit to all subcontractors doing work authorized by the permit.
S. Construction must be undertaken and completed during the dry period of the wetland. If the area does not dry out, construction shall be done on equipment mats to prevent compaction of the soil.
T. Authority granted by this permit does not waive permit requirements under Part 91, Soil Erosion and Sedimentation Control, of the NREPA, or the need to acquire applicable permits from the County Enforcing Agent.
U. Authority granted by this permit does not waive permit requirements under the authority of Part 305, Natural Rivers, of the NREPA. A Natural Rivers Zoning Permit may be required for construction, land alteration, streambank stabilization, or vegetation removal along or near a natural river.
V. The permittee is cautioned that grade changes resulting in increased runoff onto adjacent property is subject to civil damage litigation.
W. Unless specifically stated in this permit, construction pads, haul roads, temporary structures, or other structural appurtenances to be placed in a wetland or on bottomland of the waterbody are not authorized and shall not be constructed unless authorized by a separate permit or permit revision granted in accordance with the applicable law.
X. For projects with potential impacts to fish spawning or migration, no work shall occur within fish spawning or migration timelines (i.e., windows) unless otherwise approved in writing by the MDNR, Fisheries Division.
Y. Work to be done under authority of this permit is further subject to the following special instructions and specifications:

1. The design flood or 1% annual chance (100-year) floodplain elevation at this location on the Saginaw River is 593.3 feet NGVD29.

2. Prior to the initiation of any permitted construction activities, a sedimentation barrier shall be constructed immediately down gradient of the construction site. Sedimentation barriers shall be specifically designed to handle the sediment type, load, water depth, and flow conditions of each construction site throughout the anticipated time of construction and unstable site conditions. The sedimentation barrier shall be maintained in good working order throughout the duration of the project. Upon project completion, the accumulated materials shall be removed and disposed of at an upland (non-wetland, non-floodplain) site and stabilized with seed and mulch. The sedimentation barrier shall then be removed in its entirety and the area restored to its original configuration and cover.

3. All raw areas in uplands resulting from the permitted construction activity shall be effectively stabilized with sod and/or seed and mulch (or other technology specified by this permit or project plans) in a sufficient quantity and manner to prevent erosion and any potential siltation to surface waters, wetlands, and/or floodplains. Temporary stabilization measures shall be installed before or upon commencement of the permitted activity, and shall be maintained until permanent measures are in place. Permanent measures shall be in place within five (5) days of achieving final grade.

4. Unless specifically stated under the "Permitted Activity" of this permit, construction pads, haul roads, temporary structures, or other structural appurtenances to be placed in a floodplain, wetland or on bottomland of the waterbody are not authorized and shall not be constructed unless authorized by a separate permit or permit revision granted in accordance with the applicable law.

5. Fill within the 100-year floodplain is limited to 2,700 cubic yards.

6. No fill, excess soil, or other material shall be placed in the 100-year floodplain, any wetland or surface water area not specifically authorized by this permit, its plans, and specifications.

7. The 2,800 cubic yards of compensating cut (excavations) for floodplain fill, as authorized by this permit, shall be completed prior to, or concurrently with, the placement of the fill. The compensating cut and fill areas shall be properly stabilized to prevent soil erosion and off site sedimentation in conformance with Part 91, Soil Erosion and Sedimentation Control, of the NREPA.

8. Fill shall not be placed to prevent surface water drainage across the site. Site runoff shall be directed to public or natural drainage ways and not unnaturally discharged onto adjacent properties.

9. The permittee is cautioned that grade changes resulting in increased runoff onto adjacent property is subject to civil damage litigation.

10. All fill/backfill shall consist of clean inert material that will not cause siltation nor contain soluble chemicals, organic matter, pollutants, or contaminants. All fill shall be contained in such a manner so as not to erode into any surface water, floodplain, or wetland. All raw areas associated with the permitted activity shall be stabilized with sod and/or seed and mulch, riprap, or other technically effective methods as necessary to prevent erosion.

11. Under Appendix G of the Michigan Building Code 2009, a local building permit is required for development located in flood hazard areas.

12. The project is located within a community that participates in the National Flood Insurance Program (NFIP). As a participant in the NFIP, the community must comply with the Michigan Building Code (including Appendix G and listed supporting materials); the Michigan Residential Code; and Title 44 of the Code of Federal Regulations, Part 60, Criteria for Land Management and Use. The community is also responsible to ensure that its floodplain maps and studies are maintained to show changes to flood elevations and flood delineations as described in 44 CFR, Part 65, Identification and Mapping of Special Hazard Areas.

13. The proposed fill and building are located within a 100-year floodplain included in the community's Flood Insurance Rate Map and/or flood elevation study. The permittee can apply to the Federal Emergency Management Agency (FEMA) for a Letter of Map Revision based on fill (LOMR-F) if engineered earthen fill is placed within the mapped 100-year floodplain. As part of the National Flood Insurance Program (NFIP) requirements the community must ensure that the requirements found in Section 65.5(a) of the FEMA's 44 CFR Part 65 are followed.

14. The permittee is responsible for acquiring all necessary easements or rights-of-way before commencing any work authorized by this permit. All construction operations relating to or part of this project shall be confined to the existing right-of-way limits or other acquired easements.

15. Authority granted by this permit does not waive permit or program requirements under Part 91, Soil Erosion and Sedimentation Control, of the NREPA, or the need to acquire applicable permits from the County Enforcing Agent (CEA), if applicable. To locate the Soil Erosion Program Administrator for your county visit www.mi.gov/soilerosion and look for Soil Erosion and Sedimentation Control Agencies under "SESC Info".

16. Authority granted by this permit does not waive any jurisdiction of the United States Army Corps of Engineers or the need for a federal permit, if required.

17. A storm water discharge permit may be required under the Federal Clean Water Act for construction activities that disturb one or more acres of land and discharge to surface waters. For sites over five (5) acres, the permit coverage may be obtained by a Part 91, Soil Erosion and Sedimentation Control (SESC) permit, or coverage as an Authorized Public Agency (APA), and filing a "Notice of Coverage" form to the MDEQ's Water Resource Division. For sites with disturbance from one acre up to five acres, storm water coverage is automatic once the SESC permit is obtained or if work is being conducted by an APA. These one to five acre sites are not required to apply for coverage, but are required to comply with storm water discharge permit requirements. Information on the storm water discharge permit is available from the Water Resource Division's Storm Water Permit Program at www.michigan.gov/soilerosion under the "Construction Strom Water Info".

18. The authority to conduct the activity as authorized by this permit is granted solely under the provisions of the governing act as identified above. This permit does not convey, provide, or otherwise imply approval of any other governing act, ordinance, or regulation, nor does it waive the permittee's obligation to acquire any local, county, state or federal approval or authorization, necessary to conduct the activity.

19. This permit is limited to authorizing the construction as specified above and carries with it no assurances or implications that associated lake, stream, wetland or floodplain areas can be developed and serviced by the structures authorized by this permit.

20. Any additional filling, grading, or construction within the 100-year floodplain will require a separate DEQ permit before starting the work.

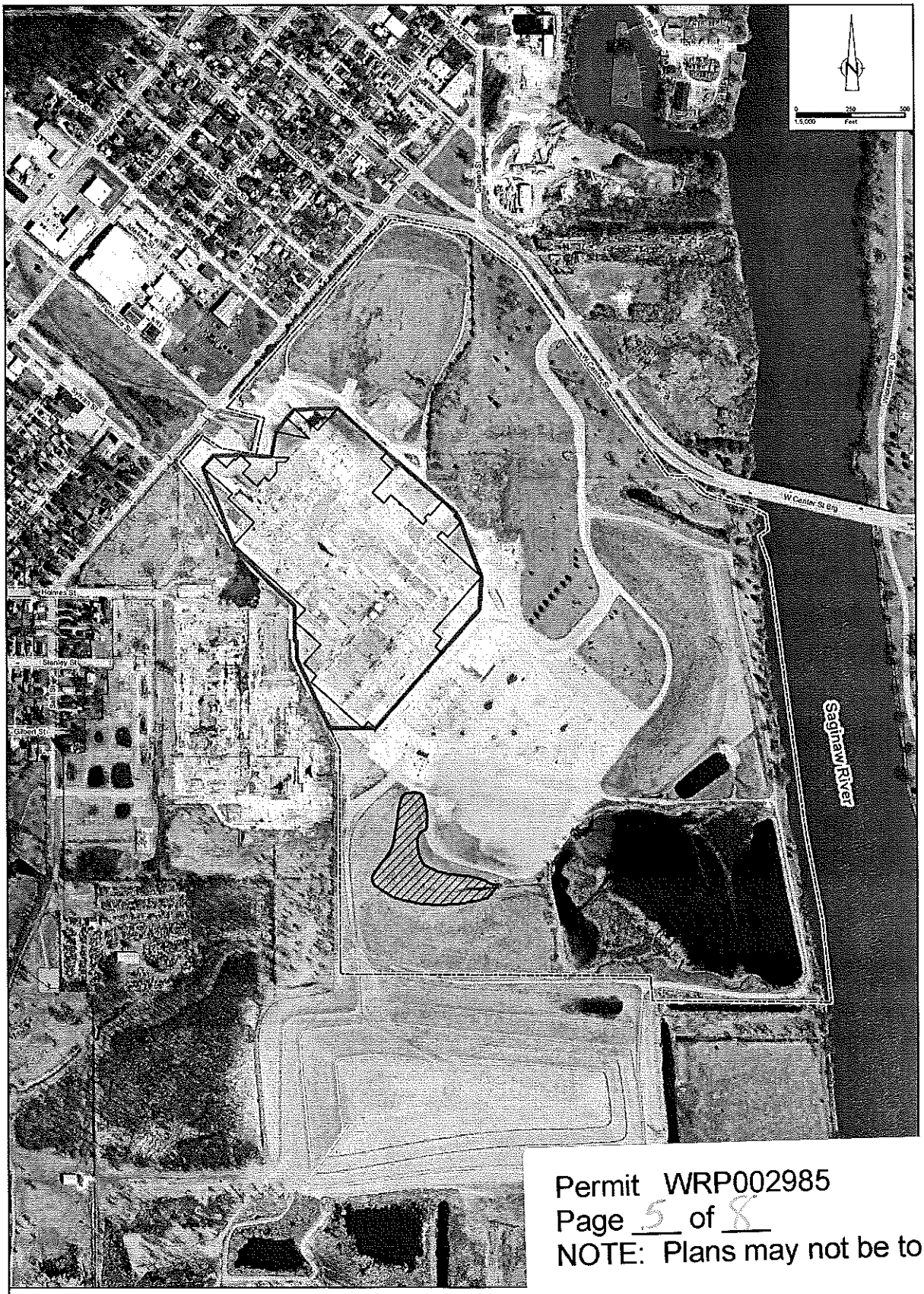
21. This permit is being issued for the maximum time allowed and no extensions of this permit will be granted. Initiation of the construction work authorized by this permit indicates the permittee's acceptance of this condition. The permit, when signed by the MDEQ, will be for a five-year period beginning at the date of issuance. If the project is not completed by the expiration date, a new permit must be sought.

22. The permittee is hereby notified that portions of the parcel, not covered by this permit, fall under the regulatory authority of Part 301, Inland Lakes and Streams, and/or Part 31, Floodplain Regulatory Authority/Water Resources Protection, and/or Part 303, Wetlands Protection, of the NREPA. A permit from the MDEQ's Water Resources Division may be required for certain regulated activities. Failure to comply with the requirements of the NREPA may subject the owner to compliance actions as provided by statute.

By: Joy I. Brooks

Joy I. Brooks, P.E.
District Floodplain Engineer
Water Resources Division
989-894-6226

cc: Saginaw CEA
City of Saginaw Building Official
City of Saginaw Clerk
City of Saginaw Floodplain Administrator
Mr. John-eric Pardys, GHD Services, Inc.



Permit WRP002985
Page 5 of 8
NOTE: Plans may not be to scale

Aerial Image: 2018 USGS High Resolution Orthoimagery for Saginaw County, MI
Streets: Processed TIGER 2010 Streets, U.S. Census Bureau.
Coordinate System: NAD 1983 StatePlane Michigan South FIPS 2113 Feet

LEGEND

- Approximate Limits of RACER Property
- Concrete Floor Slab Area To Be Covered With 1-ft of Material (~24.8 ac)
- Proposed Compensating Cut Area Below Floodplain (~2.64 ac)

figure 1

SITE VICINITY MAP
Saginaw, Michigan

SOURCE:
BBL DRAWING 27609B04 DATED 9/23/05, (10' CONTOURS).
BBL DRAWING 655952 RECEIVED OCTOBER 2006, (2' CONTOURS).

MICHIGAN SPC, NAD 83, NGVD29.

NO.	Revision	Date	Insd

SCALE VERIFICATION
THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

RACER - SAGINAW
MALLEABLE INDUSTRIAL LAND

SAGINAW, MICHIGAN

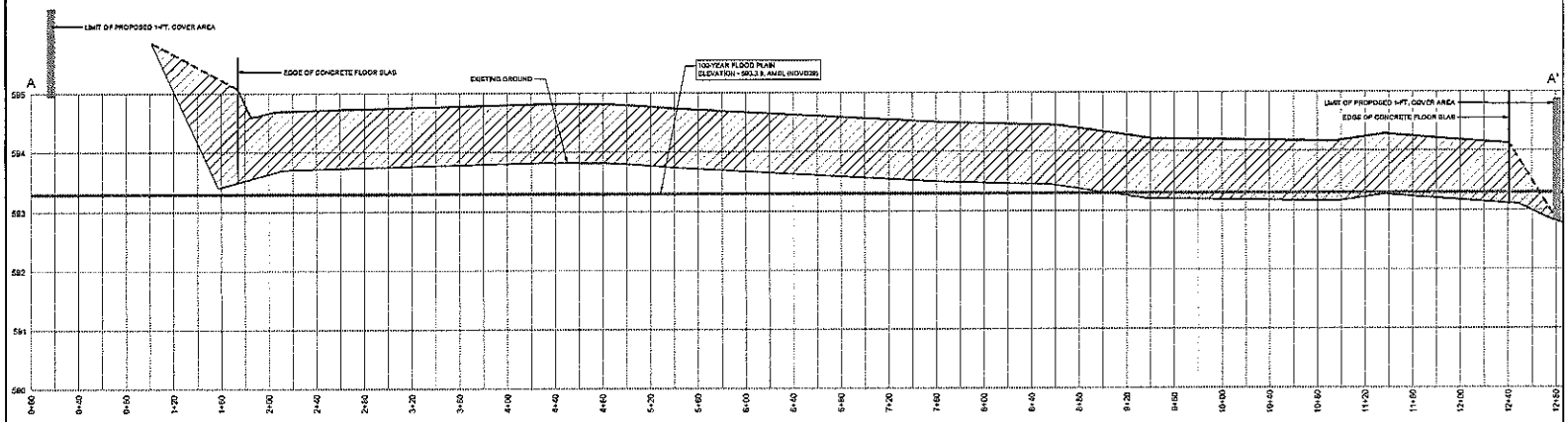
FLOOD ZONE MAP

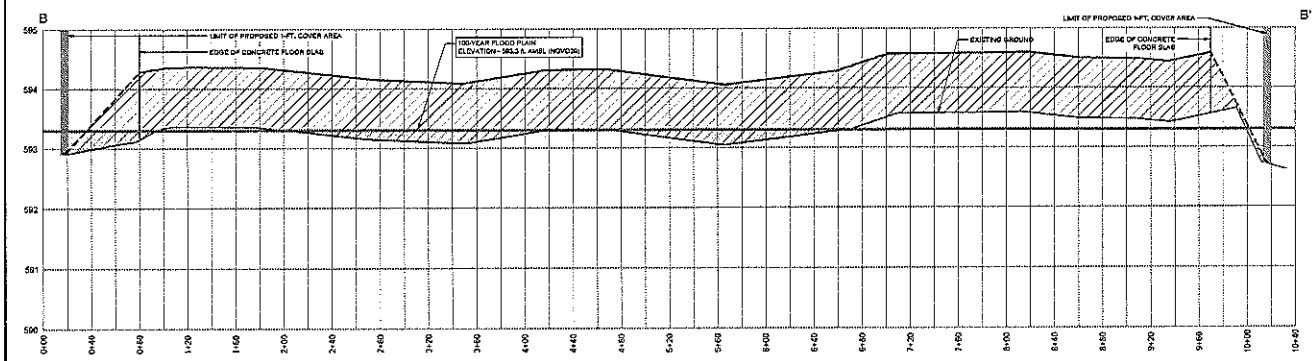
Source Reference:

Project Manager	Reviewed By	Date
M.T.	J.P.	JANUARY 2016
Scale: 1" = 150'	Project No.: 07878-00	Report No.: THIE001
		Drawing No.: figure 2

07878-00\THIE001\GN-TA\001 FEB 8, 2016

Permit WRP002985
Page 9 of 14
NOTE: Plans may not be to scale





SCALES:
1"=50' HORIZONTAL
1"=1' VERTICAL
50X VERTICAL EXAGGERATION

NO	Revision	Date	Initial

LEGEND

FILL TO BE PLACED BELOW FLOOD PLAIN ELEVATION OF 593.3 ft AMSL (NGVD 29)

1-FT OF FILL TO BE PLACED ABOVE CONCRETE FLOOR SLAB

FILL BEYOND CONCRETE FLOOR SLAB TO TRANSITION TO EXISTING GRADES (MAX. 2:1 SLOPE)

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

Status	Date	Initial

REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST

SAGINAW, MICHIGAN

CROSS-SECTIONS

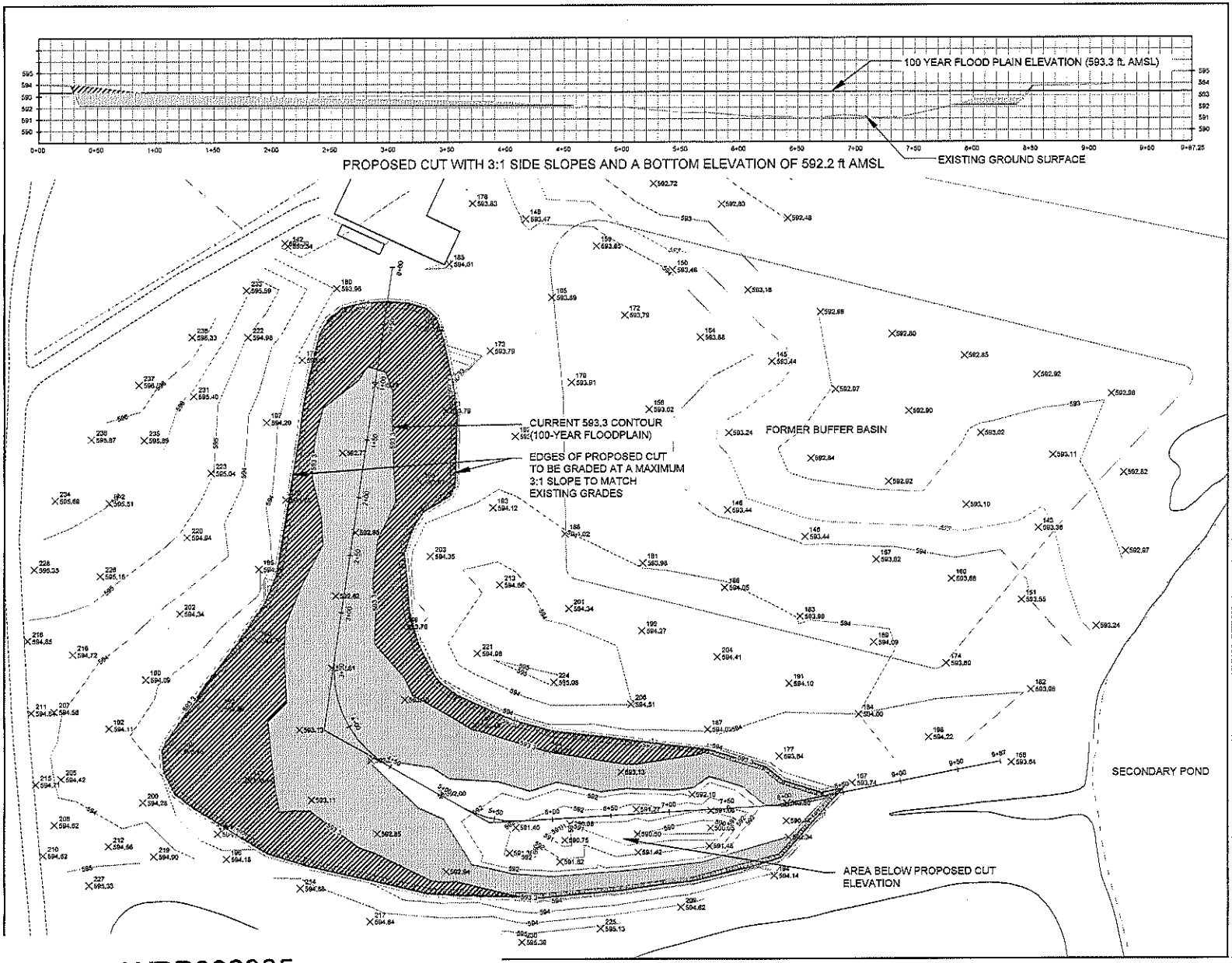
Source Reference:
07878-T01(03)-FRESD15(GN-WA)01

Project Manager:	Reviewed By:	Date:
MT	JEP	FEBRUARY 2016

Scale:	Project No.:	Report No.:	Drawing No.:
AS SHOWN	07878-00	THIE001	figure 4

07878-00(THIE001)GN-WA003 FEB 12, 2016

Permit WRP002985
Page 7 of 8
NOTE: Plans may not be to scale



LEGEND

PROPOSED CUT BELOW FLOOD PLAIN ELEVATION OF 593.3 ft. AMSL (NGVD 29)

PROPOSED CUT ABOVE FLOOD PLAIN ELEVATION OF 593.3 ft. AMSL (NGVD 29)

+ 595.618 SPIDER SURVEY POINT (DECEMBER 2015)

NOTES

- A COMPENSATING CUT APPROXIMATELY 3,360 CY WAS CALCULATED BY VARYING THE CUT DEPTH OF THE AREA IDENTIFIED BELOW THE 100-YR FLOOD PLAIN
- THE CUT DEPTH IS 592.2 FT AMSL

PARAMETER	UNIT	QUANTITY
AREA TO BE CUT BELOW FLOODPLAIN	ACRES	2.27
VOLUME TO BE CUT FROM BELOW FLOODPLAIN	CUBIC YARDS	2803
VOLUME TO BE CUT FROM ABOVE FLOODPLAIN	CUBIC YARDS	576
TOTAL CUT VOLUME	CUBIC YARDS	3380

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST

SAGINAW, MICHIGAN

COMPENSATING CUT AREA FOR FILL TO BE PLACED BELOW FLOOD PLAIN

Source Reference: 07878-T01\C3D-THIE001\GHA\HA001

Project Manager: MT	Reviewed By: JEP	Date: FEBRUARY 2016
Scale: 1"=40'	Project #: 07878	Report #: THIE001
		Drawing #: figure 5

Permit WRP002985
Page 8 of 8
NOTE: Plans may not be to scale

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER RESOURCES DIVISION
PERMIT

ISSUED TO:

Mr. Dave Favero
RACER Properties LLC
500 Woodward Avenue, Suite 2650
Saginaw, Michigan 48601

Permit No.	WRP004925
Issued	October 27, 2016
Extended	
Revised	
Expires	October 27, 2021

This permit is being issued by the Michigan Department of Environmental Quality (MDEQ) under the provisions of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA), and specifically:

- ☐ Part 301, Inland Lakes and Streams
- ☐ Part 315, Dam Safety
- ☐ Part 325, Great Lakes Submerged Lands
- ☐ Part 323, Shorelands Protection and Management
- ☐ Part 303, Wetlands Protection
- ☐ Part 353, Sand Dunes Protection and Management
- ☒ Part 31, Floodplain/Water Resources Protection

Permission is hereby granted, based on permittee assurance of adherence to State of Michigan requirements and permit conditions, to:

Permitted Activity:

Place up to 150 cubic yards of clean fill within the 100-year floodplain of the Saginaw River.

All work must be completed in accordance with the attached plans.

Water Course Affected: Saginaw River
Property Location: Saginaw County, Buena Vista Township, Section 08
Town/Range 12N/05E Property Tax No. 10-12-5-08-1001-001

Authority granted by this permit is subject to the following limitations:

A. Initiation of any work on the permitted project confirms the permittee's acceptance and agreement to comply with all terms and conditions of this permit.
B. The permittee, in exercising the authority granted by this permit, shall not cause unlawful pollution as defined by Part 31, Water Resources Protection, of the NREPA.
C. This permit shall be kept at the site of the work and available for inspection at all times during the duration of the project or until its date of expiration.
D. All work shall be completed in accordance with the approved plans and specifications submitted with the application and/or plans and specifications attached to this permit.
E. No attempt shall be made by the permittee to forbid the full and free use by the public of public waters at or adjacent to the structure or work approved.
F. It is made a requirement of this permit that the permittee give notice to public utilities in accordance with Act 53 of the Public Act of 1974 and comply with each of the requirements of that Act.
G. This permit does not convey property rights in either real estate or material, nor does it authorize any injury to private property or invasion of public or private rights, nor does it waive the necessity of seeking federal assent, all local permits, or complying with other state statutes.
H. This permit does not prejudice or limit the right of a riparian owner or other person to institute proceedings in any circuit court of this state when necessary to protect his rights.
I. Permittee shall notify the MDEQ within one week after the completion of the activity authorized by this permit, by completing and forwarding the attached preaddressed postcard to the office addressed thereon.
J. This permit shall not be assigned or transferred without the written approval of the MDEQ.

K. Failure to comply with conditions of this permit may subject the permittee to revocation of permit and criminal and/or civil action as cited by the specific state act, federal act, and/or rule under which this permit is granted.
L. All dredged or excavated materials shall be disposed of in an upland site (outside of floodplains, unless exempt under Part 31, and wetland).
M. In issuing this permit, the MDEQ has relied on the information and data that the permittee has provided in connection with the submitted application for permit. If, subsequent to the issuance of a permit, such information and data prove to be false, incomplete, or inaccurate, the MDEQ may modify, revoke, or suspend the permit, in whole or in part, in accordance with the new information.
N. The permittee shall indemnify and hold harmless the State of Michigan and its departments, agencies, officials, employees, agents and representatives for any and all claims or causes of action arising from acts or omissions of the permittee or employees, agents, or representatives of the permittee undertaken in connection with this permit. This permit shall not be construed as an indemnity by the State of Michigan for the benefit of the permittee or any other person.
O. Noncompliance with these terms and conditions and/or the initiation of other regulated activities not specifically authorized shall be cause for the modification, suspension, or revocation of this permit, in whole or in part. Further, the MDEQ may initiate criminal and/or civil proceedings as may be deemed necessary to correct project deficiencies, protect natural resource values, and secure compliance with statutes.
P. If any change or deviation from the permitted activity becomes necessary, the permittee shall request, in writing, a revision of the permitted activity from the MDEQ. Such revision request shall include complete documentation supporting the modification and revised plans detailing the proposed modification. Proposed modifications must be approved, in writing, by the MDEQ prior to being implemented.
Q. This permit may be transferred to another person upon written approval of the MDEQ. The permittee must submit a written request to the MDEQ to transfer the permit to the new owner. The new owner must also submit a written request to the MDEQ to accept transfer. The new owner must agree, in writing, to accept all conditions of the permit. A single letter signed by both parties which includes all the above information may be provided to the MDEQ. The MDEQ will review the request and if approved, will provide written notification to the new owner.
R. Prior to initiating permitted construction, the permittee is required to provide a copy of the permit to the contractor(s) for review. The property owner, contractor(s), and any agent involved in exercising the permit are held responsible to ensure that the project is constructed in accordance with all drawings and specifications. The contractor is required to provide a copy of the permit to all subcontractors doing work authorized by the permit.
S. Construction must be undertaken and completed during the dry period of the wetland. If the area does not dry out, construction shall be done on equipment mats to prevent compaction of the soil.
T. Authority granted by this permit does not waive permit requirements under Part 91, Soil Erosion and Sedimentation Control, of the NREPA, or the need to acquire applicable permits from the County Enforcing Agent.
U. Authority granted by this permit does not waive permit requirements under the authority of Part 305, Natural Rivers, of the NREPA. A Natural Rivers Zoning Permit may be required for construction, land alteration, streambank stabilization, or vegetation removal along or near a natural river.
V. The permittee is cautioned that grade changes resulting in increased runoff onto adjacent property is subject to civil damage litigation.
W. Unless specifically stated in this permit, construction pads, haul roads, temporary structures, or other structural appurtenances to be placed in a wetland or on bottomland of the waterbody are not authorized and shall not be constructed unless authorized by a separate permit or permit revision granted in accordance with the applicable law.
X. For projects with potential impacts to fish spawning or migration, no work shall occur within fish spawning or migration timelines (i.e., windows) unless otherwise approved in writing by the MDNR, Fisheries Division.
Y. Work to be done under authority of this permit is further subject to the following special instructions and specifications:

1. The design flood or 1% annual chance (100-year) floodplain elevation at this location on the Saginaw River is 589.3 feet NGVD29.

2. Fill within the 100-year floodplain is limited to 150 cubic yards.

3. Fill shall not be placed to prevent surface water drainage across the site. Site runoff shall be directed to public or natural drainage ways and not unnaturally discharged onto adjacent properties.

4. The permittee is cautioned that grade changes resulting in increased runoff onto adjacent property is subject to civil damage litigation.

5. All fill/backfill shall consist of clean inert material that will not cause siltation nor contain soluble chemicals, organic matter, pollutants, or contaminants. All fill shall be contained in such a manner so as not to erode into any surface water, floodplain, or wetland. All raw areas associated with the permitted activity shall be stabilized with sod and/or seed and mulch, riprap, or other technically effective methods as necessary to prevent erosion.

6. All raw areas in uplands resulting from the permitted construction activity shall be effectively stabilized with sod and/or seed and mulch (or other technology specified by this permit or project plans) in a sufficient quantity and manner to prevent erosion and any potential siltation to surface waters, wetlands, and/or floodplains. Temporary stabilization measures shall be installed before or upon

commencement of the permitted activity, and shall be maintained until permanent measures are in place. Permanent measures shall be in place within five (5) days of achieving final grade.

7. No fill, excess soil, or other material shall be placed in the 100-year floodplain, any wetland or surface water area not specifically authorized by this permit, its plans, and specifications.

8. Unless specifically stated under the "Permitted Activity" of this permit, construction pads, haul roads, temporary structures, or other structural appurtenances to be placed in a floodplain, wetland or on bottomland of the waterbody are not authorized and shall not be constructed unless authorized by a separate permit or permit revision granted in accordance with the applicable law.

9. Under Appendix G of the Michigan Building Code 2009, a local building permit is required for development located in flood hazard areas.

10. The project is located within a community that participates in the National Flood Insurance Program (NFIP). As a participant in the NFIP, the community must comply with the Michigan Building Code (including Appendix G and listed supporting materials); the Michigan Residential Code; and Title 44 of the Code of Federal Regulations, Part 60, Criteria for Land Management and Use. The community is also responsible to ensure that its floodplain maps and studies are maintained to show changes to flood elevations and flood delineations as described in 44 CFR, Part 65, Identification and Mapping of Special Hazard Areas.

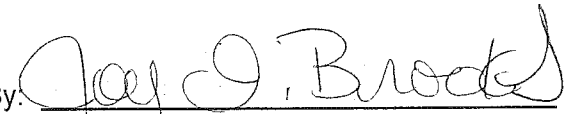
11. The permittee is responsible for acquiring all necessary easements or rights-of-way before commencing any work authorized by this permit. All construction operations relating to or part of this project shall be confined to the existing right-of-way limits or other acquired easements.

12. The authority to conduct the activity as authorized by this permit is granted solely under the provisions of the governing act as identified above. This permit does not convey, provide, or otherwise imply approval of any other governing act, ordinance, or regulation, nor does it waive the permittee's obligation to acquire any local, county, state or federal approval or authorization, necessary to conduct the activity.

13. This permit is limited to authorizing the construction as specified above and carries with it no assurances or implications that associated lake, stream, wetland or floodplain areas can be developed and serviced by the structures authorized by this permit.

14. This permit is being issued for the maximum time allowed and no extensions of this permit will be granted. Initiation of the construction work authorized by this permit indicates the permittee's acceptance of this condition. The permit, when signed by the MDEQ, will be for a five-year period beginning at the date of issuance. If the project is not completed by the expiration date, a new permit must be sought.

15. The permittee is hereby notified that portions of the parcel, not covered by this permit, fall under the regulatory authority of Part 301, Inland Lakes and Streams, and/or Part 31, Floodplain Regulatory Authority/Water Resources Protection, and/or Part 303, Wetlands Protection, of the NREPA. A permit from the MDEQ's Water Resources Division may be required for certain regulated activities. Failure to comply with the requirements of the NREPA may subject the owner to compliance actions as provided by statute.

By: 

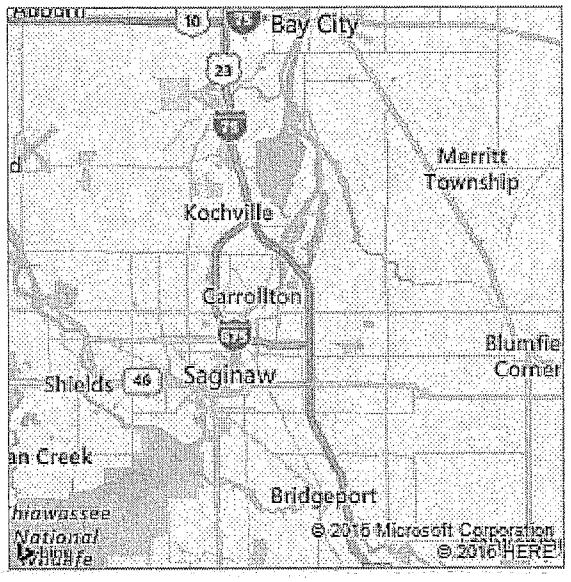
Joy I. Brooks, P.E.
Water Resources Division
989-894-6226

cc: Saginaw CEA
Buena Vista Township Clerk
Buena Vista Township Building Official/Floodplain Administrator
Mr. John-eric Pardys, GHD Services, Inc.

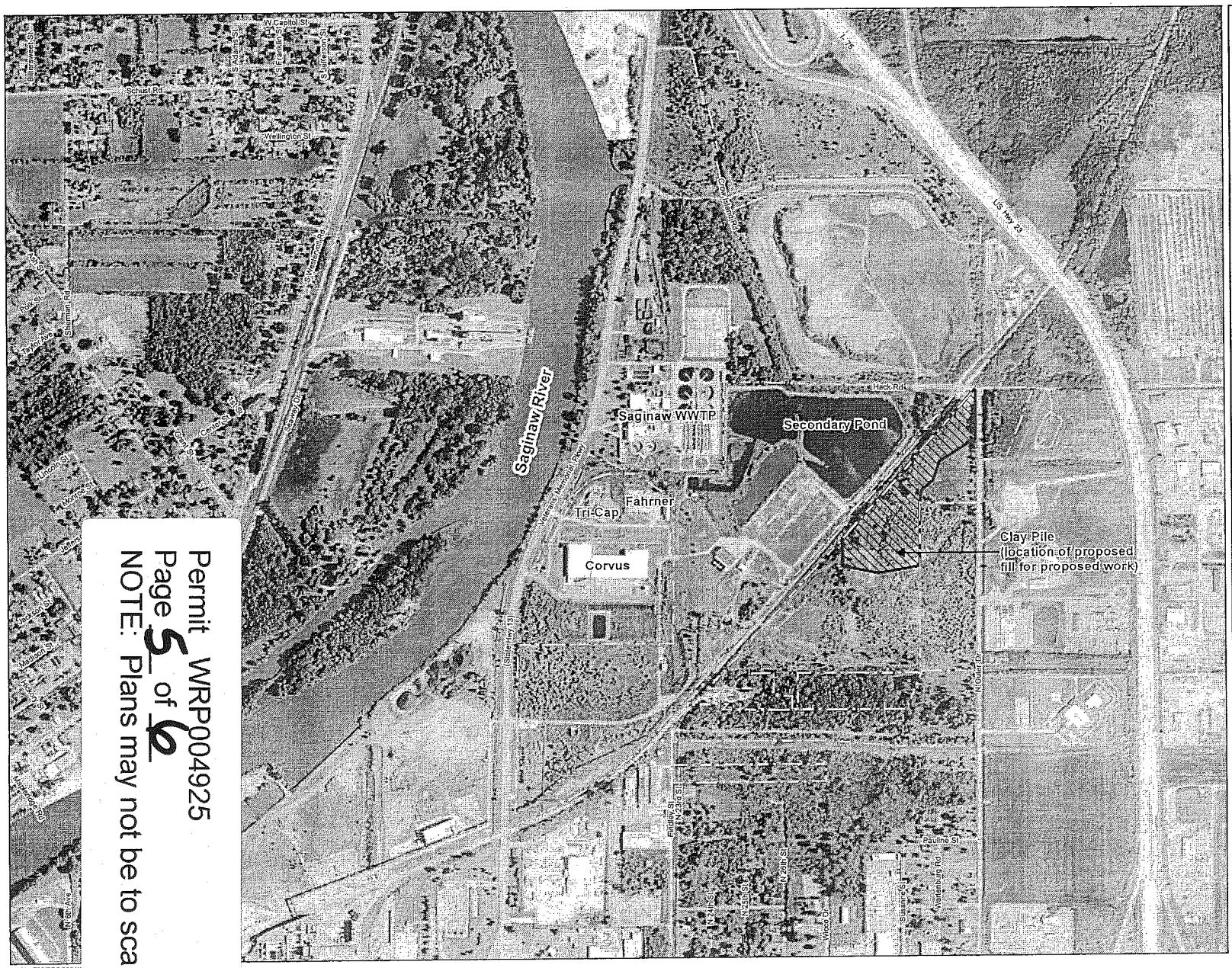
bing Maps

My Notes

Permit WRP004925
Page 4 of 6
NOTE: Plans may not be to scale







0 500 1,000 1,500 Feet

LEGEND

- APPROXIMATE LIMITS OF RACER PROPERTY
- PROPOSED SITE WORK (CONSTRUCT ROADS TO ACCESS CLAY PILE AND REMOVE CLAY)

Coordinate System
MICHIGAN STATE PLANE SOUTH, NAD 83 USFIG (M) ERMITTIAL FEET, NAVD 88

REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE (RACER)
SAGINAW NODULAR INDUSTRIAL LAND

SAGINAW, MICHIGAN

SITE VICINITY MAP

GHD

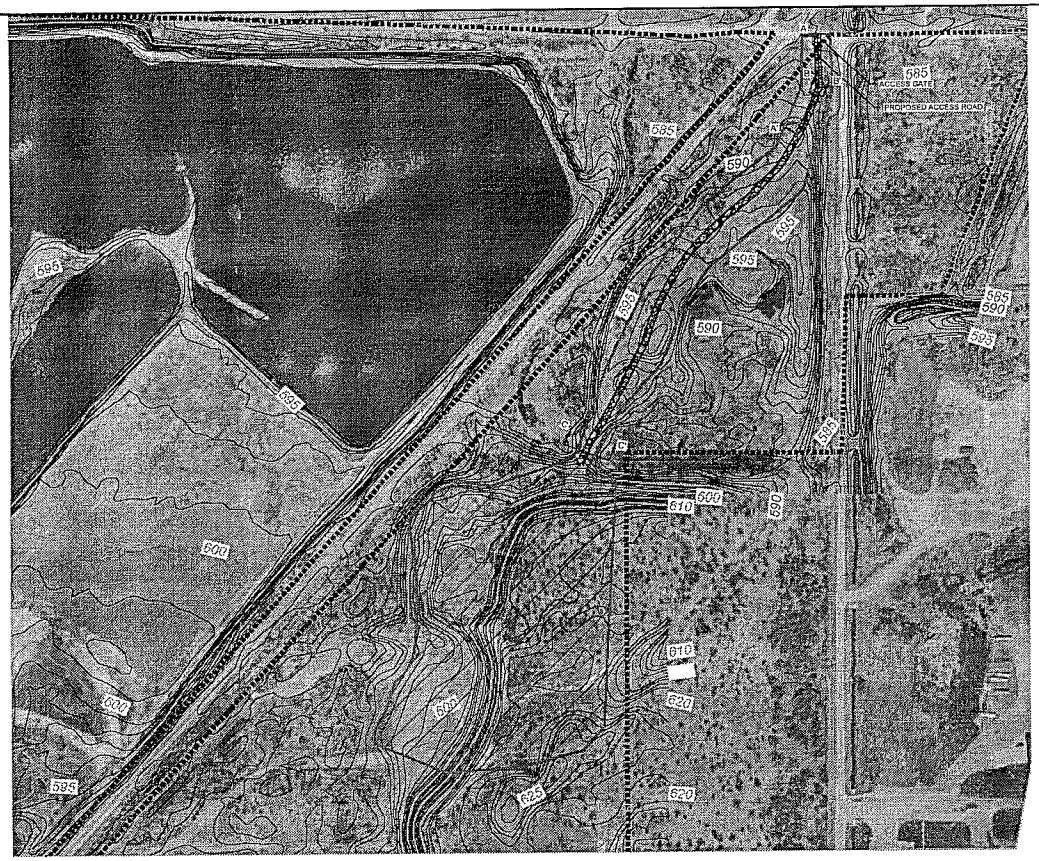
Source Reference
IMAGERY - 2014 SAGINAW COUNTY HAIP PROVIDED BY USDA
STREETS - PROCESSED TIGER 2010 STREETS, U.S. CENSUS BUREAU

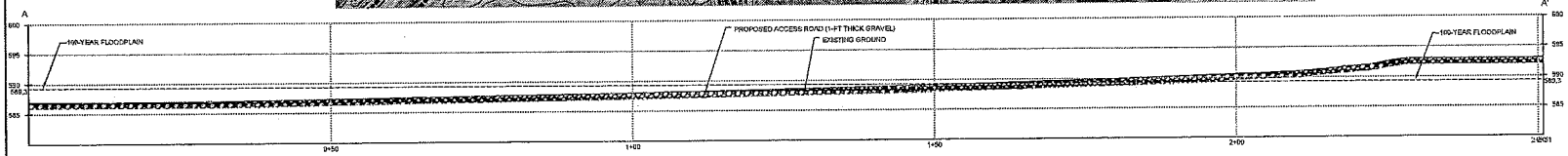
Project Manager	Reviewed By	Date	
M.T.	J.E.P.	JULY 2016	
Scale	Project No.	Memo No.	Drawing No.
1:10,000	58502-T02	BROO001	1

58502-T02(BROO001)M

Permit WRP004925
Page 5 of 6
NOTE: Plans may not be to scale

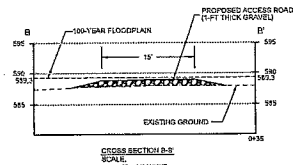
Permit WRP004925
Page 6 of 6
NOTE: Plans may not be to scale



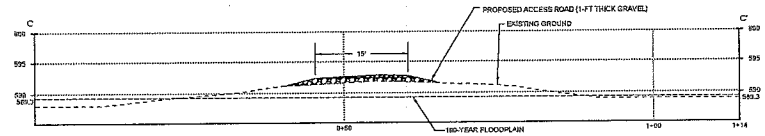


CROSS SECTION A-A'
SCALE:
1" = 10' HORIZ.
1" = 10' VERT.

FILL PROPOSED BELOW 100-YEAR FLOODPLAIN ELEVATION



CROSS SECTION B-B'
SCALE:
1" = 10' HORIZ.
1" = 10' VERT.



CROSS SECTION C-C'
SCALE:
1" = 10' HORIZ.
1" = 10' VERT.

NO.	Revision	Date	Initial

LEGEND

- CONTOUR LINES - MAJOR
- CONTOUR LINES - MINOR
- ESTIMATED FLOODPLAIN CONTOUR (100-YEAR FLOODPLAIN ELEVATION IS 589.3 FT AMSL)
- APPROXIMATELY 40,000 CUBIC YARDS OF CLAY TO BE REMOVED FROM THIS AREA (ABOVE 100-YEAR FLOODPLAIN ELEVATION)
- APPROXIMATE AREA OF PROPOSED WORK
- GRAVEL
- FILL PROPOSED BELOW 100-YEAR FLOODPLAIN
- CROSS SECTION LOCATION

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

Status	Date	Initial

REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE (RACER)

NODULAR INDUSTRIAL LAND SAGINAW, MICHIGAN

PLAN AND PROFILE

Cover Reference:

Project Manager:	Reviewed By:	Date:
J.E.P.	J.E.P.	AUGUST 2016

Scale:	Project No:	Report No:	Drawing No:
AS SHOWN	058502-T02	BRO0001	2

058502-T02(BRO0001)GN-DE001 AUG 9/2016

City of Saginaw

ENGINEERING DEPARTMENT
1315 S Washington Ave
Saginaw, MI 48601
(989) 759-1410

PFDPL16-001

Issued: 09/23/2016
Expires:

Flood Plain

09/23/2016

LOCATION	OWNER	CONTRACTOR
77 W CENTER ST 19 2231 00000 **M-2**	RACER PROPERTIES LLC 500 WOODWARD AVE STE 2650 DETROIT MI 48226 **Phone:** **Fax:**	G H D 651 Colby Drive, waterloo, Ontario **Phone:** (519) 884 0510 **Fax:**

Special Notes and Comments
Malleable Iron sitr work

1. Project Description - see attached

2. Application Signed City Engineer - yes

3. Application Signed Chief Inspector - yes

4. Final Approved Plans - processing

5. Base Flood Elevation - na 100 yr flood

6. Lowest Flood Elevation - na

7. State Permit Obtained/In Process - In process

8. Federal Permit Obtained/In Process - na

SEE ATTACHED APPLICATION FOR ALL INFORMATION AND SIGNATURES

UPON COMPLETION OF THE PROJECT ELEVATION CERTIFICATE(S) MUST BE PROVIDED BY THE APPLICANT IN ORDER TO RECEIVE AN OCCUPANCY PERMIT.

PERMISSION IS HEREBY GRANTED TO WORK WITHIN THE FLOOD PLAIN - ONLY AFTER ALL STATE/FEDERAL PERMITS HAVE BEEN APPROVED

Permit Item	Work Type	Fee Basis	Item Total

Fee Total:	$0.00
Amount Paid:	$0.00
Balance Due:	$0.00

FLOOD PLAIN PERMIT

ALL SECTIONS OF THE CITY OF SAGINAW - FLOODPLAIN DISTRICT MUST BE FOLLOWED (153.540 TO 153.556)

HOLD HARMLESS AND INDEMNITY

In consideration of the issuance of this permit, undersigned agrees to hold harmless and indemnify the City of Saginaw from all claims, damages, expenses and suits of every kind which may arise by reason of the issuance of this permit and operations performed and maintained there under.

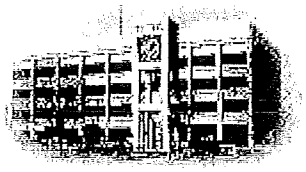
Said applicant agrees to maintain and keep all construction property safeguarded, barricaded and lighted, and further that said applicant be solely responsible of all damages, accidents or loss of life, limb or property, and shall save the City of Saginaw harmless from any and all causes whatsoever and to the fullest extent.

Date: _____ Signature: _____

Printed Name: _____

COUNTY OF SAGINAW

BRIAN J. WENDLING
PUBLIC WORKS COMMISSIONER
Governmental Center
111 S. Michigan Avenue
Saginaw, Michigan 48602-2086
Phone 989-790-5258 • FAX 989-790-5259



SOIL EROSION AND SEDIMENTATION CONTROL PERMIT

(Issued under the authority of Part 91, Soil Erosion and Sedimentation Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended)

Permittee: Revitalizing Auto Communities
Address: Environmental Response Trust-Racer
500 Woodward Ave, Suite 2650
Detroit, MI 48226
DFavero@racertrust.com

Permit No: 3769
Issued: 9-16-16
Expires: 9-16-17
Extended:
Phone: 734-879-9525

On-Site Responsible Person:
Tom Holdeman; THoldeman@jssmi.com
Phone: 989-671-3318

Company: Job Site Services, Inc
Address: 4395 Wilder Rd
Bay City, MI 48706

Permitted Activity:

All demolition, clearing, excavation, above ground and underground construction for removal of PCB impacted concrete & soil, concrete restoration, earth movement, & soil cover installation over existing slab, restore with topsoil& hydroseed, with appurtenances as shown on the plans prepared by GHD. Approx. 27.0 acre(s) of disturbance.

Project Location: 77 West Center St 19-2-23-1000

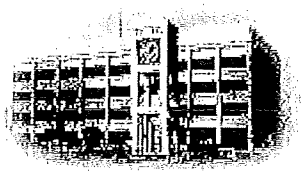
Township: City of Saginaw Section: Parcel#: 19-2-23-2000

Permit Conditions:

1. The permitted activity shall be completed in accordance with the approved plans and specifications, and the attached general and specific conditions.
2. This permit does not waive the necessity for obtaining all other required federal, state, or local permits.
3. Permittee shall notify the permitting agency within one week after completing the permitted activity or one week prior to the permit expiration date, whichever comes first.

COUNTY OF SAGINAW

BRIAN J. WENDLING
PUBLIC WORKS COMMISSIONER
Governmental Center
111 S. Michigan Avenue
Saginaw, Michigan 48602-2086
Phone 989-790-5258 • FAX 989-790-5259



SOIL EROSION AND SEDIMENTATION CONTROL PERMIT

(Issued under the authority of Part 91, Soil Erosion and Sedimentation Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended)

Permittee: Revitalizing Auto Communities
Address: Environmental Response Trust-Racer
500 Woodward Ave, Suite 2650
Detroit, MI 48226
DFavero@racertrust.com

Permit No: 3770
Issued: 9-16-16
Expires: 9-16-17
Extended:
Phone: 734-879-9525

On-Site Responsible Person:
Tom Holdeman; THoldeman@jssmi.com
Phone: 989-671-3318

Company: Job Site Services, Inc
Address: 4395 Wilder Rd
Bay City, MI 48706

Permitted Activity:

All demolition, clearing, excavation, above ground and underground construction for excavation of stockpiled soils & transportation to 77 West Center St, Saginaw, restored with topsoil & hydroseed, with appurtenances as shown on the plans prepared by GHD. Approx. 5.0 acre(s) of disturbance.

Project Location: Hack Rd & North Outer Drive

Township: Buena Vista Twp Section: 08 Parcel#: 10-12-5-08-1001-001

Permit Conditions:

1. The permitted activity shall be completed in accordance with the approved plans and specifications, and the attached general and specific conditions.
2. This permit does not waive the necessity for obtaining all other required federal, state, or local permits.
3. Permittee shall notify the permitting agency within one week after completing the permitted activity or one week prior to the permit expiration date, whichever comes first.

Appendix E
Photographic Log of PCB Impacted Removal Activities



Photo 1 - Removal of concrete floor slab – Area 3. Date – 09/26/2016

Site Photographs



Photo 2 - Removal of concrete floor slab – Area 16. Date – 09/26/2016



Photo 3 - Removal of concrete floor slab – Area 4. Date – 09/26/2016



Photo 4 - Removal of concrete floor slab – Area 11. Date – 09/26/2016



Photo 5 - Removal of concrete floor slab and initial excavation of soil in the I27.7 Manhole Area. Photograph taken on the southeast side of the excavation, looking northwest. Date – 09/29/2016



Photo 6 - Removal of concrete floor slab and initial excavation of soil in the I27.7 Manhole Area. Photograph taken on the northeast side of the excavation, looking south-west. Date – 09/29/2016



Photo 7 - Removal of concrete floor slab and initial excavation of soil in the I27.7 Manhole Area. Photograph taken on the southwest side of the excavation, looking northeast. Date – 09/29/2016



Photo 8 - Removal of concrete floor slab and initial excavation of soil in the I27.7 Manhole Area. Photograph taken on the south side of the excavation, looking north. Date - 09/29/2016



Photo 9 - Removal of majority of impacted soil. Photograph taken on the northeast side of the excavation, looking southwest. Date – 10/04/2016



Photo 10 - Removal of additional impacted soil. Photograph taken on the west side of the excavation, looking northeast. Date – 10/06/2016



Photo 11 - Final Removal of impacted soil. Photograph taken on the northeast side of the excavation, looking southwest. Date – 10/10/2016



Photo 12 - Post-excavation floor verification sampling locations. Photograph taken on the southwest side of the excavation, looking northeast. Date – 01/31/2017



Photo 13 - Pea gravel placed prior to second round of post-excavation floor verification sampling. Photograph taken on the southwest side of the excavation, looking northeast. Date – 02/03/2017

Appendix F
Waste Disposal Manifests

US ecology

49350 North I-94 Service Drive, Belleville, MI 48111
P 800.592.5489 F 800.592.5329

JANUARY 25, 2017

Manifest Processing
Waste Tracking & Data Management Unit
DEQ - ERMD
PO Box 30038
Lansing MI 48909-7538

To Whom It May Concern:

Please note the corrections regarding the following:

Manifest Number(s):	See Attachment
Generator Name:	Racer Trust
Address:	77 West Center Street Saginaw, MI 48605

Please note the following corrections: Section(s) 1 & 5 have been updated at the customers request.

Please contact me if you have any questions.

Sincerely,

Tanya Cowgar
Site II Receiving Supervisor
Phone (734) 699-6229
Fax (734) 699-1532

Manifest Number
016268422JJK
016268421JJK
016268431JJK
016268423JJK
016268424JJK
016268425JJK
016268427JJK
016268426JJK
016582835JJK
016268428JJK
016582833JJK
016268429JJK
016268430JJK
016268406JJK
010241989JJK
016268415JJK
016268416JJK
016268417JJK
010241993JJK
010241990JJK
010241988JJK
016268418JJK
016268419JJK
016582836JJK

Transport and Disposal of TSCA Soil
Waste Manifests

SPC 158000

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	MID 005 356 ~~698~~ 696	1	13523233500	016268423 JJK

GENERATOR

5. Generator's Name and Mailing Address: ~~2930 ECORSE ROAD~~ RACER TRUST, 500 Woodward Ave Suite 2650, ~~YPSILANTI, MI 48198~~ Detroit, MI 48226
Generator's Phone:

Generator's Site Address (if different than mailing address): 77 WEST CENTER, SAGINAW, MI 48605

6. Transporter 1 Company Name: S & C Transport — U.S. EPA ID Number: MIK 126 399 684

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFI, 49350 N I-94 SERVICE DRIVE, BELLEVILLE, MI 48111 — U.S. EPA ID Number: MID 048 090 633
Facility's Phone: (800) 592-5489

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. ~~POLYCHLORINATED BIPHENYLS, SOLID~~ UN2422, Polychlorinated Biphenyls, solid, 9, PG II	1	DT	45454	K	[redacted]
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G162593WDI / SOIL AND DEBRIS

CONTAINER START DATE: 9/29/16

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Steve Hoevemeyer on behalf of Racer Trust — Signature: [signature] — Month 9 Day 29 Year 16

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Todd Schaffer — Signature: [signature] — Month 9 Day 29 Year 16

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
OK to correct section 13.5 per Claire Wood @ USE-CO 10-17-17 JJSMX BP 10/3/16
Actual weight 37836 kgs per Tom Holderman
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Chris Grissom — Signature: [signature] — Month 9 Day 29 Year 16

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR STATE (IF REQUIRED)

144

138,640

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
MID 005 356 ~~698~~ 696	1	8552323500	016268424 JJK

GENERATOR

5. Generator's Name and Mailing Address: ~~2930 EGORSE ROAD~~ RACER TRUST, 500 Woodward Ave Suite 2650, Detroit, MI 48226
~~YPSILANTI, MI 48198~~
Generator's Phone:

Generator's Site Address (if different than mailing address): 77 WEST CENTER, SAGINAW, MI 48605

6. Transporter 1 Company Name: S & C Transport — U.S. EPA ID Number: MIK 126 399 684

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFI
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. ~~POLYCHLORINATED BIPHENYLS, SOLID~~ UN3432, Polychlorinated biphenyls, solid, 9, PG II	1	DT	45454	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G162593WDI / SOIL AND DEBRIS
CONTAINER START DATE: 9/29/16

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Steve Hawemeyer on behalf of RacerTrust — Signature: [signature] — Month 9 Day 29 Year 16

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: GEORGE WIEGAND — Signature: [signature] — Month 9 Day 29 Year 16

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
ok to correct Section 14 & 15 per Claire Wood @ USE-CS 1-17-17
Actual weight 39036lbs ok per Tim Haldeman/ESMT BB — Manifest Reference Number: 10131116

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Jonathan Evans — Signature: [signature] — Month 9 Day 29 Year 16

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR STATE (IF REQUIRED)

SQC 119 304/30 B. 14620

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	MID 005 356 ~~698~~ 696	1	3523233500	016268425 JJK

GENERATOR

5. Generator's Name and Mailing Address: ~~RACER TRUST 2930 ECORSE ROAD YPSILANTI, MI 48198~~ RACER TRUST 500 Woodward Ave Suite 2650 Detroit, MI 48226

Generator's Site Address (if different than mailing address): 77 WEST CENTER SAGINAW, MI 48605

Generator's Phone:

6. Transporter 1 Company Name: S & C Transport — U.S. EPA ID Number: MIK 126 399 684

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFI — 49350 N I-94 SERVICE DRIVE BELLEVILLE, MI 48111 — Facility's Phone: (800) 592-5489 — U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. ~~POLYCHLORINATED BIPHENYLS, SOLID~~ UN3432, Polychlorinated Biphenyls, solid, 9, PG II	1	DT	45454	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G162593WDI / SOIL AND DEBRIS

CONTAINER START DATE: 9/29/16

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Steven Hoeppner on behalf of RacerTrust — Signature — Month 9 Day 29 Year 16

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Brian Horta — Signature — Month 09 Day 29 Year 16

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Ok to correct per Claire Wood @ USE-CO 1-17-17
Actual Weight 46045 K ok per Tom Holdiman w/ JSSMI — Manifest Reference Number: BB1013116

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Chris Gibson — Signature — Month 9 Day 30 Year 16

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR STATE (IF REQUIRED)

143 - 154680

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	MID 005 356 ~~698~~ 696	1	13523233500	016268427 JJK

5. Generator's Name and Mailing Address: ~~2930 ECORSE ROAD~~ RACER TRUST 500 Woodward Ave Suite 2650 Detroit, MI 48226
~~YPSILANTI, MI 48198~~
Generator's Phone:

Generator's Site Address (if different than mailing address): 77 WEST CENTER SAGINAW, MI 48605

6. Transporter 1 Company Name: S & C Transport #143 — U.S. EPA ID Number: MIK 126 399 684

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFI
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. ~~POLYCHLORINATED BIPHENYLS, SOLID~~ UN3432, Polychlorinated Biphenyls, solid, 9, PG II	1	DT	45454	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G162583WDI / SOIL AND DEBRIS
CONTAINER START DATE: 10/12/16

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Steven S. Heeringa on behalf of RacerTrust — Signature: [signature] — Month 10 Day 12 Year 16

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Roger H — Signature: [signature] — Month 10 Day 12 Year 16
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
OK to correct per Claire Wood @ USE - CO 1-17-17 Manifest Reference Number:
18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: [illegible] — Signature: [signature] — Month 10 Day 12 Year 16

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR STATE (IF REQUIRED)

143-153320

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	MID 005 356 ~~698~~ 696	1	13523233500	016268428 JJK

GENERATOR

5. Generator's Name and Mailing Address: ~~2930 ECORSE ROAD~~ RACER TRUST, 500 Woodward Ave Suite 2650, ~~YPSILANTI, MI 48198~~ Detroit, MI 48226
Generator's Phone:

Generator's Site Address (if different than mailing address): 77 WEST CENTER, SAGINAW, MI 48605

6. Transporter 1 Company Name: S & C Transport 143 — U.S. EPA ID Number: MIK 126 399 684

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFI, 49350 N I-94 SERVICE DRIVE, BELLEVILLE, MI 48111 — U.S. EPA ID Number: MID 048 090 633
Facility's Phone: (800) 592-5489

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. ~~POLYCHLORINATED BIPHENYLS, SOLID~~ UN 3432, Polychlorinated Biphenyls, solid, 9, PG II	1	DT	45454	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G162583WDI / SOIL AND DEBRIS

CONTAINER START DATE: 10/12/16

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Steven S. Hammerschmidt on behalf of Racer Trust — Signature: [signature] — Month/Day/Year: 10/12/16

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Roger H — Signature: [signature] — Month/Day/Year: 10/12/16

Transporter 2 Printed/Typed Name — Signature — Month/Day/Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

OK to correct section 15 per Claire Wood @ USE-CO 1-17-17
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month/Day/Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Derek Ustamer — Signature: [signature] — Month/Day/Year: 10/13/16

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR STATE (IF REQUIRED)

Transport and Disposal of TSCA Concrete Waste Manifests

137 167,760

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	MID 005 356 ~~698~~ 696	1	13523233500	016268421 JJK

GENERATOR

5. Generator's Name and Mailing Address: ~~RACER TRUST 2930 EGORSE ROAD YPSILANTI, MI 48198~~ RACER TRUST 500 Woodward Ave Suite 2650 Detroit, MI 48226
Generator's Phone:

Generator's Site Address (if different than mailing address): 77 WEST CENTER SAGINAW, MI 48605

6. Transporter 1 Company Name: S & C Transport — U.S. EPA ID Number: MIK 126 399 684

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFI
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. ~~POLYCHLORINATED BIPHENYLS, SOLID~~ UN3432, Polychlorinated Biphenyls, 9, PG II	1	DT	45454	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G162593WDI / SOIL AND DEBRIS
CONTAINER START DATE: 9/29/16

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Steve Hoesmeyer on behalf of Racertrust — Signature: [signature] — Month 9 Day 29 Year 16

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Ulmer G Smith — Signature: [signature] — Month 09 Day 29 Year 16
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
OK to change sec 1 & 5 per Claire Wood @ USE - CD - 1-17-17
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Zack Ulmer — Signature: [signature] — Month 09 Day 29 Year 16

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: MID 005 356 ~~698~~ 696
2. Page 1 of: 1
3. Emergency Response Phone: 13523237500
4. Manifest Tracking Number: 016268422 JJK

GENERATOR

5. Generator's Name and Mailing Address: ~~2030 ECORSE ROAD~~ RACER TRUST 500 Woodward Ave suite 2650 Detroit, MI 48226
~~YPSILANTI, MI 48198~~
Generator's Phone:

Generator's Site Address (if different than mailing address): 77 WEST CENTER SAGINAW, MI 48605

6. Transporter 1 Company Name: S & C Transport
U.S. EPA ID Number: MIK 126 399 684

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFI
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. ~~POLYCHLORINATED BIPHENYLS, SOLID~~ UN 3432 Polychlorinated biphenyls, solid 9, PGII	1	DT	45454	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G162593WDI / SOIL AND DEBRIS
CONTAINER START DATE: 9/29/16

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Steve Hoevemeyer on behalf of RacerTrust
Signature:
Month 9 Day 29 Year 16

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: ASHLEY STELLA
Signature:
Month 9 Day 29 Year 16

Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

OK to correct section 14 per Claire Wood @ USE - CS 1-17-17

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Chris Grissom
Signature:
Month 9 Day 29 Year 16

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR STATE (IF REQUIRED)

S'C 140 164,480

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
MID 005 356 ~~698~~ 696	1	13523233500	016268431 JJK

GENERATOR

5. Generator's Name and Mailing Address: ~~RACER TRUST 2930 ECORSE ROAD YPSILANTI, MI 48198~~ RACER TRUST 500 Woodward Ave Suite 2650 Detroit, MI 48226

Generator's Phone:

Generator's Site Address (if different than mailing address): 77 WEST CENTER SAGINAW, MI 48605

6. Transporter 1 Company Name: S & C Transport — U.S. EPA ID Number: MIK 126 399 684

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFI
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489 — U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. ~~POLYCHLORINATED BIPHENYLS, SOLID~~ UN3432, Polychlorinated biphenyls, solid, 9, PG II	1	DT	45454	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G182593WDI / SOIL AND DEBRIS

CONTAINER START DATE: 9/29/16

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Steve Hovenkamp on behalf of RacerTrust — Signature — Month 9 Day 29 Year 16

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Gary Shook — Signature — Month 9 Day 29 Year 16

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

OK to correct Section 13 per Claire Wood @ USE-CO 1-17-17 — Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Chris Grissom — Signature — Month 9 Day 29 Year 16

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR STATE (IF REQUIRED)

152300

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
MID 005 356 ~~698~~ 696	1	1352323500	016268426 JJK

GENERATOR

5. Generator's Name and Mailing Address: ~~2930 EGORSE ROAD~~ RACER TRUST, 500 Woodward Ave, Suite R650, Detroit, MI 48226
~~YPSILANTI, MI 48198~~
Generator's Phone:

Generator's Site Address (if different than mailing address): 77 WEST CENTER, SAGINAW, MI 48605

6. Transporter 1 Company Name: S & C Transport — U.S. EPA ID Number: MIK 126 399 684

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFI
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. ~~POLYCHLORINATED BIPHENYLS, SOLID~~ UN3432, Polychlorinated biphenyls, solid, 9, PG II	1	DT	45454	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G162593WDI / SOIL AND DEBRIS
CONTAINER START DATE: 10/12/16

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Steven S. Hovencamp on behalf of Racer Trust — Signature: [signature] — Month/Day/Year: 10/12/16

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Tim O'Brien — Signature: [signature] — Month/Day/Year: 10/12/16

Transporter 2 Printed/Typed Name — Signature — Month/Day/Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
OK to correct sec 1 & 5 per Claire Wood @ USE-CO 1-19-17
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month/Day/Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Zack [illegible] — Signature: [signature] — Month/Day/Year: 10/12/16

DESIGNATED FACILITY TO GENERATOR STATE (IF REQUIRED)

124 164300

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	MID 005 356 696 ~~698~~	1	352-323-3500	016582835 JJK

5. Generator's Name and Mailing Address: ~~2430 Ecorse Road Ypsilanti MI 48198~~ Racer Trust, 500 Woodward Ave Suite 2650 Detroit, MI 48226
Generator's Phone:
Generator's Site Address (if different than mailing address): 77 West Center Saginaw MI 48605

6. Transporter 1 Company Name: S&C Transport — U.S. EPA ID Number: MIK 126 399 684

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Wayne Disposal, Inc Site #2 Landfill, 49350 N I-94 Service Drive, Belleville MI 48111 — U.S. EPA ID Number: MID 048 090 633
Facility's Phone: (800)592-5489

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated Biphenyls, Solid, 9, PG II	1	DT	45454	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
G162593 WDI / Soil & Debris
Container Start Date: 10/12/16

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Steven S. Horsemeyer on behalf of Racer Trust — Signature: [signature] — Month/Day/Year: 10/12/16

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Tim O'Brien — Signature: [signature] — Month/Day/Year: 10/12/16

Transporter 2 Printed/Typed Name — Signature — Month/Day/Year

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
OK to correct Sec 1 & 5 per Claire Wood @ USE - CS 1-17-17
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month/Day/Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: [illegible] — Signature: [signature] — Month/Day/Year: 10/13/16

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR STATE (IF REQUIRED)

1 of 4 166540

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: MID 005 356 ~~698~~ 696
2. Page 1 of: 1
3. Emergency Response Phone: 352 323 3500
4. Manifest Tracking Number: 016582833 JJK

5. Generator's Name and Mailing Address: ~~2730 Ecorse Road Ypsilanti MI 48198~~ Racer Trust 500 Woodward Ave Suite 2650 Detroit, MI 48226
Generator's Phone:

Generator's Site Address (if different than mailing address): 77 West Center Saginaw MI 48605

6. Transporter 1 Company Name: S&C Transport — U.S. EPA ID Number: MIK126399684

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Wayne Disposal Inc Site #2 Landfill — U.S. EPA ID Number: MID 048 090 633
49350 N I-94 Service Drive
Belleville MI 48111
Facility's Phone: 800-592-5489

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. UN3432, Polychlorinated Biphenyls, Solid, 9, PG II	1	DT	45454	K	PCB1		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. G162593 WDI/Soil and Debris
Container Start Date: 10/13/16

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Steven S. Hoeweler on behalf of Racer Trust — Signature: [signature] — Month 10 Day 13 Year 16

INT'L
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER
17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Tim Osborn — Signature: [signature] — Month 10 Day 13 Year 16
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY
18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
OK to correct Section 13 per Claire Ward @ USE - 1-17-17
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. PCb 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Chris Gibson — Signature: [signature] — Month 10 Day 13 Year 16

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR STATE (IF REQUIRED)

143 = 161380

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
MID 005 356 ~~695~~ 696	1	13523233500	016268429 JJK

GENERATOR

5. Generator's Name and Mailing Address: ~~2930 ECORSE ROAD~~ RACER TRUST, 500 Woodward Ave Suite 2650, Detroit, MI 48226; ~~YPSILANTI, MI 48195~~
Generator's Phone:
Generator's Site Address (if different than mailing address): 77 WEST CENTER, SAGINAW, MI 48605

6. Transporter 1 Company Name: S & C Transport — U.S. EPA ID Number: MIK 126 399 684

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFI, 49350 N I-94 SERVICE DRIVE, BELLEVILLE, MI 48111 — U.S. EPA ID Number: MID 048 090 633
Facility's Phone: (800) 592-5489

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. ~~POLYCHLORINATED BIPHENYLS, SOLID~~ UN 3432, Polychlorinated Biphenyls, solid, 9, PG II	1	DT	45454	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G162503WDI / SOIL AND DEBRIS
CONTAINER START DATE: 10/13/16

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Steven S. Hoeksema on behalf of Racer Trust — Signature: [signature] — Month 10 Day 14 Year 16

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Roger H — Signature: [signature] — Month 10 Day 14 Year 16

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
OK to correct section 18 5 per Claire Wood @ USE - CO 1-17-17
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Chris Grissom — Signature: [signature] — Month 10 Day 14 Year 16

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR STATE (IF REQUIRED)

143-155700

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: MID 005 356 696 ~~698~~ | 2. Page 1 of: 1 | 3. Emergency Response Phone: ~~352-323-3500~~ | 4. Manifest Tracking Number: 016582836 JJK

GENERATOR

5. Generator's Name and Mailing Address: ~~2930 Ecorse Road Ypsilanti MI 48198~~ Racer Trust 500 Woodward Ave Suite 2650 Detroit, MI 48226
Generator's Phone:
Generator's Site Address (if different than mailing address): 77 West Center Saginaw MI 48605

6. Transporter 1 Company Name: S&C Transport | U.S. EPA ID Number: MIK 126 399 684

7. Transporter 2 Company Name | U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Wayne Disposal Inc Site II Landfill 49350 N I-94 Service DR. Belleville MI 48111 | U.S. EPA ID Number: MID 048 090 633
Facility's Phone: 800-592-5489

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, UN3432, Polychlorinated Biphenyls, Solid, 9, PG II	1	DT	45454	K	RCB1		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. G1662593 WDI/Soil and Debris
Container Start Date: 10/18/16

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Steve Hoevemeyer on behalf of Racer Trust | Signature | Month: 10 | Day: 18 | Year: 16

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Roger H | Signature | Month: 10 | Day: 18 | Year: 16

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
OK to correct section 13.5 per Claire Wood @ USL - CD 1-17-17
Manifest Reference Number:

18b. Alternate Facility (or Generator) | U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) | Month | Day | Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCBs			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Jonathan Evans | Signature | Month: 10 | Day: 18 | Year: 16

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR STATE (IF REQUIRED)

SC ID 167460

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: MID 005 356 ~~698~~ 696
2. Page 1 of: 1
3. Emergency Response Phone: 8523233500
4. Manifest Tracking Number: 016268430 JJK

5. Generator's Name and Mailing Address: ~~RACER TRUST 2990 EGORSE ROAD YPSILANTI, MI 48198~~ RACER TRUST 500 Woodward Ave Suite 2650 Detroit, MI 48226
Generator's Phone:

Generator's Site Address (if different than mailing address): 77 WEST CENTER SAGINAW, MI 48605

6. Transporter 1 Company Name: S & C Transport
U.S. EPA ID Number: MIK 126 399 684

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFI
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. ~~POLYCHLORINATED BIPHENYLS, SOLID~~ UN3432 Polychlorinated Biphenyls, solid, 9, PG II	1	DT	45454	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G162593WDI / SOIL AND DEBRIS
CONTAINER START DATE: 10/18/16

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Steve Hoevenaar on behalf of Racer Trust
Signature:
Month: 10 Day: 18 Year: 16

INT'L
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER
17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Todd Schaffer
Signature:
Month: 10 Day: 18 Year: 16
Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY
18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
OK to correct section 13 & 5 per Claire Wood @ USE - CD - 1-17-17
Manifest Reference Number:
18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name:
Signature:
Month: 10 Day: 18 Year: 16

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR STATE (IF REQUIRED)

143 = 149080

MID 005 356 696

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	MID 005 356 ~~698~~ 696	1	~~3523233500~~	016268418 JJK

GENERATOR

5. Generator's Name and Mailing Address
~~2930 ECORSE ROAD~~ RACER TRUST
~~YPSILANTI, MI 48198~~ 500 Woodward Ave Suite 2650 Detroit, MI 48226
Generator's Phone:

Generator's Site Address (if different than mailing address)
77 WEST CENTER
SAGINAW, MI 48605

6. Transporter 1 Company Name
S & C Transport
U.S. EPA ID Number
MIK 126 399 684

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
WAYNE DISPOSAL, INC. SITE #2 LANDFI
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number
MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. ~~POLYCHLORINATED BIPHENYLS, SOLID~~ UN3432, Polychlorinated Biphenyls, solid, 9, PG II	1	DT	45454	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G162593WDI / SOIL AND DEBRIS
CONTAINER START DATE: 10/12/16

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Steve Hoeppner on behalf of Racer Trust
Signature:
Month: 10 Day: 18 Year: 16

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Roger H
Signature:
Month: 10 Day: 18 Year: 16

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

OK to correct section 15 per Claire Wood @ USE - CD 1-17-17

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Chris Gibson
Signature:
Month: 10 Day: 18 Year: 16

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR STATE (IF REQUIRED)

54c 122 158820

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) MID 005 356 696 Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	MID 005 356 ~~698~~ 696	1	~~3523233500~~	016268419 JJK

5. Generator's Name and Mailing Address
~~2930 ECORSE ROAD~~ RACER TRUST 500 Woodward Ave Suite 2650 Detroit, MI 48226
~~YPSILANTI, MI 48198~~
Generator's Phone:

Generator's Site Address (if different than mailing address)
77 WEST CENTER
SAGINAW, MI 48605

6. Transporter 1 Company Name: S & C Transport — U.S. EPA ID Number: MIK 126 399 684

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDF!
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. ~~POLYCHLORINATED BIPHENYLS, SOLID~~ UN3432, Polychlorinated Biphenyls, solid, 9, PG II	1	DT	45454	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G162583WDI / SOIL AND DEBRIS
CONTAINER START DATE: 10/18/16

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Steve Hoexmeyer on behalf of Racertrust — Signature: [signature] — Month: 10 Day: 18 Year: 16

INT'L
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER
17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Todd Schaffner — Signature: [signature] — Month: 10 Day: 18 Year: 16
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY
18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
OK to correct Section 15 per Claire Wood @ USE - CS 1-17-17
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Chris Grissom — Signature: [signature] — Month: 10 Day: 18 Year: 16

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO GENERATOR STATE (IF REQUIRED)

SIC 140 162,000

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) MID 005 356 696 Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	MID 005 356 ~~696~~ 696	1	~~3523233500~~	016268415 JJK

GENERATOR

5. Generator's Name and Mailing Address: ~~RACER TRUST 2930 ECORSE ROAD YPSILANTI, MI 48198~~ RACER TRUST 500 Woodward Ave Suite 2650 Detroit, MI 48226
Generator's Phone:
Generator's Site Address (if different than mailing address): 77 WEST CENTER SAGINAW, MI 48605

6. Transporter 1 Company Name: S & C Transport — U.S. EPA ID Number: MIK 126 399 684

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFI
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. ~~POLYCHLORINATED BIPHENYLS, SOLID~~ UN3432, Polychlorinated Biphenyls, solid, 9, PG II	1	DT	45454	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G162593WDI / SOIL AND DEBRIS
CONTAINER START DATE: 10/26/16

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Steven S. Hrovnyak on behalf of RacerTrust — Signature — Month 10 Day 26 Year 16

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Gary Shack — Signature — Month 10 Day 26 Year 16
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
OK to correct section 13 & 5 per Claire Wood @ USE – CS 1-17-17
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Claire Wood — Signature — Month 10 Day 26 Year 16

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR STATE (IF REQUIRED)

Sal 132 153560

MID 005 356 696

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	MID 005 356 ~~698~~ 696	1	3522327500	016268416 JJK

5. Generator's Name and Mailing Address: ~~2930 ECORSE ROAD~~ RACER TRUST, 500 Woodward Ave Suite 2650, Detroit, MI 48226; ~~YPSILANTI, MI 48198~~

Generator's Site Address (if different than mailing address): 77 WEST CENTER, SAGINAW, MI 48605

Generator's Phone:

6. Transporter 1 Company Name: S & C Transport — U.S. EPA ID Number: MIK 126 399 684

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFI, 49350 N I-94 SERVICE DRIVE, BELLEVILLE, MI 48111 — U.S. EPA ID Number: MID 048 090 633

Facility's Phone: (800) 592-5489

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. ~~POLYCHLORINATED BIPHENYLS, SOLID~~ UN3432, Polychlorinated Biphenyls, solid, 9, PG II	11	DT	45454	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information

1. G162583WDI / SOIL AND DEBRIS

CONTAINER START DATE: 10/26/16

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Steven S Howard on behalf of Racer Trust — Signature — Month 10 Day 26 Year 16

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Mike Sarria — Signature — Month 10 Day 26 Year 16

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

OK to correct section 13 & 5 per Claire Wood @ USE - CO 1-17-17 — Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Mike Sarria — Signature — Month 10 Day 26 Year 16

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR STATE (IF REQUIRED)

129 156900

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) MID 005 356 696 Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	MID 005 356 ~~698~~ 696	1	~~3523335~~	016268417 JJK

5. Generator's Name and Mailing Address: ~~2930 ECORSE ROAD~~ RACER TRUST, 500 Woodward Ave Suite 2650, Detroit, MI 48226
~~YPSILANTI, MI 48198~~
Generator's Phone:

Generator's Site Address (if different than mailing address): 77 WEST CENTER, SAGINAW, MI 48605

6. Transporter 1 Company Name: S & C Transport — U.S. EPA ID Number: MIK 126 399 684

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFI
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. ~~POLYCHLORINATED BIPHENYLS, SOLID~~ UN3432, Polychlorinated Biphenyls, solid, 9, PG II	1	DT	45454	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G1625~~0~~3WDI / SOIL AND DEBRIS
CONTAINER START DATE: 10/26/16

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Steven S. Hoevemeyer on behalf of Racer Trust — Signature: [signature] — Month 10 Day 26 Year 16

INT'L
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER
17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Tim Corlen — Signature: [signature] — Month 10 Day 28 Year 16
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY
18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
OK to change section 13 to 45 per Chuck Wood @ USE - CD 1-17-17
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: [illegible] — Signature: [signature] — Month 10 Day 28 Year 16

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO GENERATOR STATE (IF REQUIRED)

S.C 140 143320

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) MID 005 356 696 Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	MID 005 356 ~~698~~ 696	1	~~351-323-2500~~	010241993 JJK

5. Generator's Name and Mailing Address: ~~2930 ECORSE ROAD~~ RACER TRUST, 500 Woodward Ave Suite 2650, ~~YPSILANTI, MI 48198~~ Detroit, MI 48226
Generator's Phone:

Generator's Site Address (if different than mailing address): 77 WEST CENTER, SAGINAW, MI 48605

6. Transporter 1 Company Name: S & C Transport — U.S. EPA ID Number: MIK 126 399 684

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFI
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	84	DT	40,909	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G162583WDI / SOIL AND DEBRIS
Container Start Date: 10/26/16

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Steven S. Hovemeyer on behalf of Racer Trust — Signature — Month 10 Day 26 Year 16

INT'L
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER
17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Gary Shook — Signature — Month 10 Day 26 Year 16
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY
18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
ok to change sec #15 per Claire Wood @ USE - CO 1-17-17
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Chris Gibson — Signature — Month 10 Day 26 Year 16

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR STATE (IF REQUIRED)

Sal 132 151780
MID 005 356 696

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	MID 005 356 ~~698~~ 696	1	~~3522233501~~	010241990 JJK

GENERATOR

5. Generator's Name and Mailing Address: ~~2930 EGORSE ROAD~~ RACER TRUST, 500 Woodward Ave, Suite 2650, Detroit, MI 48226
Generator's Phone: ~~YPSILANTI, MI 48198~~

Generator's Site Address (if different than mailing address): 77 WEST CENTER, SAGINAW, MI 48605

6. Transporter 1 Company Name: S & C Transport — U.S. EPA ID Number: MIK 126 399 684

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFI
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	II	DT	45454	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information: Sal Yard
1. G182503WDI / SOIL AND DEBRIS

Container Start Date: 10-26-16

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Steven S. Hoornaert on behalf of Racer Trust — Signature — Month 10 Day 26 Year 16

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: M.L. Swain — Signature — Month 10 Day 26 Year 16

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

On to change section #5 per Claire Wood @ USE - CD 1-17-17
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Chris Grissom — Signature — Month 10 Day 26 Year 16

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR STATE (IF REQUIRED)

129 1466940

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) MID 005 356 696 Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	MID 005 356 ~~695~~ 696	1	~~3523333500~~	010241988 JJK

5. Generator's Name and Mailing Address
~~2930 EOORSE ROAD~~ RACER TRUST 500 Woodward Ave Suite 2650 Detroit, MI 48226
~~YPSILANTI, MI 48198~~
Generator's Phone:

Generator's Site Address (if different than mailing address)
77 WEST CENTER
SAGINAW, MI 48605

6. Transporter 1 Company Name: S & C Transport — U.S. EPA ID Number: MIK 126 399 684

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFI
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	1	DT	45454	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G162583WDI / SOIL AND DEBRIS
Container Start Date: 10/26/16

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Steven S. Hoesmeyer on behalf of RaceTrust — Signature — Month 10 Day 26 Year 16

INT'L
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER
17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Tim Cheren — Signature — Month 10 Day 26 Year 16
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY
18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
OK to correct section 13.5 per Claire Wood @ USE-CO 1-17-17
Actual weight 39523lb per Tom Holdiman w/ Lissmac 10/28/16
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name — Signature — Month 11 Day 2 Year 16

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO GENERATOR STATE (IF REQUIRED)

129 135800

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) MID 005 356 696 Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number MID 005 356 ~~698~~ 696	2. Page 1 of 1	3. Emergency Response Phone ~~8523232500~~	4. Manifest Tracking Number 01024198 9 JJK

5. Generator's Name and Mailing Address ~~RACER TRUST 2930 ECORSE ROAD YPSILANTI, MI 48198~~ RACER TRUST 500 Woodward Ave Suite 2650 Detroit, MI 48226
Generator's Phone:
Generator's Site Address (if different than mailing address) 77 WEST CENTER SAGINAW, MI 48605

6. Transporter 1 Company Name: S & C Transport — U.S. EPA ID Number: MIK 126 399 684

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFI
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	1	DT	45454	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G162593WDI / SOIL AND DEBRIS
Container Start Date: 10/27/16

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Steven S. Hevenor on behalf of RacerTrust — Signature — Month 10 Day 27 Year 16

INT'L
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER
17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Tim Carson — Signature — Month 10 Day 27 Year 16
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY
18. Discrepancy
18a. Discrepancy Indication Space ☑ Quantity 195 per Claim, Wood @ use - CD 1-17-17 ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Ok to correct section Actual weight 3/1/3 Ck pic Tom Hold man u
Manifest Reference Number: JJKMT BB 1/11/17
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name — Signature — Month Day Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO GENERATOR STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) MID 005 356 696 Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	MID 005 356 ~~698~~ 696	1	3523233500	016268406 JJK

GENERATOR

5. Generator's Name and Mailing Address: ~~2930 ECORSE ROAD~~ RACER TRUST, 500 Woodward Ave, Suite 2650, Detroit, MI 48226
~~YPSILANTI, MI 48198~~
Generator's Phone:

Generator's Site Address (if different than mailing address): 77 WEST CENTER, SAGINAW, MI 48605

6. Transporter 1 Company Name: S & C Transport — U.S. EPA ID Number: MIK 126 399 684

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFI, 49350 N I-94 SERVICE DRIVE, BELLEVILLE, MI 48111 — U.S. EPA ID Number: MID 048 090 633
Facility's Phone: (800) 592-5489

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. ~~POLYCHLORINATED BIPHENYLS, SOLID~~ UN3432, Polychlorinated Biphenyls, Solid, 9, PG II	1	DT	45454	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G162593WDI / SOIL AND DEBRIS
CONTAINER START DATE: 11/4/16

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Steve Hvezney on behalf of RacerTrust — Signature — Month 11 Day 4 Year 16

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: JASON GILLIN — Signature — Month 11 Day 4 Year 16

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☑ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
OK to correct section 15 per Claire Wood @ USE - cs 1-17-17
actual weight 26282K ok per Tom Holderman 55211 BB 11/9/16
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Jonathan Evans — Signature — Month 11 Day 4 Year 16

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR STATE (IF REQUIRED)

Appendix G
Boring Logs for Excavation Floor Verification Sampling

Stratigraphy Log (Overburden)
(Form SP-14)
Page____of____

Project name: SMI - RACER Trust
Project number: 7878
Client: RACER
Location: Saginaw, MI

Drilling contractor: GHD
Driller: Pat Cody
Surface elevation:
Weather (A.M.): light snow, high 20°F
(P.M.):

Hole designation: A1
Date/Time started: 01/31/17
Date/Time completed: 01/31/17
Drilling method: Geoprobe
GHD supervisor: S. Hoevemeyer

Stratigraphic Intervals (Depths in ft/m BGS)			Sample Description	Sample Details											
			Order of descriptors: Soil type symbol(s) - primary component(s), (nature of deposit), secondary components, relative density/consistency, grain size/plasticity, gradation/structure, colour, moisture content, supplementary descriptors.			Penetration Record Split Spoon Blows (Record N-Values & Recoveries)									
From	At	To	Note: Plasticity determination requires the addition of moisture if the sample is too dry to roll (indicate if moisture was added or not).	Sample Number	Sampling Method	6"	6"	6"	6"	N	R	Sample Interval	PID/FID (ppm)	Chemical Analysis	Grain Size/ Other Analysis
0		0.5	Excavated concrete												
0.5		3.5	pea stone												
3.5		5.5	mottled clay									4.0' to 4.5'	-	Sample	grab

Notes and Comments

Depth of borehole caving _____ Depth of first groundwater encounter _____ Topsoil thickness _____
Water level in open borehole on completion _____ After _____ Hours _____
Notes: _____

Combined with A2, A3, A4, A5, and A6 for Composite Sample
S-7878-013117-SSH-1022

Stratigraphy Log (Overburden)
(Form SP-14)
Page ___ of ___

Project name: SMI - RACER Trust
Project number: 7878
Client: RACER
Location: Saginaw, MI

Drilling contractor: GHD
Driller: Pat Cody
Surface elevation:
Weather (A.M.): light snow, high 20°F
(P.M.):

Hole designation: A2
Date/Time started: 01/31/17
Date/Time completed: 01/31/17
Drilling method: ~~Direct Push~~ Geoprobe
GHD supervisor: S. Hoevemeyer

Stratigraphic Intervals (Depths in ft/m BGS)			Sample Description	Sample Details											
			Order of descriptors: Soil type symbol(s) - primary component(s), (nature of deposit), secondary components, relative density/consistency, grain size/plasticity, gradation/structure, colour, moisture content, supplementary descriptors.			Penetration Record Split Spoon Blows (Record N-Values & Recoveries)									
From	At	To	Note: Plasticity determination requires the addition of moisture if the sample is too dry to roll (indicate if moisture was added or not).	Sample Number	Sampling Method	6"	6"	6"	6"	N	R	Sample Interval	PID/FID (ppm)	Chemical Analysis	Grain Size/ Other Analysis
0		0.5	Excavated concrete												
0.5		4.5	pea stone												
4.5		6.5	mottled clay									5.0' to 5.5'		Sample grab	

Notes and Comments

Depth of borehole caving _____ Depth of first groundwater encounter _____ Topsoil thickness _____
Water level in open borehole on completion _____ After _____ Hours _____
Notes: _____

Combined with A1, A3, A4, A5, and A6 for Composite Sample
S- 7878-013117-SSH-1022

Stratigraphy Log (Overburden)
(Form SP-14)
Page ___ of ___

Project name: SMI - RACER Trust
Project number: 7878
Client: RACER
Location: Saginaw, MI

Drilling contractor: GHD
Driller: Pat Cody
Surface elevation:
Weather (A.M.): light snow, high 20°F
(P.M.):

Hole designation: A3
Date/Time started: 01/31/17
Date/Time completed: 01/31/17
Drilling method: geoprobe
GHD supervisor: S. Hoevemeyer

Stratigraphic Intervals (Depths in ft/m BGS)			Sample Description	Sample Details											
			Order of descriptors: Soil type symbol(s) - primary component(s), (nature of deposit), secondary components, relative density/consistency, grain size/plasticity, gradation/structure, colour, moisture content, supplementary descriptors.			Penetration Record Split Spoon Blows (Record N-Values & Recoveries)									
From	At	To	Note: Plasticity determination requires the addition of moisture if the sample is too dry to roll (indicate if moisture was added or not).	Sample Number	Sampling Method	6"	6"	6"	6"	N	R	Sample Interval	PID/FID (ppm)	Chemical Analysis	Grain Size/ Other Analysis
0		0.5	excavated concrete												
0.5		1.0	pea gravel												
1.0		2.5	foundry sand									1.5' to 2.0' - Sample grab			

Notes and Comments

Depth of borehole caving _____ Depth of first groundwater encounter _____ Topsoil thickness _____
Water level in open borehole on completion _____ After _____ Hours _____
Notes:

Combined with A1, A2, A4, A5, A6 for composite sample
S-7878-013117-SSH-1022

Stratigraphy Log (Overburden)
(Form SP-14)
Page____of____

Project name: SMI - RACER TRUST
Project number: 7878
Client: RACER
Location: Saginaw, MI

Drilling contractor: GHD
Driller: Pat Cody
Surface elevation:
Weather (A.M.): light snow, high 20°F
(P.M.):

Hole designation: A4
Date/Time started: 01/31/17
Date/Time completed: 01/31/17
Drilling method: geoprobe
GHD supervisor: S. Hovemeyer

Stratigraphic Intervals (Depths in ft/m BGS)			Sample Description	Sample Details											
			Order of descriptors: Soil type symbol(s) - primary component(s), (nature of deposit), secondary components, relative density/consistency, grain size/plasticity, gradation/structure, colour, moisture content, supplementary descriptors.			Penetration Record Split Spoon Blows (Record N-Values & Recoveries)									
From	At	To	Note: Plasticity determination requires the addition of moisture if the sample is too dry to roll (indicate if moisture was added or not).	Sample Number	Sampling Method	6"	6"	6"	6"	N	R	Sample Interval	PID/FID (ppm)	Chemical Analysis	Grain Size/ Other Analysis
0		0.5	excavated concrete.												
0.5		2.5	pea stone												
2.5		4.0	fill, sand									3.0'	to 3.5'	- grab sample	

Notes and Comments

Depth of borehole caving _____ Depth of first groundwater encounter _____ Topsoil thickness _____
Water level in open borehole on completion _____ After _____ Hours _____
Notes:

Combined with A1, A2, A3, A5, A6 for composite sample
S- 7878-013117-SS14-1022

Stratigraphy Log (Overburden)
(Form SP-14)
Page____of____

Project name: SWMI - RACER Trust
Project number: 7878
Client: RACER
Location: Saginaw, MI

Drilling contractor: GHD
Driller: Pat Cody
Surface elevation:
Weather (A.M.): light snow, high 20°F
(P.M.):

Hole designation: A5
Date/Time started: 01/31/17
Date/Time completed: 01/31/17
Drilling method: geoprobe
GHD supervisor: S. Hoevemeyer

Stratigraphic Intervals (Depths in ft/m BGS)			Sample Description	Sample Details											
			Order of descriptors: Soil type symbol(s) - primary component(s), (nature of deposit), secondary components, relative density/consistency, grain size/plasticity, gradation/structure, colour, moisture content, supplementary descriptors.			Penetration Record Split Spoon Blows (Record N-Values & Recoveries)									
From	At	To	Note: Plasticity determination requires the addition of moisture if the sample is too dry to roll (indicate if moisture was added or not).	Sample Number	Sampling Method	6"	6"	6"	6"	N	R	Sample Interval	PID/FID (ppm)	Chemical Analysis	Grain Size/ Other Analysis
0		0.5	excavated concrete												
0.5		4.5	pea stone												
4.5		6.5	foundry sand									5.0' to 5.5'		grab sample.	

Notes and Comments

Depth of borehole caving _____ Depth of first groundwater encounter _____ Topsoil thickness _____
Water level in open borehole on completion _____ After _____ Hours _____
Notes: _____

Combined with A1, A2, A3, A4, A6 for composite sample

S-7878-013117-SSH-D22

Stratigraphy Log (Overburden)
(Form SP-14)
Page____of____

Project name: SMI – RACER Trust
Project number: 7878
Client: RACER
Location: Saginaw, MI

Drilling contractor: GHD
Driller: Pat Cody
Surface elevation:
Weather (A.M.): light snow, high 20°F
(P.M.):

Hole designation: A6
Date/Time started: 01/31/17
Date/Time completed: 01/31/17
Drilling method: Geoprobe
GHD supervisor: S. Hoevemeyer

Stratigraphic Intervals (Depths in ft/m BGS)			Sample Description	Sample Details											
			Order of descriptors: Soil type symbol(s) - primary component(s), (nature of deposit), secondary components, relative density/consistency, grain size/plasticity, gradation/structure, colour, moisture content, supplementary descriptors.			Penetration Record Split Spoon Blows (Record N-Values & Recoveries)									
From	At	To	Note: Plasticity determination requires the addition of moisture if the sample is too dry to roll (indicate if moisture was added or not).	Sample Number	Sampling Method	6"	6"	6"	6"	N	R	Sample Interval	PID/FID (ppm)	Chemical Analysis	Grain Size/ Other Analysis
0		0.5	Excavated Concrete.												
0.5		4.0	pea gravel												
4.0		7.0	foundry sand									4.5' to 5.0'		Grab Sample	

Notes and Comments

Depth of borehole caving _____ Depth of first groundwater encounter _____ Topsoil thickness _____
Water level in open borehole on completion _____ After _____ Hours _____
Notes:

Combined with A1, A2, A3, A4, A5 for composite Sample

S-7878-013117-SSH-1022

Stratigraphy Log (Overburden)
(Form SP-14)
Page____of____

Project name: SMI - RACER TRUST
Project number: 7878
Client: RACER
Location: Saginaw, MI

Drilling contractor: GHD
Driller: Pat Cody
Surface elevation:
Weather (A.M.): light snow, high 20°F
(P.M.):

Hole designation: BS
Date/Time started: 01/31/17
Date/Time completed: 01/31/17
Drilling method: geoprobe
GHD supervisor: S. Hoevemeyer

Stratigraphic Intervals (Depths in ft/m BGS)			Sample Description	Sample Details											
			Order of descriptors: Soil type symbol(s) - primary component(s), (nature of deposit), secondary components, relative density/consistency, grain size/plasticity, gradation/structure, colour, moisture content, supplementary descriptors.			Penetration Record Split Spoon Blows (Record N-Values & Recoveries)									
From	At	To	Note: Plasticity determination requires the addition of moisture if the sample is too dry to roll (indicate if moisture was added or not).	Sample Number	Sampling Method	6"	6"	6"	6"	N	R	Sample Interval	PID/FID (ppm)	Chemical Analysis	Grain Size/ Other Analysis
0		0.5	Excavated concrete												
0.5		2.5	pea stone												
2.5		5.5	mottled clay									4.0' to 4.5'	-	sample grab	

Notes and Comments

Depth of borehole caving _____ Depth of first groundwater encounter _____ Topsoil thickness _____
Water level in open borehole on completion _____ After _____ Hours _____
Notes: _____

Combined with BG as composite sample S-7878-013117-SSH-1025

Stratigraphy Log (Overburden)
(Form SP-14)
Page ___ of ___

Project name: SMI - RACER TRUST
Project number: 7878
Client: RACER
Location: Saginaw, MI

Drilling contractor: GHD
Driller: Pat Cody
Surface elevation:
Weather (A.M.): light snow, high 20°F
(P.M.):

Hole designation: B6
Date/Time started: 1/31/17
Date/Time completed: ~~Geop~~ 1/31/17
Drilling method: Geoprobe
GHD supervisor: S. Hoevemeyer

Stratigraphic Intervals (Depths in ft/m BGS)			Sample Description	Sample Details											
			Order of descriptors: Soil type symbol(s) - primary component(s), (nature of deposit), secondary components, relative density/consistency, grain size/plasticity, gradation/structure, colour, moisture content, supplementary descriptors.			Penetration Record Split Spoon Blows (Record N-Values & Recoveries)									
From	At	To	Note: Plasticity determination requires the addition of moisture if the sample is too dry to roll (indicate if moisture was added or not).	Sample Number	Sampling Method	6"	6"	6"	6"	N	R	Sample Interval	PID/FID (ppm)	Chemical Analysis	Grain Size/ Other Analysis
0		0.5	Excavated concrete												
0.5		2.5	pea stone												
2.5		4.5	Soft silty clay.									3.0' to 3.5'	–	Sample	grab

Notes and Comments

Depth of borehole caving _____ Depth of first groundwater encounter _____ Topsoil thickness _____
Water level in open borehole on completion _____ After _____ Hours _____
Notes: _____

Combined with B5 as composite sample S-7878-013117-SSH-1025

Stratigraphy Log (Overburden)
(Form SP-14)
Page____of____

Project name: SMI - RACER Trust
Project number: 7878
Client: RACER
Location: Saginaw, MI

Drilling contractor: GHD
Driller: Pat Cody
Surface elevation:
Weather (A.M.): light snow, high 20°F
(P.M.):

Hole designation: C4
Date/Time started: 01/31/17
Date/Time completed: 01/31/17
Drilling method: geoprobe
GHD supervisor: S. Hoevemeyer

Stratigraphic Intervals (Depths in ft/m BGS)			Sample Description	Sample Details											
			Order of descriptors: Soil type symbol(s) - primary component(s), (nature of deposit), secondary components, relative density/consistency, grain size/plasticity, gradation/structure, colour, moisture content, supplementary descriptors.			Penetration Record Split Spoon Blows (Record N-Values & Recoveries)									
From	At	To	Note: Plasticity determination requires the addition of moisture if the sample is too dry to roll (indicate if moisture was added or not).	Sample Number	Sampling Method	6"	6"	6"	6"	N	R	Sample Interval	PID/FID (ppm)	Chemical Analysis	Grain Size/ Other Analysis
0		0.5	excavated concrete												
0.5		3.5	pea stone												
3.5		5.5	fill, sand/gravel									4.0' to 4.5'		- grab sample	

Notes and Comments

Depth of borehole caving _____ Depth of first groundwater encounter _____ Topsoil thickness _____
Water level in open borehole on completion _____ After _____ Hours _____
Notes: _____

combined with C5 and C6 for composite sample

S-7878-013117-SSH-1024

Stratigraphy Log (Overburden)
(Form SP-14)
Page____of____

Project name: SMI - RACER Trust
Project number: 07878
Client: RACER
Location: Saginaw, MI

Drilling contractor: GHD
Driller: Pat Cody
Surface elevation:
Weather (A.M.): light snow, high 20°F
(P.M.):

Hole designation: CS
Date/Time started: 01/31/17
Date/Time completed: 01/31/17
Drilling method: geoprobe
GHD supervisor: S. Hoevemeyer

Stratigraphic Intervals (Depths in ft/m BGS)			Sample Description	Sample Details											
			Order of descriptors: Soil type symbol(s) - primary component(s), (nature of deposit), secondary components, relative density/consistency, grain size/plasticity, gradation/structure, colour, moisture content, supplementary descriptors.			Penetration Record Split Spoon Blows (Record N-Values & Recoveries)									
From	At	To	Note: Plasticity determination requires the addition of moisture if the sample is too dry to roll (indicate if moisture was added or not).	Sample Number	Sampling Method	6"	6"	6"	6"	N	R	Sample Interval	PID/FID (ppm)	Chemical Analysis	Grain Size/ Other Analysis
0		0.5	excavated concrete												
0.5		3.0	pea stone												
3.0		4.5	mottled clay									3.5'	to 4.0'	grab sample	

Notes and Comments

Depth of borehole caving _____ Depth of first groundwater encounter _____ Topsoil thickness _____
Water level in open borehole on completion _____ After _____ Hours _____
Notes: _____

Combined with C4 and C6 for composite sample

S - 7878 - 013117-SSH - 1024

Stratigraphy Log (Overburden)
(Form SP-14)
Page ___ of ___

Project name: SMI - RACER Trust
Project number: 7878
Client: RACER
Location: Saginaw, MI

Drilling contractor: GHD
Driller: Pat Cody
Surface elevation:
Weather (A.M.): light snow, high 20°F
(P.M.):

Hole designation: C6
Date/Time started: 01/31/17
Date/Time completed: 01/31/17
Drilling method: geoprobe
GHD supervisor: S. Heavemeyer

Stratigraphic Intervals (Depths in ft/m BGS)			Sample Description	Sample Details											
			Order of descriptors: Soil type symbol(s) - primary component(s), (nature of deposit), secondary components, relative density/consistency, grain size/plasticity, gradation/structure, colour, moisture content, supplementary descriptors.			Penetration Record Split Spoon Blows (Record N-Values & Recoveries)									
From	At	To	Note: Plasticity determination requires the addition of moisture if the sample is too dry to roll (indicate if moisture was added or not).	Sample Number	Sampling Method	6"	6"	6"	6"	N	R	Sample Interval	PID/FID (ppm)	Chemical Analysis	Grain Size/ Other Analysis
0		0.5	excavated concrete												
0.5		3.0	pea stone												
3.0		4.5	mottled clay									3.5' to 4.0'		grab sample	

Notes and Comments

Depth of borehole caving _____ Depth of first groundwater encounter _____ Topsoil thickness _____
Water level in open borehole on completion _____ After _____ Hours _____
Notes:

Combined with CH and CS for composite sample

S-7878-013117-SSH-1024

Stratigraphy Log (Overburden)
(Form SP-14)
Page ___ of ___

Project name: SMI - RACER TRUST
Project number: 7878
Client: RACER
Location: Saginaw, MI

Drilling contractor: GHD
Driller: Pat Cody
Surface elevation:
Weather (A.M.): light snow, high 20°F
(P.M.):

Hole designation: D1
Date/Time started: 01/31/17
Date/Time completed: 01/31/17
Drilling method: geoprobe
GHD supervisor: S. Hoevemeyer

Stratigraphic Intervals (Depths in ft/m BGS)			Sample Description	Sample Details											
			Order of descriptors: Soil type symbol(s) - primary component(s), (nature of deposit), secondary components, relative density/consistency, grain size/plasticity, gradation/structure, colour, moisture content, supplementary descriptors.			Penetration Record Split Spoon Blows (Record N-Values & Recoveries)									
From	At	To	Note: Plasticity determination requires the addition of moisture if the sample is too dry to roll (indicate if moisture was added or not).	Sample Number	Sampling Method	6"	6"	6"	6"	N	R	Sample Interval	PID/FID (ppm)	Chemical Analysis	Grain Size/ Other Analysis
0		0.5	excavated concrete												
0.5		2.5	pea stone												
2.5		3.5	mottled clay									3.0' to 3.5'		- grab sample	

Notes and Comments

Depth of borehole caving _____ Depth of first groundwater encounter _____ Topsoil thickness _____
Water level in open borehole on completion _____ After _____ Hours _____
Notes: _____

combined with D2, D3, D4, D5, D6 for composite sample

S-7878-013117-SSH-1023

Stratigraphy Log (Overburden)
(Form SP-14)
Page____of____

Project name: SMI - RACER Trust
Project number: 7878
Client: RACER
Location: Saginaw, MI

Drilling contractor: GHD
Driller: Pat Cody
Surface elevation:
Weather (A.M.): light snow, high 20°F
(P.M.):

Hole designation: D2
Date/Time started: 01/31/17
Date/Time completed: 01/31/17
Drilling method: geoprobe
GHD supervisor: S. Hoevemeyer.

Stratigraphic Intervals (Depths in ft/m BGS)			Sample Description	Sample Details											
			Order of descriptors: Soil type symbol(s) - primary component(s), (nature of deposit), secondary components, relative density/consistency, grain size/plasticity, gradation/structure, colour, moisture content, supplementary descriptors.			Penetration Record Split Spoon Blows (Record N-Values & Recoveries)									
From	At	To	Note: Plasticity determination requires the addition of moisture if the sample is too dry to roll (indicate if moisture was added or not).	Sample Number	Sampling Method	6"	6"	6"	6"	N	R	Sample Interval	PID/FID (ppm)	Chemical Analysis	Grain Size/ Other Analysis
0		0.5	excavated concrete												
0.5		2.0	pea stone												
2.0		5.0	foundry sand									2.5' to 3.0'		grab sample	

Notes and Comments

Depth of borehole caving _____ Depth of first groundwater encounter _____ Topsoil thickness _____
Water level in open borehole on completion _____ After _____ Hours _____
Notes: _____

Combined with D1, D3, D4, D5, D6 for composite sample

S- 7878-013117-SSH-1023

Stratigraphy Log (Overburden)
(Form SP-14)
Page____of____

Project name: SMI - RACER TRUST
Project number: 7878
Client: RACER
Location: Saginaw, MI

Drilling contractor: GHD
Driller: Pat Cody
Surface elevation:
Weather (A.M.): light snow, high 20°F
(P.M.):

Hole designation: D3
Date/Time started: 01/31/17
Date/Time completed: 01/31/17
Drilling method: geoprobe
GHD supervisor: S. Hoevemeyer

Stratigraphic Intervals (Depths in ft/m BGS)			Sample Description	Sample Details												
			Order of descriptors: Soil type symbol(s) - primary component(s), (nature of deposit), secondary components, relative density/consistency, grain size/plasticity, gradation/structure, colour, moisture content, supplementary descriptors.			Penetration Record Split Spoon Blows (Record N-Values & Recoveries)										
From	At	To	Note: Plasticity determination requires the addition of moisture if the sample is too dry to roll (indicate if moisture was added or not).	Sample Number	Sampling Method	6"	6"	6"	6"	N	R	Sample interval	PID/FID (ppm)	Chemical Analysis	Grain Size/ Other Analysis
0		0.5	excavated concrete												
0.5		2.0	pea stone												
2.0		3.5	foundry sand									2.5' to 3.0'		-grab sample	
3.5		5.0	mottled clay.												

Notes and Comments

Depth of borehole caving _____ Depth of first groundwater encounter _____ Topsoil thickness _____
Water level in open borehole on completion _____ After _____ Hours _____
Notes: _____

Combined with D1, D2, D4, D5, D6 for composite Sample

S-7878-013117-SSH-1023

Stratigraphy Log (Overburden)
(Form SP-14)
Page____of____

Project name: SMT - RACER Trust
Project number: 7878
Client: RACER
Location: Saginaw, MI

Drilling contractor: GHD
Driller: Pat Cody
Surface elevation:
Weather (A.M.): light snow, high 20°F
(P.M.):

Hole designation: D4
Date/Time started: 01/31/17
Date/Time completed: 01/31/17
Drilling method: Geoprobe
GHD supervisor: S. Hoevemeyer

Stratigraphic Intervals (Depths in ft/m BGS)			Sample Description	Sample Details											
			Order of descriptors: Soil type symbol(s) - primary component(s), (nature of deposit), secondary components, relative density/consistency, grain size/plasticity, gradation/structure, colour, moisture content, supplementary descriptors.			Penetration Record Split Spoon Blows (Record N-Values & Recoveries)									
From	At	To	Note: Plasticity determination requires the addition of moisture if the sample is too dry to roll (indicate if moisture was added or not).	Sample Number	Sampling Method	6"	6"	6"	6"	N	R	Sample Interval	PID/FID (ppm)	Chemical Analysis	Grain Size/ Other Analysis
0		0.5	excavated concrete												
0.5		2.0	pea stone												
2.0		4.0	foundry sand									2.5' to 3.0'		- sample grab.	

Notes and Comments

Depth of borehole caving _____ Depth of first groundwater encounter _____ Topsoil thickness _____
Water level in open borehole on completion _____ After _____ Hours _____
Notes:

combined with D1, D2, D3, D5, D6 for composite sample
S-7878-013117-SSH-1023

Stratigraphy Log (Overburden)
(Form SP-14)
Page____of____

Project name: SMI - RACER Trust
Project number: 7878
Client: RACER
Location: Saginaw, MI

Drilling contractor: GHD
Driller: Pat Cody
Surface elevation:
Weather (A.M.): light snow, high 20°F
(P.M.):

Hole designation: D5
Date/Time started: 01/31/17
Date/Time completed: 01/31/17
Drilling method: geoprobe
GHD supervisor: S. Hoevemeyer

Stratigraphic Intervals (Depths in ft/m BGS)			Sample Description	Sample Details												
			Order of descriptors: Soil type symbol(s) - primary component(s), (nature of deposit), secondary components, relative density/consistency, grain size/plasticity, gradation/structure, colour, moisture content, supplementary descriptors.			Penetration Record Split Spoon Blows (Record N-Values & Recoveries)										
From	At	To	Note: Plasticity determination requires the addition of moisture if the sample is too dry to roll (indicate if moisture was added or not).	Sample Number	Sampling Method	6"	6"	6"	6"	N	R	Sample Interval	PID/FID (ppm)	Chemical Analysis	Grain Size/ Other Analysis
0		0.5	excavated concrete												
0.5		2.5	pea stone												
2.5		4.5	mottled clay									3.0'-	3.5' - grab sample.		

Notes and Comments

Depth of borehole caving _____ Depth of first groundwater encounter _____ Topsoil thickness _____
Water level in open borehole on completion _____ After _____ Hours _____
Notes:

Combined with D1, D2, D3, D4, D6 for composite sample
S-7878-013117-SSH-1023

Stratigraphy Log (Overburden)
(Form SP-14)
Page____of____

Project name: SMI - RACER Trust
Project number: 7878
Client: RACER
Location: Saginaw, MI

Drilling contractor: GHD
Driller: Pat Cody
Surface elevation:
Weather (A.M.): light snow, high 20°F
(P.M.):

Hole designation: D6
Date/Time started: 01/31/17
Date/Time completed: 01/31/17
Drilling method: Geoprobe
GHD supervisor: S. Havemeyer

Stratigraphic Intervals (Depths in ft/m BGS)			Sample Description	Sample Details											
			Order of descriptors: Soil type symbol(s) - primary component(s), (nature of deposit), secondary components, relative density/consistency, grain size/plasticity; gradation/structure, colour, moisture content, supplementary descriptors.			Penetration Record Split Spoon Blows (Record N-Values & Recoveries)									
From	At	To	Note: Plasticity determination requires the addition of moisture if the sample is too dry to roll (indicate if moisture was added or not).	Sample Number	Sampling Method	6"	6"	6"	6"	N	R	Sample Interval	PID/FID (ppm)	Chemical Analysis	Grain Size/ Other Analysis
0		0.5	excavated concrete												
0.5		2.5	pea stone												
2.5		4.0	mottled clay									3.0 to 3.5'		- grab	sample

Notes and Comments:
Depth of borehole caving _____ Depth of first groundwater encounter _____ Topsoil thickness _____
Water level in open borehole on completion _____ After _____ Hours _____
Notes:

Combined with D1, D2, D3, D4, D5 for composite sample

S-7878-013117-SSH-1023.

Stratigraphy Log (Overburden)
(Form SP-14)
Page____of____

Project name: SMI - RACER Trust
Project number: 7878
Client: RACER
Location: Saginaw, MI

Drilling contractor: GHD
Driller: Pat Cody
Surface elevation:
Weather (A.M.): light snow, high 20F
(P.M.):

Hole designation: BH SB-17
Date/Time started: 01/31/17
Date/Time completed: 01/31/17
Drilling method: geoprobe
GHD supervisor: S. Hoevemeyer

Stratigraphic Intervals (Depths in ft/m BGS)			Sample Description	Sample Details											
			Order of descriptors: Soil type symbol(s) - primary component(s), (nature of deposit), secondary components, relative density/consistency, grain size/plasticity, gradation/structure, colour, moisture content, supplementary descriptors.			Penetration Record Split Spoon Blows (Record N-Values & Recoveries)									
From	At	To	Note: Plasticity determination requires the addition of moisture if the sample is too dry to roll (indicate if moisture was added or not).	Sample Number	Sampling Method	6"	6"	6"	6"	N	R	Sample Interval	PID/FID (ppm)	Chemical Analysis	Grain Size/ Other Analysis
0		0.5	concrete												
0.5		2.5	foundry sand, wet									0-2'	-Grab	sample	-(1019A)
												2'-4'	-Grab	sample	(1019B)
2.5		6.5	mottled brown silty clay, with sand, trace gravel, moist									4'-6'	-Grab	sample	(1019C)

Notes and Comments

Depth of borehole caving _____ Depth of first groundwater encounter _____ Topsoil thickness _____
Water level in open borehole on completion _____ After _____ Hours _____
Notes: _____

Stratigraphy Log (Overburden)
(Form SP-14)
Page____of____

Project name: SMI - RACER Trust
Project number: 7878
Client: RACER
Location: Saginaw, MT

Drilling contractor: GHD
Driller: Pat Cody
Surface elevation:
Weather (A.M.): light snow, ~~cold~~ high 20°F
(P.M.):

Hole designation: BSG-17
Date/Time started: 01/31/17
Date/Time completed: 01/31/17
Drilling method: geoprobe
GHD supervisor: S. Hoevemeyer

Stratigraphic Intervals (Depths in ft/m BGS)			Sample Description	Sample Details											
			Order of descriptors: Soil type symbol(s) - primary component(s), (nature of deposit), secondary components, relative density/consistency, grain size/plasticity, gradation/structure, colour, moisture content, supplementary descriptors.			Penetration Record Split Spoon Blows (Record N-Values & Recoveries)									
From	At	To	Note: Plasticity determination requires the addition of moisture if the sample is too dry to roll (indicate if moisture was added or not).	Sample Number	Sampling Method	6"	6"	6"	6"	N	R	Sample Interval	PID/FID (ppm)	Chemical Analysis	Grain Size/ Other Analysis
0		0.5	Concrete												
												0-2'	- Grab Sample		(1017A)
0.5		1.0	foundry Sand									2-4'	- Grab Sample		(1017B)
												4-6'	- Grab Sample		(1017C)
1.0		6.5	brown Sandy clay, trace gravel, little silt, moist												

Notes and Comments

Depth of borehole caving _____ Depth of first groundwater encounter _____ Topsoil thickness _____
Water level in open borehole on completion _____ After _____ Hours _____
Notes: _____

Stratigraphy Log (Overburden)
(Form SP-14)
Page 1 of 1

Project name: SMI - Rees Trust
Project number: 057873
Client:
Location: Saginaw, M.I.

Drilling contractor: GHD
Driller: Pat Cody
Surface elevation:
Weather (A.M.): Heavy Rain 58-94°
(P.M.):

Hole designation: B1
Date/Time started: 2-7-17
Date/Time completed: 2-7-17
Drilling method: GeoProbe
GHD supervisor: S. Kippen

Stratigraphic Intervals (Depths in ft/m BGS)			Sample Description	Sample Details											
			Order of descriptors: Soil type symbol(s) - primary component(s), (nature of deposit), secondary components, relative density/consistency, grain size/plasticity, gradation/structure, colour, moisture content,			Penetration Record Split Spoon Blows (Record N-Values & Recoveries)									
From	At	To	Note: Plasticity determination requires the addition of moisture if the sample is too dry to roll (indicate if moisture was added or not).	Sample Number	Sampling Method	6"	6"	6"	6"	N	R	Sample Interval	PID/FID (ppm)	Chemical Analysis	Grain Size/ Other Analysis
0		3.5	- Pea stone -												
3.5		4.4	- SP- sand. f.g., poorly graded compact, Black, wet									4.4' to 5.0'		- Sample grab @ 9:30 (-003)	
4.4		7.5	- CL- silty clay, stiff, low plast, mottled lt Brown/ltgray, moist.												

Notes and Comments

Depth of borehole caving _____ Depth of first groundwater encounter _____ Topsoil thickness _____
Water level in open borehole on completion _____ After _____ Hours _____
Notes: _____

Stratigraphy Log (Overburden)
(Form SP-14)

Project name: SMI. Racer Trust
Project number: 007878
Client: Racer Trust.
Location: Saginaw, M.I

Drilling contractor: GHD
Driller: P. Cody
Surface elevation: —
Weather (A.M.): Hard Rain 38-44°
(P.M.):

Hole designation: B2
Date/Time started: 2-7-17
Date/Time completed: 2-7-17
Drilling method: Geoprobe.
GHD supervisor: S. Kippen

Stratigraphic Intervals (Depths in ft/m BGS) From	At	To	Sample Description Order of descriptors: Soil type symbol(s) - primary component(s), (nature of deposit), secondary components, relative density/consistency, grain size/plasticity, gradation/structure, colour, moisture content, Note: Plasticity determination requires the addition of moisture if the sample is too dry to roll (indicate if moisture was added or not).	Sample Details: Sample Number	Sampling Method	Penetration Record Split Spoon Blows (Record N-Values & Recoveries) 6"	6"	6"	6"	N	R	Sample Interval	PID/FID (ppm)	Chemical Analysis	Grain Size/ Other Analysis
0		3.6	- Peastone -												
3.6		4.0	- SP- sand; compact, f-g, poorly graded, Black, wet.					Sample -				4.0'-4.5' @		9:50	(-004)
4.0		6.0	- CL- silty clay; stiff, low plast, mottled												
			- 4 offsets from original staked Location "B2". - concrete at ground 3.8' to 3.5' bgs.												
			- 5th attempt 30" inches North, No concrete. This Boring (B2) to 6.0 ft bgs. (of original stake)												

Notes and Comments

Depth of borehole caving _____ Depth of first groundwater encounter _____ Topsoil thickness _____
Water level in open borehole on completion _____ After _____ Hours _____
Notes: _____

Stratigraphy Log (Overburden)
(Form SP-14)
Page 1 of 1

Project name: SMI. Racer Trust
Project number: 007878
Client:
Location: Saginaw, M.I.

Drilling contractor: GHD
Driller: P. Cody
Surface elevation:
Weather (A.M.): Hard Rain 38-44°
(P.M.):

Hole designation: B3
Date/Time started: 2-7-17
Date/Time completed: 2-7-17
Drilling method: GeoProbe
GHD supervisor: S. Kippen

Stratigraphic Intervals (Depths in ft/m BGS) From	At	To	Sample Description: Order of descriptors: Soil type symbol(s) - primary component(s), (nature of deposit), secondary components, relative density/consistency, grain size/plasticity, gradation/structure, colour, moisture content, Note: Plasticity determination requires the addition of moisture if the sample is too dry to roll (indicate if moisture was added or not).	Sample Details: Sample Number	Sampling Method	Penetration Record Split Spoon Blows (Record N-Values & Recoveries) 6"	6"	6"	6"	N	R	Sample Interval	PID/FID (ppm)	Chemical Analysis	Grain Size/ Other Analysis
0		3.0	- Peastone -												
3.0		6.0	- CL - silty clay, trace fine gravels; stiff, low plast, Lt gray, moist					Sample — 3.5' to 4.0' @ 10:05 (-005)							

Notes and Comments
Depth of borehole caving _____ Depth of first groundwater encounter _____ Topsoil thickness _____
Water level in open borehole on completion _____ After _____ Hours _____
Notes: _____

Stratigraphy Log (Overburden)
(Form SP-14)
Page 1 of 1

Project name: SMI Racer Trust
Project number: 007878
Client: —
Location: Saginaw, M.I.

Drilling contractor: GHD
Driller: Pat. Cody
Surface elevation:
Weather (A.M.): Rain 38-44°
(P.M.):

Hole designation: B4
Date/Time started: 2-7-17
Date/Time completed: 2-7-17
Drilling method: Geo Probe
GHD supervisor: S. Kippen

Stratigraphic Intervals (Depths in ft/m BGS) From	At	To	Sample Description: Order of descriptors: Soil type symbol(s) - primary component(s), (nature of deposit), secondary components, relative density/consistency, grain size/plasticity, gradation/structure, colour, moisture content, Note: Plasticity determination requires the addition of moisture if the sample is too dry to roll (indicate if moisture was added or not).	Sample Details: Sample Number	Sampling Method	Penetration Record Split Spoon Blows (Record N-Values & Recoveries) 6"	6"	6"	6"	N	R	Sample Interval	PID/FID (ppm)	Chemical Analysis	Grain Size/ Other Analysis
0		3.2'	- Pea Stone -												
3.2		6.0	- CL - silty clay, trace fine gravels, lt. gray, moist. (stiff - low plast)									Sample - 3.7 to 4.2' @			10:15 (-006)
												Composite @			10:30 (-001)

Notes and Comments
Depth of borehole caving _____ Depth of first groundwater encounter _____ Topsoil thickness _____
Water level in open borehole on completion _____ After _____ Hours _____
Notes: _____

Composite = S-7878-020717-SK-001
(B1, B2, B3, B4)

Stratigraphy Log (Overburden)
(Form SP-14)
Page 1 of 1

Project name: SMI. Racer Trust
Project number: 007878
Client:
Location: Saginaw, M.I.

Drilling contractor: GHD
Driller: P. Cody
Surface elevation: -
Weather (A.M.): Rain 38.4°F
(P.M.):

Hole designation: C1
Date/Time started: 2-7-17
Date/Time completed: 2-7-17
Drilling method: GeoProbe
GHD supervisor: S. Kippen

Stratigraphic Intervals (Depths in ft/m BGS) From	At	To	Sample Description: Order of descriptors: Soil type symbol(s) - primary component(s), (nature of deposit), secondary components, relative density/consistency, grain size/plasticity, gradation/structure, colour, moisture content, supplementary descriptors. Note: Plasticity determination requires the addition of moisture if the sample is too dry to roll (indicate if moisture was added or not).	Sample Details: Sample Number	Sampling Method	Penetration Record Split Spoon Blows (Record N-Values & Recoveries) 6"	6"	6"	6"	N	R	Sample Interval	PID/FID (ppm)	Chemical Analysis	Grain Size/ Other Analysis
0		3.8	- Pea Stone -												
3.8		6.0	- CL- silty clay, stiff, Low plast, lt Brownish gray, moist.						sample	4.3 to 4.8'		@ 13:15 (-009)			
					composite - (-002) @ 13:30										

Notes and Comments
Depth of borehole caving _____ Depth of first groundwater encounter _____ Topsoil thickness _____
Water level in open borehole on completion _____ After _____ Hours _____
Notes:

Composite = S-7878-020717-SK-002
(C1, C2, C3)

Stratigraphy Log (Overburden)
(Form SP-14)
Page 1 of 1

Project name: SMI Racer Trust
Project number: 007878
Client: —
Location: Saginaw, M.I.

Drilling contractor: GHD
Driller: P. Cody
Surface elevation: —
Weather (A.M.): —
(P.M.): Rain - 38-44°

Hole designation: C2
Date/Time started: 2-7-17
Date/Time completed: 2-7-17
Drilling method: Geo Probe
GHD supervisor: S. Kippen

Stratigraphic Intervals (Depths in ft/m BGS)			Sample Description	Sample Details												
			Order of descriptors: Soil type symbol(s) - primary component(s), (nature of deposit), secondary components, relative density/consistency, grain size/plasticity, gradation/structure, colour, moisture content, supplementary descriptors.			Penetration Record Split Spoon Blows (Record N-Values & Recoveries)										
From	At	To	Note: Plasticity determination requires the addition of moisture if the sample is too dry to roll (indicate if moisture was added or not).	Sample Number	Sampling Method	6"	6"	6"	6"	N	R	Sample Interval	PID/FID (ppm)	Chemical Analysis	Grain Size/ Other Analysis
0		3.9	- Pea Stone												
3.9		6.0	- SP- sand, trace silts, trace clays, compact, f.g., poorly graded, Blacks/Browns/Reds., Moist							Sample		3.9' to 4.4'	@ 13:05	-(008)	

Notes and Comments

Depth of borehole caving _____ Depth of first groundwater encounter _____ Topsoil thickness _____
Water level in open borehole on completion _____ After _____ Hours _____
Notes: _____

Stratigraphy Log (Overburden)
(Form SP-14)
Page 1 of 1

Project name: SMI. Racer Trust
Project number: 007873
Client:
Location: Saginaw, M.I.

Drilling contractor: GHD
Driller: P. Cody
Surface elevation:
Weather (A.M.): Rain
(P.M.): 38-44°

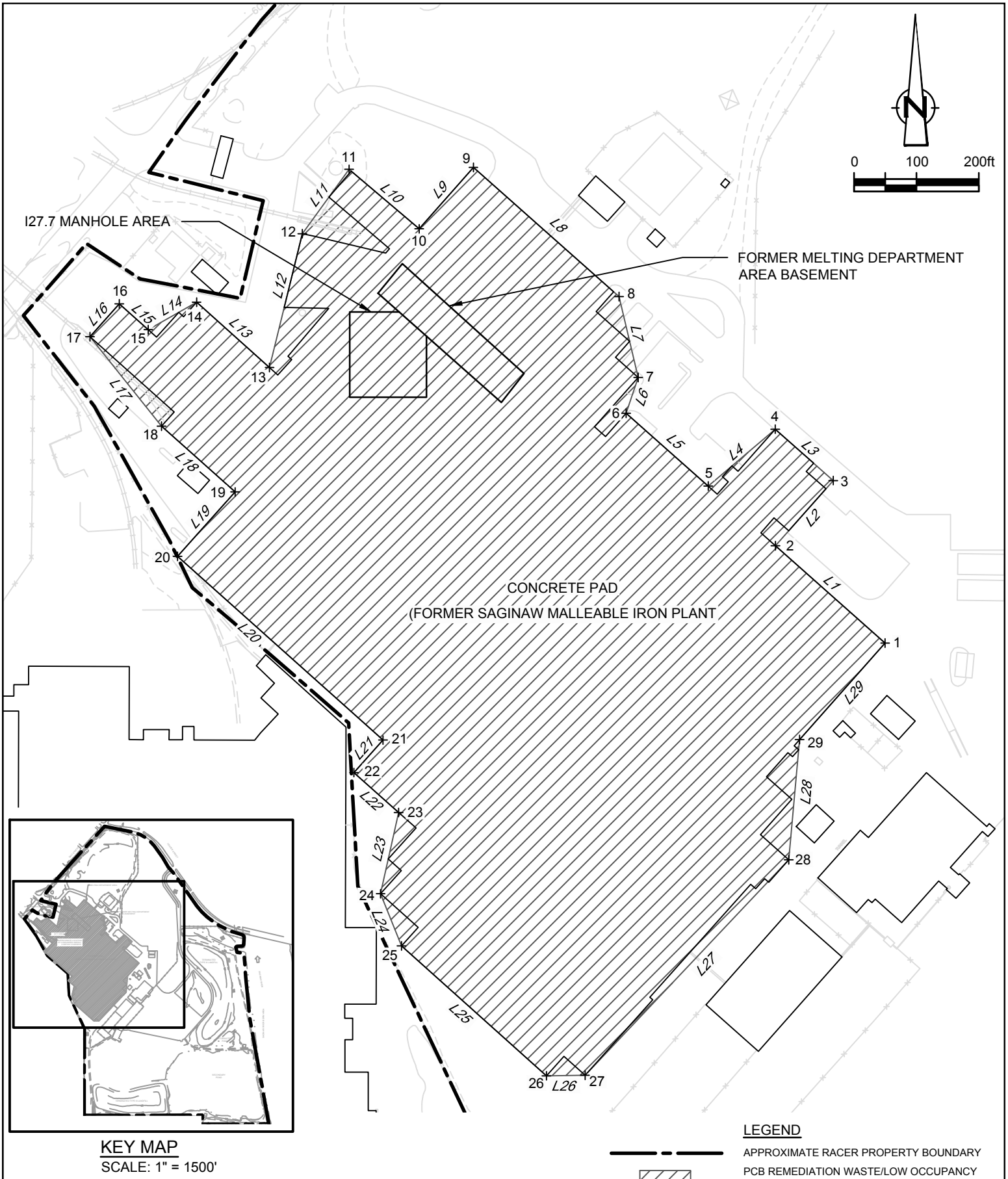
Hole designation: C3
Date/Time started: 2-7-17
Date/Time completed: 2-7-17
Drilling method: Geoprobe.
GHD supervisor: S. Kippen

Stratigraphic Intervals (Depths in ft/m BGS)			Sample Description	Sample Details											
			Order of descriptors: Soil type symbol(s) - primary component(s), (nature of deposit), secondary components, relative density/consistency, grain size/plasticity, gradation/structure, colour, moisture content, supplementary descriptors.			Penetration Record Split Spoon Blows (Record N-Values & Recoveries)									
From	At	To	Note: Plasticity determination requires the addition of moisture if the sample is too dry to roll (indicate if moisture was added or not).	Sample Number	Sampling Method	6"	6"	6"	6"	N	R	Sample Interval	PID/FID (ppm)	Chemical Analysis	Grain Size/ Other Analysis
0		4.0	- Pea Stone -												
4.0		6.0'	- CL- silty clay, very stiff, Low plast, mottled Lt Brown/Lt. gray moist.									Sample 4.5' to 5.0' @ 12:50 (-007)			

Notes and Comments

Depth of borehole caving _____ Depth of first groundwater encounter _____ Topsoil thickness _____
Water level in open borehole on completion _____ After _____ Hours _____
Notes: _____

Appendix H
Draft DRC Exhibits - PCBs



KEY MAP
SCALE: 1" = 1500'

LEGEND

APPROXIMATE RACER PROPERTY BOUNDARY

PCB REMEDIATION WASTE/LOW OCCUPANCY AREA AS DEFINED IN 40 CFR 761.61

SEE FOLLOWING PAGE FOR COORDINATES AND BEARING/DISTANCES.

GHD

6A

NOTE:
MICHIGAN SOUTH STATE PLANE COORDINATE SYSTEM
NAD 83, IN U.S. INTERNATIONAL FEET.

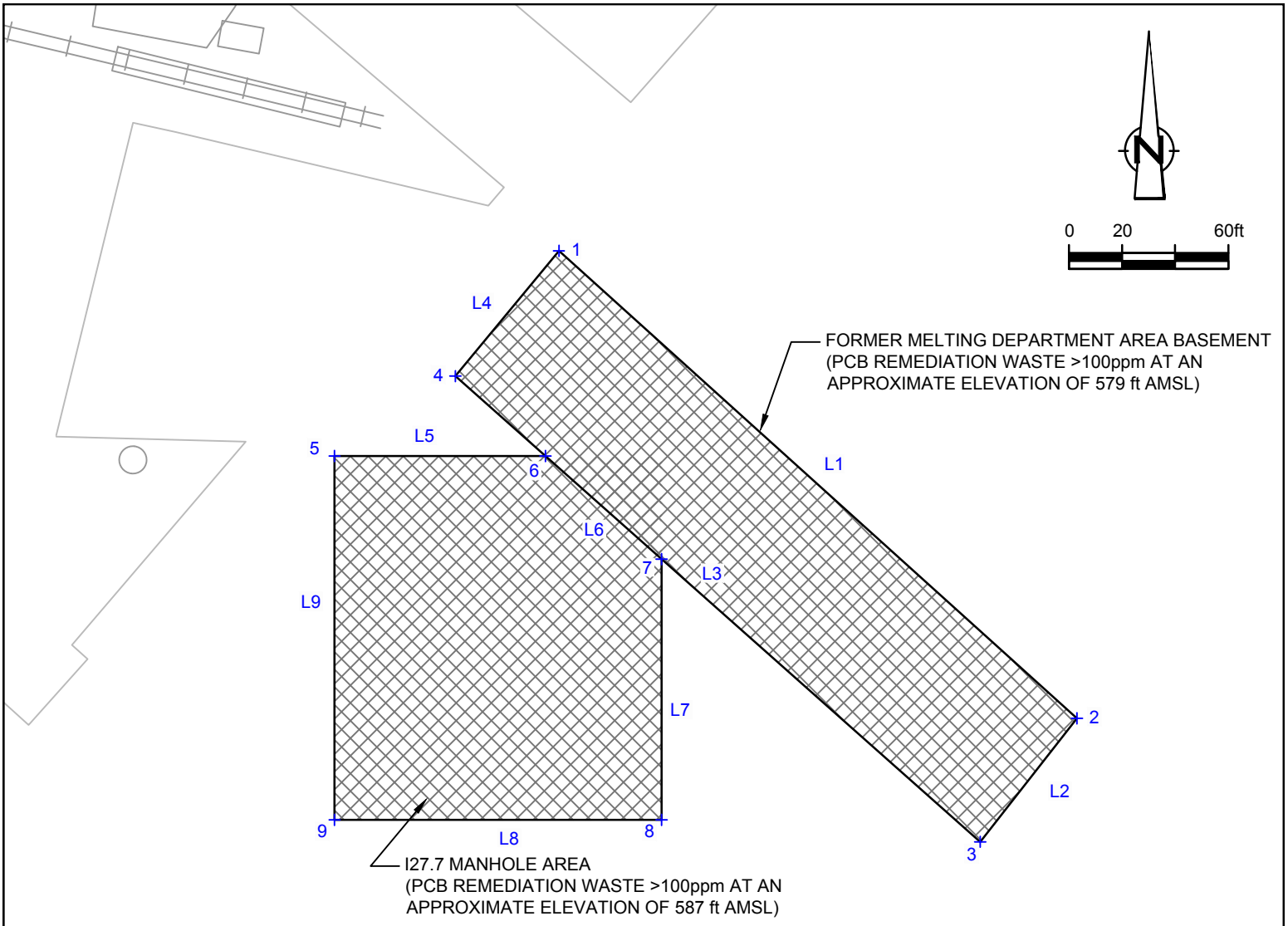
1	X=13228315.53, Y=692952.25
L1	N 48d26'2" W @ 235.04
2	X=13228139.6732, Y=693108.1964
L2	N 41d34'1" E @ 139.64
3	X=13228232.3224, Y=693212.6712
L3	N 48d26'16" W @ 124.10
4	X=13228139.47, Y=693295
L4	S 49d42'43" W @ 140.98
5	X=13228031.9282, Y=693203.8361
L5	N 48d25'57" W @ 175.91
6	X=13227900.32, Y=693320.55
L6	N 18d34'11" E @ 60.51
7	X=13227919.59, Y=693377.91
L7	N 13d17'41" W @ 133.14
8	X=13227888.9743, Y=693507.4776
L8	N 48d26'3" W @ 312.02
9	X=13227655.52, Y=693714.5
L9	S 41d22'59" W @ 131.25
10	X=13227568.75, Y=693616.02
L10	N 49d44'5" W @ 147.43
11	X=13227456.2498, Y=693711.3099
L11	S 36d1'13" W @ 127.35
12	X=13227381.36, Y=693608.31
L12	S 13d46'37" W @ 220.95
13	X=13227328.7435, Y=693393.7194
L13	N 48d10'57" W @ 156.95
14	X=13227211.77, Y=693498.37
L14	S 60d24'37" W @ 88.99
15	X=13227134.3878, Y=693454.4292

L15	N 48d11'3" W @ 62.21
16	X=13227088.02, Y=693495.91
L16	S 41d49'2" W @ 70.69
17	X=13227040.89, Y=693443.23
L17	S 38d41'3" E @ 183.58
18	X=13227155.63, Y=693299.93
L18	S 48d10'50" E @ 158.28
19	X=13227273.59, Y=693194.39
L19	S 48d10'50" E @ 138.29
20	X=13227181.38, Y=693091.33
L20	S 48d10'52" E @ 441.78
21	X=13227510.62, Y=692796.76
L21	S 41d49'23" W @ 69.79
22	X=13227464.08, Y=692744.75
L22	S 48d10'50" E @ 96.02
23	X=13227535.6367, Y=692680.7275
L23	S 12d30'17" W @ 133.41
24	X=13227506.75, Y=692550.48
L24	S 21d47'44" E @ 90.04
25	X=13227540.18, Y=692466.88
L25	S 48d10'56" E @ 312.09
26	X=13227772.77, Y=692258.79
L26	N 89d18'49" E @ 61.77
27	X=13227834.54, Y=692259.53
L27	N 43d24'21" E @ 475.30
28	X=13228161.15, Y=692604.84
L28	N 5d7'3" E @ 193.57
29	X=13228178.416, Y=692797.6396
L29	N 41d34'4" E @ 206.65

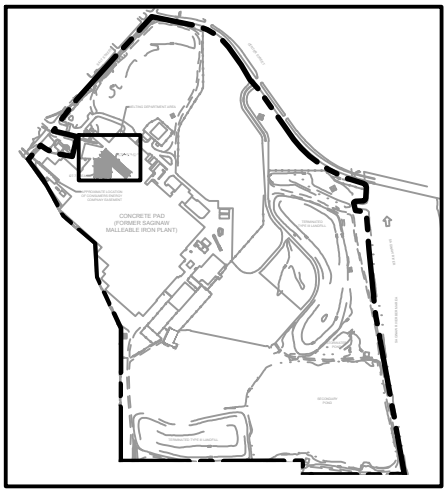


6A

NOTE:
MICHIGAN SOUTH STATE PLANE COORDINATE SYSTEM
NAD 83, IN U.S. INTERNATIONAL FEET.



1	X = 13227541.65, Y = 693560.1
L1	S 47d57'17 E @262.57
2	X = 13227736.64, Y = 693384.26
L2	S 38d5'5 W @ 59.01
3	X = 13227700.24, Y = 693337.81
L3	N 48d26'3 W @ 264.00
4	X = 13227502.72, Y = 693512.97
L4	N 39d33'39 E @ 61.14
5	X = 13227457.24, Y = 693482.93
L5	E @ 79.35
6	X = 13227536.59, Y = 693482.93
L6	S 48d26'3 E @ 58.48
7	X = 13227580.34, Y = 693444.13
L7	S @ 98.08
8	X = 13227580.34, Y = 693346.05
L8	W @ 123.10
9	X = 13227457.24, Y = 693346.05
L9	N @ 136.88



KEY MAP
SCALE: 1" = 1500'

LEGEND

EXTENT OF PCB REMEDIATION WASTE >100ppm

NOTE:
MICHIGAN SOUTH STATE PLANE COORDINATE SYSTEM
NAD 83, IN U.S. INTERNATIONAL FEET.

GHD

6B

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