



This document is in draft form. A final version of this document may differ from this draft. As such, the contents of this draft document shall not be relied upon. GHD disclaims any responsibility or liability arising from decisions made based on this draft document.



HPT Investigation Report

Revitalizing Auto Communities Environmental Response Trust
Toledo 103C Landfill



Table of Contents

1.	Introduction	1
1.1	General Overview.....	1
2.	Hydraulic Profiling Tool and Electrical Conductivity Discussion	1
2.1	Hydraulic Profiling Tool.....	1
2.2	Electrical Conductivity	3
3.	Scope of Work.....	3
3.1	HPT Boring Installation.....	3
3.2	Soil Boring Installation	3
3.3	Temporary Groundwater Well Installation	4
3.4	Collection and Analysis of Soil Samples	4
3.5	Collection and Analysis of Groundwater Samples	4
3.6	Deviations from the Scope of Work.....	4
4.	Results.....	5
4.1	HPT Results.....	5
4.2	Soil Sample Results	5
4.3	Groundwater Sample Results.....	6
5.	Summary and Conclusions.....	6

Figure Index

Figure 1	Site Location
Figure 2	Site Layout
Figure 3	Soil Sample Results
Figure 4	Groundwater Sample Results

Table Index

Table 1	Soil Sample Collection and Analysis Summary
Table 2	Soil Analytical Results
Table 3	Groundwater Analytical Results



Appendix Index

Appendix A	High Resolution Site Characterization Report – HPT Investigation
Appendix B	Soil Stratigraphic Logs
Appendix C	Laboratory Analytical Results
Appendix D	Data Validation Memo



1. Introduction

GHD Services Inc. (GHD) is providing this report to present the results from the Hydraulic Profiling Tool (HPT) investigation conducted at the Revitalizing Auto Communities Environmental Response (RACER) Trust property (site) located in Toledo, Ohio. The HPT Investigation was conducted per the U.S. EPA's request and based upon discussions with RACER. GHD was retained to collect HPT data in order to identify additional permeable areas around the Former Disposal Area (FDA) and Former Stormwater Pond (FSP) which could be used to install new monitoring wells. In addition, soil and groundwater samples were collected during the HPT investigation in order to determine if exceedances to the screening levels were present outside the engineered caps of the FDA and FSP. See Figure 1 for Site location map.

1.1 General Overview

RACER Trust has entered into a Performance-based Voluntary Agreement for the site with U.S. EPA Region 5. GHD has been retained by RACER to prepare this document to describe the activities conducted during the HPT investigation.

The site is located at 1455 W. Alexis Road immediately south of the General Motors, LLC facility in Toledo, Lucas County, Ohio. The Site consists of approximately 33 acres as shown in Figure 1. The Site is bounded by the GM plant to the north, by railroad to the east, wooded area to the south, and a recreational area to the west. The Site includes areas adjacent to Silver Creek and its tributary ditches and is zoned industrial.

The United States government originally built the adjacent industrial plant in 1941. GM Corporation acquired the plant and surrounding land in 1956. In 1999, the 33 acres south of the plant were transferred to Remediation and Liability Management Co., Inc. (REALM) a wholly owned subsidiary of General Motors Corporation. Following the settlement of bankruptcy of General Motors Corporation, RACER Properties, LLC acquired the site as part of the formation of the RACER Trust on March 31, 2011.

2. Hydraulic Profiling Tool and Electrical Conductivity Discussion

2.1 Hydraulic Profiling Tool

The Hydraulic Profiling Tool (HPT) is a logging tool that measures the pressure required to inject a flow of water into the soil as the probe is advanced into the subsurface. The injection pressure log is an indicator of formation permeability. In addition to measurement of injection pressure, the HPT can also be used to measure hydrostatic pressure in the saturated zone under the zero flow condition. This allows the development of a hydrostatic pressure graph for the log and prediction of the position of the water table.



The probe is advanced into the ground at a rate of approximately 2 cm/sec. The pump in the HPT flow module draws water from the supply tank and pumps water down the trunk line at a constant flow rate (250-mL/min). An inline flow meter measures the flow rate. The downhole pressure sensor monitors the pressure generated by injecting water into the formation matrix. The HPT probe also includes a Wenner type electrical resistivity array for measurement of soil electrical conductivity (EC) as the probe is advanced to depth. The HPT log provides graphs of the electrical conductance, HPT pressure and flow rate versus depth.

Prior to running an HPT log, quality assurance (QA) tests are run on the Wenner array and pressure sensor. The results of the QA tests are saved in an information file for later review and reporting. The Wenner array electrodes are placed on a test jig and the test load is used to verify the electrical continuity and isolation of the EC system. Next, a reference test is performed on the pressure sensor. This is accomplished by submerging the HPT probe a specified depth below the water level in a reference tube. A two-step test enables the operator to verify that the pressure sensor is providing the correct measurement for a defined length of water column. If the result is more than $\pm 10\%$ out of range, the transducer fails the QA test. At completion of the field boring, another QA test is performed to verify proper probe performance during the logging event.

The HPT pressure log reveals observed pressure depending on the characteristics of the soil or sediment penetrated. It is apparent that higher pressure resulting from the injection of water into a sediment at a given flow rate (resistance to injection) indicates lower permeability and conversely, that lower pressure from injection of water at a given flow rate indicates higher permeability. This simple relationship allows the evaluation of changes in relative permeability of soils and sediments in an HPT log by reviewing the pressure versus depth log.

High EC readings (often indicative of clay-rich materials) in general correlate with high pressure readings and conversely low EC readings (often indicative of resistive, sand-rich materials) usually correlate with low pressure readings. However, pressure plots frequently reveal hydraulic behavior of the soil not observed by the EC, and the EC may display responses associated with mineralogy and chemical conductance not observed by the pressure plot (e.g. high total dissolved solids causing high electrical conductivity). Another important feature of the HPT pressure log is the increase in hydrostatic pressure as the probe is advanced below the water table. The increase in hydrostatic pressure results in a "rising baseline" on the pressure log. To obtain a quantitative determination of the local static water level a pressure dissipation test must be performed during the logging operation. To perform the dissipation test the advancement of the probe is halted and the operator starts a time log. Water flow is turned off to observe and record the dissipation of the HPT pressure versus time, until pressure stabilizes. The stabilized pressure is the absolute hydrostatic pressure at the depth of the test. Knowing the depth of the test, the absolute hydrostatic pressure and the atmospheric pressure the static water level may be calculated. Multiple dissipation tests may be performed at different depths during a single log to evaluate variations in piezometric head with depth and local vertical gradients in the aquifer.

The dissipation test data can be used in conjunction with the pressure and flow logs to estimate hydraulic conductivity (K) for the entire log after logging is completed. From Darcy's Law, K is proportional to the flow rate (Q) divided by the pressure (P) required to induce that flow rate in the given sediment or soil. The raw HPT pressure provided by the HPT log is the total pressure observed at the depth where the water is injected. This total pressure includes the ambient



atmospheric pressure at the time of the log, the local hydrostatic pressure and the pressure required to inject the fluid into the formation:

$$P \text{ (total)} = P \text{ (atm)} + P \text{ (hydro)} + P \text{ (inj)}$$

As discussed above, the atmospheric pressure is determined from the pre and post log response tests and the hydrostatic pressure is defined by one or more dissipation tests obtained as the log is produced. The actual injection pressure [$P_{inj} = P_{total} - (P_{hydro} + P_{atm})$] that was required to inject the water into the formation is calculated for each depth increment of the log. The actual injection pressure (P_{inj}) and the measured flow rate (Q) are then used to model an estimated K value for each depth increment of the HPT log (Geoprobe 2010b).

2.2 Electrical Conductivity

Electrical Conductivity (EC) is a measure of the soil's ability to conduct an electrical current using the Wenner array of the HPT/EC probe. Conductivity is the reciprocal of electrical resistivity and has the units (in our application) of millisiemens per meter (mS/m). Since soil is in the pathway of the charge flow, the grain size can be determined by comparing the EC log to a soil boring. Conductivity readings in the 100s indicate smaller grain (such as clay). Larger grain size (sand and gravels) are typically in the 10s of mS/m range. Prior to every log, the Wenner array of the HPT probe is checked for proper operation by performing a conductivity test with a Wenner array test jig. The probe is put through a check of isolation and continuity.

3. Scope of Work

The scope of work for this investigation included the soil boring staking and utility clearance, HPT boring completion, temporary monitoring well installation, and collection and analysis of soil and groundwater samples. These specific activities, including any deviations from the scope of work, are discussed in the following paragraphs.

3.1 HPT Boring Installation

Dakota Technologies (Dakota), with GHD oversight, conducted the HPT investigation from July 31 through August 4, 2017. In total, 11 HPT borings around the Former Disposal Area (FDA) and 6 HPT borings around the Former Stormwater Pond (FSP) were completed utilizing direct push technology. The HPT borings were spaced so as to provide complete coverage of the FDA and FSP. The maximum HPT boring depth ranged from 20.4 to 25.6 feet below ground surface (bgs). Appendix A presents Dakota Technologies Investigation Report which includes the HPT boring logs.

3.2 Soil Boring Installation

Dakota installed 13 soil borings around the FDA and 6 soil borings around the FSP utilizing direct push technology. Each soil boring was placed adjacent to the HPT boring location (where applicable). Soil borings SB1-SB11 were installed to 20 feet bgs and soil borings SB12-SB19 were installed to 25 feet bgs. Appendix B presents the stratigraphic logs for all soil borings.



3.3 Temporary Groundwater Well Installation

GHD installed two temporary monitoring wells based on HPT data and presence of groundwater. The temporary monitoring wells were installed utilizing direct push technology. Each temporary well was completed in its own borehole within 5 feet of the HPT boring and consisted of a 1 inch diameter PVC well with a 5 foot long, 0.010 inch slotted screen. All new temporary monitoring wells were sampled and then abandoned within approximately 24-48 hours of installation.

One temporary well was installed near SB-11 and one temporary well was installed near SB-18. Temporary well TW-11 was screened from 9.5 to 14.5 feet bgs with an initial depth to groundwater at 13.93 feet bgs. TW-18 was screened from 20-25 feet bgs with an initial depth to groundwater at 24.53 feet bgs.

3.4 Collection and Analysis of Soil Samples

Soil samples were collected during the installation of each soil boring. Two soil samples were collected from various depths at each soil boring for a total of 41 (including QC samples). Soil samples were maintained and shipped via chain of custody protocols in an iced cooler to TestAmerica in North Canton, Ohio on a normal turnaround time (2 weeks). All soil samples were analyzed for Volatile Organic Compounds (VOCs) and Polychlorinated Biphenyls (PCBs). Direct push technology using 4 foot acetate liners was utilized to collect the soil samples. In addition, each soil sample was field screened using a photo ionization detector (PID). Samples with the highest PID readings were selected for laboratory analysis. Table 1 presents sample information including the depths at which each sample was collected.

3.5 Collection and Analysis of Groundwater Samples

Following installation of the temporary monitoring wells (TW-11 and TW-18), they were gauged for water levels and sampled for VOCs using low flow purge and sample techniques. Groundwater samples were maintained and shipped via chain of custody protocols in an iced cooler to TestAmerica in North Canton, Ohio on a normal turnaround time (2 weeks).

In addition, two borehole water samples were collected from SB-13 and SB-14 respectively. These samples were also analyzed for VOCs at TestAmerica in North Canton, Ohio.

3.6 Deviations from the Scope of Work

The original scope of work called for the collection of two soil samples per borehole to be analyzed for VOCs and PCBs and the collection of up to three vertical aquifer profile (VAP) samples per borehole/temporary well to be analyzed for VOCs and PCBs. Deviations from the scope of work included the following.

- Due to extremely low groundwater levels at the time, VAP sampling was not conducted.
- Due to little to no recharge in borehole/temporary wells only VOCs were collected for groundwater samples.
- Only 3 groundwater samples were collected (out of a maximum of 54). Due to the limited recharge, the collection of groundwater samples was limited to only VOCs.



- Temporary well TW-18 was not sampled as the well went dry and did not recharge.
- HPT was not performed at SB-18 and SB-19 due to thick vegetation that would not allow the support vehicle access to the work area.

4. Results

4.1 HPT Results

Dissipation tests were performed at each boring location for calculating static water levels and hydraulic conductivity (estimated K) plots. The calculated estimated K values assume dissipation tests reached equilibrium. Only one of the borings, HPT-01, completely dissipated and reached equilibrium. Therefore, the estimated hydraulic conductivity (K) could not be calculated. Data logs for electrical conductivity, HPT maximum pressure, and HPT maximum flow rate are included in Appendix A.

Due to extremely dry and very tight soil conditions at the time of installation, the HPT data does not provide significant information as to the presence of additional permeable zones around the FDA and FSP. Generally speaking, if the HPT plots show decreasing pressure and increasing flow rate, an area of higher permeability is present. However, the HPT plots for the site do not reflect this. In comparison, the HPT plots support the soil boring logs which indicate most of the site contains tight soil conditions (clay/silty clay).

4.2 Soil Sample Results

All soil samples were analyzed for VOCs and PCBs. All soil analytical results were compared to either U.S. EPA Region 4 screening values or U.S. EPA Region 5 ecological screening levels. Refer to Table 2 for soil analytical results and screening levels. Laboratory analytical reports are included in Appendix C and a data validation memo is included in Appendix D.

Soil samples collected from SB-07, SB-11, and SB-15 exceeded the applicable screening criteria for soils.

- SB-07 had a maximum concentration for cis-1,2-Dichloroethene of 0.89 mg/kg at 15 feet bgs and a maximum concentration for vinyl chloride of 0.17 mg/kg at 15 feet bgs.
- SB-11 had a maximum concentration for PCB Aroclor-1254 of 0.042 mg/kg at 5 feet bgs and a maximum concentration for trichloroethene of 0.13 mg/kg at 12.5 feet bgs.
- SB-15 had a maximum concentration for PCB Aroclor-1248 of 16 mg/kg at 14.2 feet bgs and a maximum concentration for total xylenes of 0.14 mg/kg at 14.2 feet bgs.

In the case of SB-15, GHD believes that this soil boring was inadvertently installed inside the capped area of the FSP. GHD believes this is probable due to; 1) as-built drawings for the FSP do not provide a well defined "edge" to the synthetic liner cap and 2) PCB Aroclor-1248 was the only Aroclor detected in historical investigations of the FSP (Summary of Site Investigations, CRA 12/2000).



4.3 Groundwater Sample Results

Groundwater samples were only analyzed for VOCs due to little to no recharge in the borehole/temporary wells. All groundwater analytical results were screened against applicable Ohio Surface Water Criteria as has been the case for all semi-annual groundwater sampling events conducted previously. Refer to Table 3 for groundwater analytical results and screening levels. Laboratory analytical reports are included in Appendix C and a data validation memo is included in Appendix D.

No groundwater analytical results exceeded the applicable Ohio Surface Water Criteria.

5. Summary and Conclusions

Based upon the results of the HPT and soil boring investigation, it is concluded that the site contains tight soil conditions (clay/silty clay) which do not present significant water bearing zones. This conclusion is backed up by the HPT logs which do not show any areas of decreasing pressure and increasing flow which would indicate an area of higher permeability and the soil boring logs which indicate mostly tight soil conditions. Therefore, the HPT data does not show any areas where new monitoring wells should be installed.

Three of the 19 soil boring locations reported exceedances to PCBs and/or VOCs. SB-07 and SB-11 reported relatively minor exceedances to the screening levels. However, SB-15 reported PCB Aroclor 1248 well above the screening levels in the 14 to 18 feet bgs sample intervals. As discussed in Section 4.2 GHD believes that SB-15 was accidentally installed into the FSP and the samples were collected from the waste material under the FSP cap.

In order to determine if SB-15 was, in fact, installed into the FSP, GHD will hand excavate to the top of the cap and perform a visual inspection. If SB-15 did pierce the synthetic liner cap GHD will perform repairs to the cap before backfilling the excavation.

Four groundwater samples were collected during this investigation. No exceedances to the screening levels were reported for any groundwater samples.



All of Which is Respectfully Submitted,

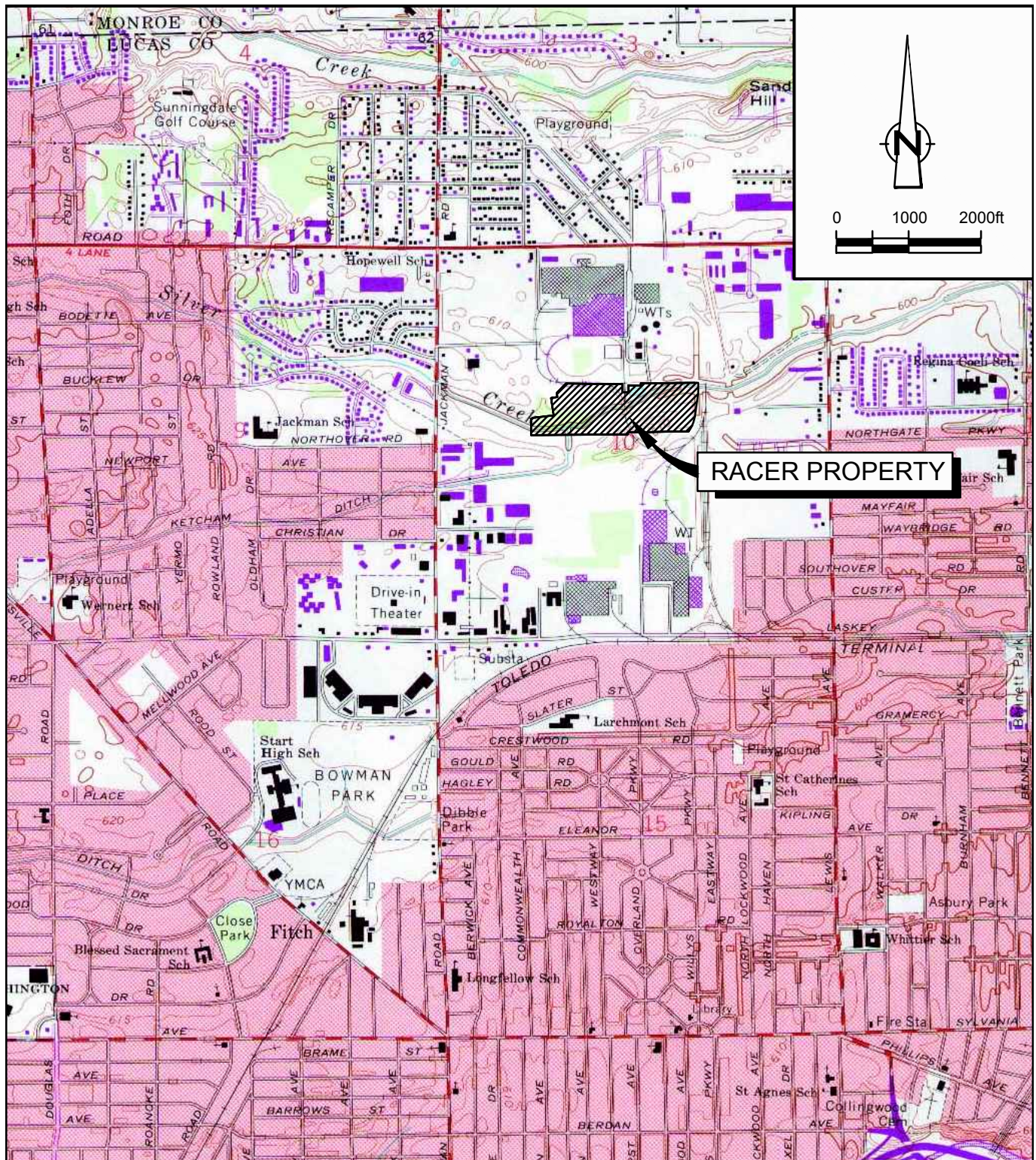
GHD

Andrew LaVine

Project Manager

Tom Kinney

Associate

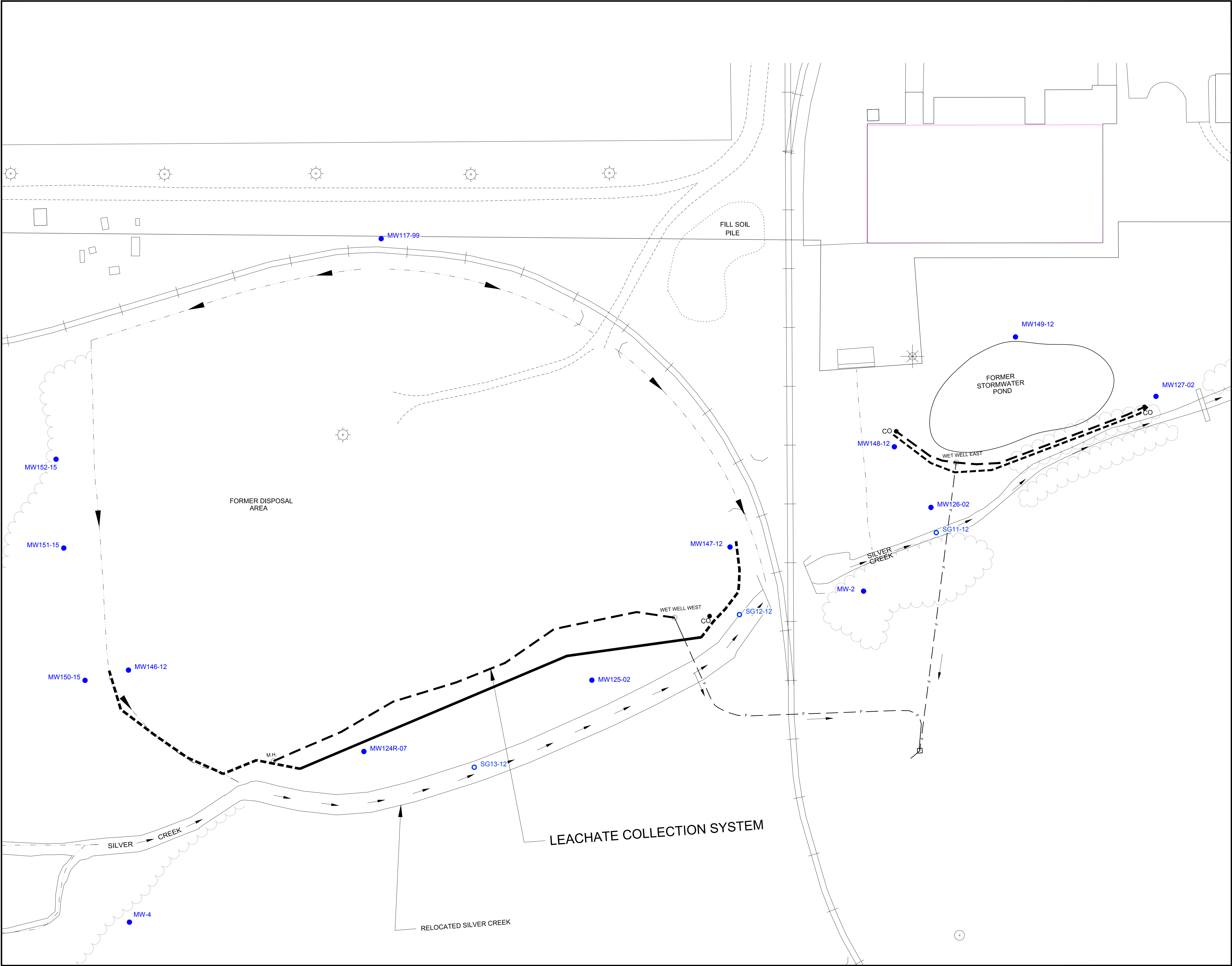


SOURCE: USGS QUADRANGLE MAP:
TOLEDO, OHIO-MICHIGAN

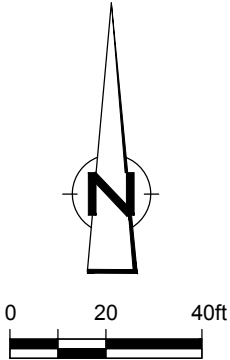
figure 1

SITE LOCATION
RACER SITE 1099, TOLEDO 103C LANDFILL
Toledo, Ohio





No	Revision	Date	Initial



- LEGEND
- MW127-02 MONITORING WELL LOCATIONS
 - STAFF GAUGE LOCATIONS
 - ~~~~~ TREE LINE
 - SILVER CREEK
 - LEACHATE COLLECTION SYSTEM
 - M.H. MANHOLE
 - CO CLEANOUT
 - WET WELL WET WELL
 - SHEET PILE WALL
 - F FORCEMAIN

SCALE VERIFICATION

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



Approved

DRAWING STATUS

Status	Date	Initial

SITE LAYOUT

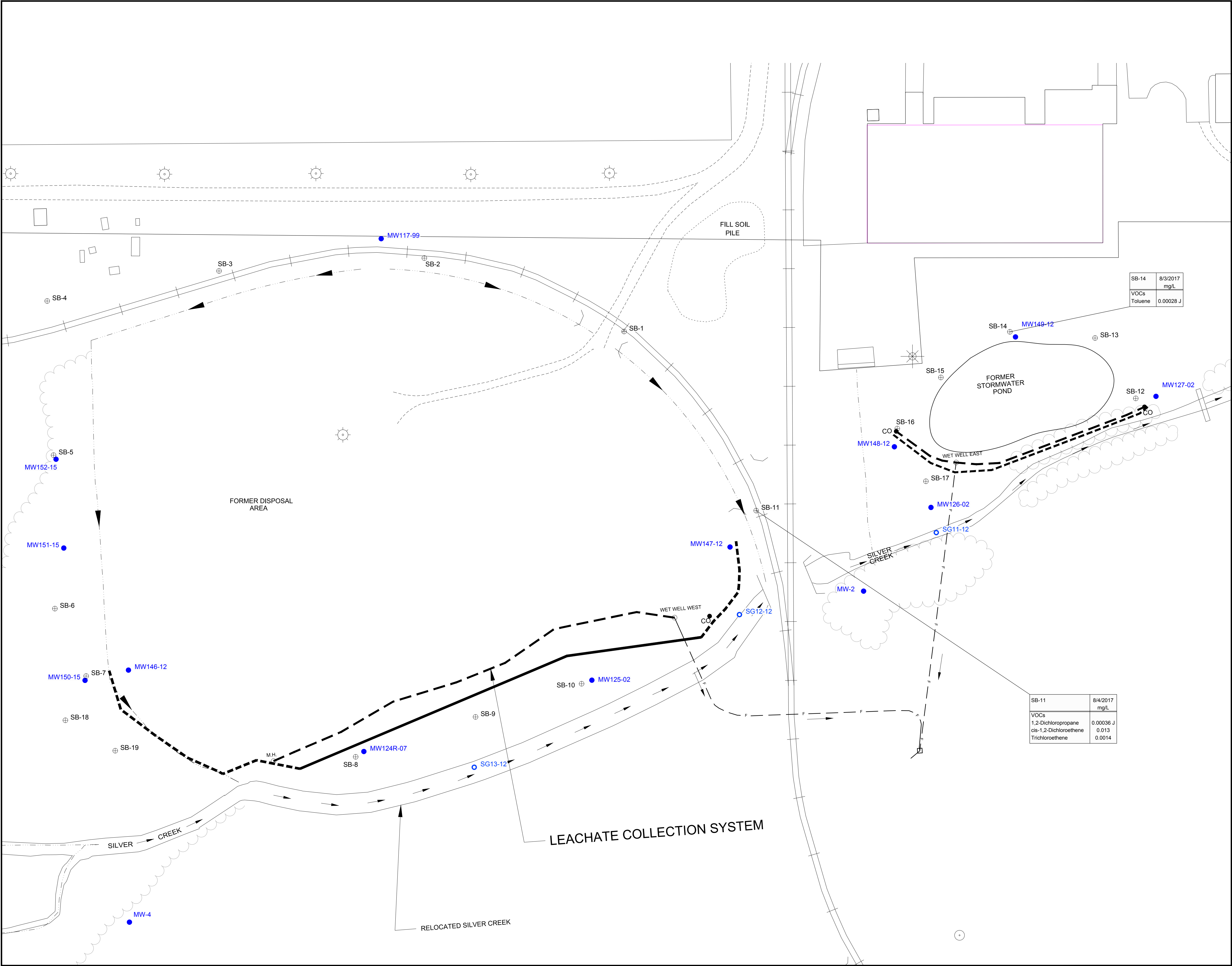
TOLEDO, OHIO

RACER PROPERTY

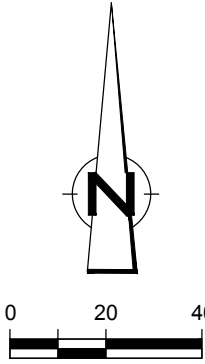


Source Reference:

Project Manager: A. L.	Reviewed By: A. L.	Date: OCTOBER 2017
Scale: 1:40'	Project N°: 012609-T01	Report N°: 032
		Drawing N°: figure 2



No	Revision	Date	Initial



LEGEND

MW127-02

●

○

—

M.H.

○

CO

○

WET WELL

○

—

F

⊕

MONITORING WELL LOCATIONS

STAFF GAUGE LOCATIONS

TREE LINE

SILVER CREEK

LEACHATE COLLECTION SYSTEM

MANHOLE

CLEANOUT

WET WELL

SHEET PILE WALL

FORCEMAIN

HPT SAMPLING LOCATION

	IMZM WQC	HH Non-Drinking Water WQC
Volatile Organic Compounds (VOCs) (mg/L)		
1,2-Dichloropropane	6.5	0.29
cis-1,2-Dichloroethene	18	36
Toluene	1.1	51
Trichloroethene	4.0	148

IMZM WQC

HH Non-Drinking Water WQC

Notes:
U - Not detected at the associated reporting limit.
J - Estimated concentration.

SCALE VERIFICATION

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

Approved

DRAWING STATUS		
Status	Date	Initial

GROUNDWATER SAMPLE RESULTS

TOLEDO, OHIO

RACER PROPERTY

Source Reference:

Project Manager:
A. L.

Reviewed By:
A. L.

Date:
OCTOBER 2017

Scale:
1:40'

Project N°:
012609-T01

Report N°:
032

Drawing N°:
figure 4

Table 1

**Soil Sample Collection and Analysis Summary
Leachate Shutdown HPT Sampling
Racer 103C Landfill
RACER Trust
Toledo, Ohio**

Sample Identification	Location	Matrix	Start Depth (ft bgs)	End Depth (ft bgs)	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	<u>Analysis/Parameters</u>	
							VOCs	PCBs
S-12609-073117-SK-001	SB-1	Soil	4.5	4.5	07/31/2017	12:00	X	X
S-12609-073117-SK-002	SB-1	Soil	7.1	7.1	07/31/2017	12:20	X	X
S-12609-073117-SK-003	SB-2	Soil	4.5	4.5	07/31/2017	14:30	X	X
S-12609-073117-SK-004	SB-2	Soil	10	10	07/31/2017	14:55	X	X
S-12609-073117-SK-005	SB-3	Soil	5	5	07/31/2017	15:55	X	X
S-12609-073117-SK-006	SB-3	Soil	7.5	7.5	07/31/2017	16:05	X	X
S-12609-073117-SK-007	SB-4	Soil	2.5	2.5	07/31/2017	17:05	X	X
S-12609-073117-SK-008	SB-4	Soil	10	10	07/31/2017	17:10	X	X
S-12609-080117-SK-009	SB-5	Soil	4.5	4.5	08/01/2017	09:45	X	X
S-12609-080117-SK-010	SB-5	Soil	15	15	08/01/2017	09:50	X	X
S-12609-080117-SK-011	SB-5	Soil	15	15	08/01/2017	09:55	X	X
S-12609-080117-SK-012	SB-6	Soil	7.5	7.5	08/01/2017	10:55	X	X
S-12609-080117-SK-013	SB-6	Soil	20	20	08/01/2017	11:00	X	X
S-12609-080117-SK-014	SB-7	Soil	10	10	08/01/2017	12:00	X	X
S-12609-080117-SK-015	SB-7	Soil	15	15	08/01/2017	12:05	X	X
S-12609-080117-SK-016	SB-8	Soil	2.5	2.5	08/01/2017	15:15	X	X
S-12609-080117-SK-017	SB-8	Soil	10	10	08/01/2017	15:20	X	X
S-12609-080117-SK-018	SB-9	Soil	2.5	2.5	08/01/2017	16:20	X	X
S-12609-080117-SK-019	SB-9	Soil	15	15	08/01/2017	16:25	X	X
S-12609-080117-SK-020	SB-10	Soil	5	5	08/01/2017	17:15	X	X
S-12609-080117-SK-021	SB-10	Soil	12.5	12.5	08/01/2017	17:20	X	X
TB-12609-080117-SK	-	WGQ	-	-	08/01/2017	-	X	
S-12609-080217-SK-022	SB-11	Soil	5	5	08/02/2017	09:50	X	X
S-12609-080217-SK-023	SB-11	Soil	12.5	12.5	08/02/2017	09:55	X	X
S-12609-080217-SK-024	SB-12	Soil	5.5	5.5	08/02/2017	12:15	X	X
S-12609-080217-SK-025	SB-12	Soil	5.5	5.5	08/02/2017	12:20	X	X
S-12609-080217-SK-026	SB-12	Soil	18	18	08/02/2017	12:25	X	X
S-12609-080217-SK-027	SB-13	Soil	10	10	08/02/2017	14:50	X	X
S-12609-080217-SK-028	SB-13	Soil	15.5	15.5	08/02/2017	14:55	X	X
S-12609-080217-SK-029	SB-14	Soil	8	8	08/02/2017	16:00	X	X
S-12609-080217-SK-030	SB-14	Soil	14.5	14.5	08/02/2017	16:05	X	X

Table 1

**Soil Sample Collection and Analysis Summary
Leachate Shutdown HPT Sampling
Racer 103C Landfill
RACER Trust
Toledo, Ohio**

Sample Identification	Location	Matrix	Start Depth (ft bgs)	End Depth (ft bgs)	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	<u>Analysis/Parameters</u>	
							VOCs	PCBs
S-12609-080317-SK-031	SB-15	Soil	14.2	14.2	08/03/2017	09:55	X	X
S-12609-080317-SK-032	SB-15	Soil	3.5	3.5	08/03/2017	10:35	X	X
S-12609-080317-SK-033	SB-15	Soil	18	18	08/03/2017	10:45	X	X
S-12609-080317-SK-034	SB-16	Soil	7.5	7.5	08/03/2017	12:00	X	X
S-12609-080317-SK-035	SB-16	Soil	12.5	12.5	08/03/2017	12:05	X	X
S-12609-080317-SK-036	SB-17	Soil	10	10	08/03/2017	14:45	X	X
S-12609-080317-SK-037	SB-17	Soil	15	15	08/03/2017	14:50	X	X
S-12609-080317-SK-038	SB-18	Soil	7	7	08/03/2017	16:10	X	X
S-12609-080317-SK-039	SB-18	Soil	12.6	12.6	08/03/2017	16:15	X	X
S-12609-080317-SK-040	SB-19	Soil	7.5	7.5	08/03/2017	16:50	X	X
S-12609-080317-SK-041	SB-19	Soil	15	15	08/03/2017	16:55	X	X
TB-12609-080417-SK	-	WGQ	-	-	08/04/2017	-	X	

Notes:

- ft bgs - Feet below ground surface
- MS/MSD - Matrix Spike/Matrix Spike Duplicate
- PCBs - Polychlorinated Biphenyls
- VOCs - Volatile Organic Compounds
- - Not applicable

Table 2

Soil Analytical Results
RACER 103C Landfill
RACER Trust
Toledo, Ohio

Sample Location: Sample Identification: Sample Date: Sample Depth: Sample Type:				SB-01 S-12609-073117-SK-001 7/31/2017 (4.5-4.5) ft BGS	SB-01 S-12609-073117-SK-002 7/31/2017 (7.1-7.1) ft BGS	SB-10 S-12609-080117-SK-020 8/1/2017 (5-5) ft BGS	SB-10 S-12609-080117-SK-021 8/1/2017 (12.5-12.5) ft BGS	SB-11 S-12609-080217-SK-022 8/2/2017 (5-5) ft BGS	SB-11 S-12609-080217-SK-023 8/2/2017 (12.5-12.5) ft BGS
	Units	Screening Benchmark	Source						
PCBs									
Aroclor-1016 (PCB-1016)	mg/kg	1	USEPA 4	0.06 U	0.065 U	0.06 U	0.065 U	0.062 U	0.068 U
Aroclor-1221 (PCB-1221)	mg/kg			0.06 U	0.065 U	0.06 U	0.065 U	0.062 U	0.068 U
Aroclor-1232 (PCB-1232)	mg/kg			0.06 U	0.065 U	0.06 U	0.065 U	0.062 U	0.068 U
Aroclor-1242 (PCB-1242)	mg/kg	0.041	USEPA 4	0.06 U	0.065 U	0.06 U	0.065 U	0.062 U	0.068 U
Aroclor-1248 (PCB-1248)	mg/kg	0.0072	USEPA 4	0.06 U	0.065 U	0.06 U	0.065 U	0.062 U	0.068 U
Aroclor-1254 (PCB-1254)	mg/kg	0.014	USEPA 4	0.06 U	0.065 U	0.06 U	0.065 U	0.042 J	0.068 U
Aroclor-1260 (PCB-1260)	mg/kg	0.88	USEPA 4	0.06 U	0.065 U	0.06 U	0.065 U	0.062 U	0.068 U
Total PCBs	mg/kg	0.33	USEPA 4	ND	ND	ND	ND	0.042 J	ND
Volatile Organic Compounds (VOCs)									
1,1,1-Trichloroethane	mg/kg	0.04	USEPA 4	0.34 UJ	0.33 UJ	0.33 U	0.37 U	0.33 UJ	0.43 UJ
1,1,2,2-Tetrachloroethane	mg/kg	0.19	USEPA 4	0.34 UJ	0.33 UJ	0.33 U	0.37 U	0.33 UJ	0.43 UJ
1,1,2-Trichloroethane	mg/kg	0.32	USEPA 4	0.34 UJ	0.33 UJ	0.33 U	0.37 U	0.33 UJ	0.43 UJ
1,1-Dichloroethane	mg/kg	0.14	USEPA 4	0.34 UJ	0.33 UJ	0.33 U	0.37 U	0.33 UJ	0.43 UJ
1,1-Dichloroethene	mg/kg	0.04	USEPA 4	0.34 UJ	0.33 UJ	0.33 U	0.37 U	0.33 UJ	0.43 UJ
1,2,4-Trichlorobenzene	mg/kg	0.27	USEPA 4	0.34 UJ	0.33 UJ	0.33 U	0.37 U	0.33 UJ	0.43 UJ
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.0352	USEPA 5	0.69 UJ	0.66 UJ	0.65 U	0.74 U	0.66 UJ	0.86 UJ
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	1.23	USEPA 5	0.34 UJ	0.33 UJ	0.33 U	0.37 U	0.33 UJ	0.43 UJ
1,2-Dichlorobenzene	mg/kg	0.09	USEPA 4	0.34 UJ	0.33 UJ	0.33 U	0.37 U	0.33 UJ	0.43 UJ
1,2-Dichloroethane	mg/kg	0.4	USEPA 4	0.34 UJ	0.33 UJ	0.33 U	0.37 U	0.33 UJ	0.43 UJ
1,2-Dichloropropane	mg/kg	0.28	USEPA 4	0.34 UJ	0.33 UJ	0.33 U	0.37 U	0.33 UJ	0.43 UJ
1,3-Dichlorobenzene	mg/kg	0.1	USEPA 4	0.34 UJ	0.33 UJ	0.33 U	0.37 U	0.33 UJ	0.43 UJ
1,4-Dichlorobenzene	mg/kg	0.88	USEPA 4	0.34 UJ	0.33 UJ	0.33 U	0.37 U	0.33 UJ	0.43 UJ
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	1	USEPA 4	1.4 UJ	1.3 UJ	1.3 U	1.5 U	1.3 UJ	1.7 UJ
2-Hexanone	mg/kg	0.36	USEPA 4	1.4 UJ	1.3 UJ	1.3 U	1.5 U	1.3 UJ	1.7 UJ
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	443	USEPA 5	1.4 UJ	1.3 UJ	1.3 U	1.5 U	1.3 UJ	1.7 UJ
Acetone	mg/kg	1.2	USEPA 4	1.4 UJ	1.3 UJ	1.3 U	1.5 U	1.3 UJ	1.7 UJ
Benzene	mg/kg	0.12	USEPA 4	0.34 UJ	0.33 UJ	0.33 U	0.37 U	0.33 UJ	0.43 UJ
Bromodichloromethane	mg/kg	0.54	USEPA 5	0.34 UJ	0.33 UJ	0.33 U	0.37 U	0.33 UJ	0.43 UJ
Bromoform	mg/kg	0.07	USEPA 4	0.34 UJ	0.33 UJ	0.33 U	0.37 U	0.33 UJ	0.43 UJ
Bromomethane (Methyl bromide)	mg/kg	0.002	USEPA 4	0.34 UJ	0.33 UJ	0.33 U	0.37 U	0.33 UJ	0.43 UJ
Carbon disulfide	mg/kg	0.005	USEPA 4	0.34 UJ	0.33 UJ	0.33 U	0.37 U	0.33 UJ	0.43 UJ
Carbon tetrachloride	mg/kg	0.05	USEPA 4	0.34 UJ	0.33 UJ	0.33 U	0.37 U	0.33 UJ	0.43 UJ
Chlorobenzene	mg/kg	2.4	USEPA 4	0.34 UJ	0.33 UJ	0.33 U	0.37 U	0.33 UJ	0.43 UJ
Chloroethane	mg/kg			0.34 UJ	0.33 UJ	0.33 U	0.37 U	0.33 UJ	0.43 UJ
Chloroform (Trichloromethane)	mg/kg	0.05	USEPA 4	0.34 UJ	0.33 UJ	0.33 U	0.37 U	0.33 UJ	0.43 UJ
Chloromethane (Methyl chloride)	mg/kg	10.4	USEPA 5	0.34 UJ	0.33 UJ	0.33 U	0.37 U	0.33 UJ	0.43 UJ
cis-1,2-Dichloroethene	mg/kg	0.04	USEPA 4	0.34 UJ	0.33 UJ	0.33 U	0.37 U	0.33 UJ	0.43 UJ
cis-1,3-Dichloropropene	mg/kg	0.001	USEPA 4	0.34 UJ	0.33 UJ	0.33 U	0.37 U	0.33 UJ	0.43 UJ
Cyclohexane	mg/kg			0.69 UJ	0.66 UJ	0.65 U	0.74 U	0.66 UJ	0.86 UJ
Dibromochloromethane	mg/kg	102		0.34 UJ	0.33 UJ	0.33 U	0.37 U	0.33 UJ	0.43 UJ
Dichlorodifluoromethane (CFC-12)	mg/kg	39.5	USEPA 5	0.34 UJ	0.33 UJ	0.33 U	0.37 U	0.33 UJ	0.43 UJ
Ethylbenzene	mg/kg	0.27	USEPA 4	0.34 UJ	0.33 UJ	0.33 U	0.37 U	0.33 UJ	0.43 UJ
Isopropyl benzene	mg/kg	0.04	USEPA 4	0.34 UJ	0.33 UJ	0.33 U	0.37 U	0.33 UJ	0.43 UJ
Methyl acetate	mg/kg			0.12 J	0.15 J	0.11 J	0.11 J	1.7 UJ	2.2 UJ
Methyl cyclohexane	mg/kg			0.69 UJ	0.66 UJ	0.65 U	0.74 U	0.66 UJ	0.86 UJ
Methyl tert butyl ether (MTBE)	mg/kg	12.5	USEPA 4	0.34 UJ	0.33 UJ	0.33 U	0.37 U	0.33 UJ	0.43 UJ
Methylene chloride	mg/kg	0.21	USEPA 4	0.34 UJ	0.33 UJ	0.33 U	0.37 U	0.33 UJ	0.43 UJ
Styrene	mg/kg	1.2	USEPA 4	0.34 UJ	0.33 UJ	0.33 U	0.37 U	0.33 UJ	0.43 UJ
Tetrachloroethene	mg/kg	50	USEPA 4	0.34 UJ	0.33 UJ	0.33 U	0.37 U	0.33 UJ	0.43 UJ
Toluene	mg/kg	0.15	USEPA 4	0.34 UJ	0.33 UJ	0.33 U	0.37 U	0.33 UJ	0.43 UJ

Table 2

Soil Analytical Results
RACER 103C Landfill
RACER Trust
Toledo, Ohio

				SB-01	SB-01	SB-10	SB-10	SB-11	SB-11
Sample Location:				S-12609-073117-SK-001	S-12609-073117-SK-002	S-12609-080117-SK-020	S-12609-080117-SK-021	S-12609-080217-SK-022	S-12609-080217-SK-023
Sample Identification:				7/31/2017	7/31/2017	8/1/2017	8/1/2017	8/2/2017	8/2/2017
Sample Date:				(4.5-4.5) ft BGS	(7.1-7.1) ft BGS	(5-5) ft BGS	(12.5-12.5) ft BGS	(5-5) ft BGS	(12.5-12.5) ft BGS
Sample Depth:									
Sample Type:									
	Units	Screening Benchmark	Source						
trans-1,2-Dichloroethene	mg/kg	0.04	USEPA 4	0.34 UJ	0.33 UJ	0.33 U	0.37 U	0.33 UJ	0.43 UJ
trans-1,3-Dichloropropene	mg/kg	0.001	USEPA 4	0.34 UJ	0.33 UJ	0.33 U	0.37 U	0.33 UJ	0.43 UJ
Trichloroethene	mg/kg	0.06	USEPA 4	0.34 UJ	0.33 UJ	0.33 U	0.37 U	0.33 UJ	0.13 J
Trichlorofluoromethane (CFC-111)	mg/kg	52	USEPA 4	0.34 UJ	0.33 UJ	0.33 U	0.37 U	0.33 UJ	0.43 UJ
Trifluorotrichloroethane (CFC-113)	mg/kg			0.34 UJ	0.33 UJ	0.33 U	0.37 U	0.33 UJ	0.43 UJ
Vinyl chloride	mg/kg	0.03	USEPA 4	0.34 UJ	0.33 UJ	0.33 U	0.37 U	0.33 UJ	0.43 UJ
Xylenes (total)	mg/kg	0.1	USEPA 4	0.69 UJ	0.66 UJ	0.65 U	0.74 U	0.66 UJ	0.86 UJ

Notes:

U - Not detected at the associated reporting limit.

J - Estimated concentration.

UJ - Not detected; associated reporting limit is estimated.

Bold results indicate a detection

Boxed results indicate an exceedance of the screening benchmark

Table 2

Soil Analytical Results
RACER 103C Landfill
RACER Trust
Toledo, Ohio

Sample Location:	SB-12	SB-12	SB-12	SB-13	SB-13	SB-14	SB-14	SB-15
Sample Identification:	S-12609-080217-SK-024	S-12609-080217-SK-025	S-12609-080217-SK-026	S-12609-080217-SK-027	S-12609-080217-SK-028	S-12609-080217-SK-029	S-12609-080217-SK-030	S-12609-080317-SK-032
Sample Date:	8/2/2017	8/2/2017	8/2/2017	8/2/2017	8/2/2017	8/2/2017	8/2/2017	8/3/2017
Sample Depth:	(5.5-5.5) ft BGS	(5.5-5.5) ft BGS	(18-18) ft BGS	(10-10) ft BGS	(15.5-15.5) ft BGS	(8-8) ft BGS	(14.5-14.5) ft BGS	(3.5-3.5) ft BGS
Sample Type:		Duplicate						
PCBs	Units							
Aroclor-1016 (PCB-1016)	mg/kg	0.057 U	0.061 U	0.063 U	0.068 U	0.063 U	0.06 U	0.059 U
Aroclor-1221 (PCB-1221)	mg/kg	0.057 U	0.061 U	0.063 U	0.068 U	0.063 U	0.06 U	0.059 U
Aroclor-1232 (PCB-1232)	mg/kg	0.057 U	0.061 U	0.063 U	0.068 U	0.063 U	0.06 U	0.059 U
Aroclor-1242 (PCB-1242)	mg/kg	0.057 U	0.061 U	0.063 U	0.068 U	0.063 U	0.06 U	0.059 U
Aroclor-1248 (PCB-1248)	mg/kg	0.057 U	0.061 U	0.063 U	0.068 U	0.063 U	0.06 U	0.059 U
Aroclor-1254 (PCB-1254)	mg/kg	0.057 U	0.061 U	0.063 U	0.068 U	0.063 U	0.06 U	0.059 U
Aroclor-1260 (PCB-1260)	mg/kg	0.057 U	0.061 U	0.063 U	0.068 U	0.063 U	0.06 U	0.059 U
Total PCBs	mg/kg	ND	ND	ND	ND	ND	ND	1.6
Volatile Organic Compounds (VOCs)								
1,1,1-Trichloroethane	mg/kg	0.32 UJ	0.35 UJ	0.35 UJ	0.36 UJ	0.35 UJ	0.32 UJ	0.3 U
1,1,2,2-Tetrachloroethane	mg/kg	0.32 UJ	0.35 UJ	0.35 UJ	0.36 UJ	0.35 UJ	0.32 UJ	0.3 U
1,1,2-Trichloroethane	mg/kg	0.32 UJ	0.35 UJ	0.35 UJ	0.36 UJ	0.35 UJ	0.32 UJ	0.3 U
1,1-Dichloroethane	mg/kg	0.32 UJ	0.35 UJ	0.35 UJ	0.36 UJ	0.35 UJ	0.32 UJ	0.3 U
1,1-Dichloroethene	mg/kg	0.32 UJ	0.35 UJ	0.35 UJ	0.36 UJ	0.35 UJ	0.32 UJ	0.3 U
1,2,4-Trichlorobenzene	mg/kg	0.32 UJ	0.35 UJ	0.35 UJ	0.36 UJ	0.35 UJ	0.32 UJ	0.3 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.63 UJ	0.7 UJ	0.69 UJ	0.73 UJ	0.7 UJ	0.64 UJ	0.61 U
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	0.32 UJ	0.35 UJ	0.35 UJ	0.36 UJ	0.35 UJ	0.32 UJ	0.3 U
1,2-Dichlorobenzene	mg/kg	0.32 UJ	0.35 UJ	0.35 UJ	0.36 UJ	0.35 UJ	0.32 UJ	0.3 U
1,2-Dichloroethane	mg/kg	0.32 UJ	0.35 UJ	0.35 UJ	0.36 UJ	0.35 UJ	0.32 UJ	0.3 U
1,2-Dichloropropane	mg/kg	0.32 UJ	0.35 UJ	0.35 UJ	0.36 UJ	0.35 UJ	0.32 UJ	0.3 U
1,3-Dichlorobenzene	mg/kg	0.32 UJ	0.35 UJ	0.35 UJ	0.36 UJ	0.35 UJ	0.32 UJ	0.3 U
1,4-Dichlorobenzene	mg/kg	0.32 UJ	0.35 UJ	0.35 UJ	0.36 UJ	0.35 UJ	0.32 UJ	0.3 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	1.3 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.4 UJ	1.3 UJ	0.09 J
2-Hexanone	mg/kg	1.3 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.4 UJ	1.3 UJ	1.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	1.3 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.4 UJ	1.3 UJ	1.2 U
Acetone	mg/kg	1.3 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.4 UJ	1.3 UJ	1.2 U
Benzene	mg/kg	0.32 UJ	0.35 UJ	0.35 UJ	0.36 UJ	0.35 UJ	0.32 UJ	0.3 U
Bromodichloromethane	mg/kg	0.32 UJ	0.35 UJ	0.35 UJ	0.36 UJ	0.35 UJ	0.32 UJ	0.3 U
Bromoform	mg/kg	0.32 UJ	0.35 UJ	0.35 UJ	0.36 UJ	0.35 UJ	0.32 UJ	0.3 U
Bromomethane (Methyl bromide)	mg/kg	0.32 UJ	0.35 UJ	0.35 UJ	0.36 UJ	0.35 UJ	0.32 UJ	0.3 U
Carbon disulfide	mg/kg	0.32 UJ	0.35 UJ	0.35 UJ	0.36 UJ	0.35 UJ	0.32 UJ	0.3 U
Carbon tetrachloride	mg/kg	0.32 UJ	0.35 UJ	0.35 UJ	0.36 UJ	0.35 UJ	0.32 UJ	0.3 U
Chlorobenzene	mg/kg	0.32 UJ	0.35 UJ	0.35 UJ	0.36 UJ	0.35 UJ	0.32 UJ	0.3 U
Chloroethane	mg/kg	0.32 UJ	0.35 UJ	0.35 UJ	0.36 UJ	0.35 UJ	0.32 UJ	0.3 U
Chloroform (Trichloromethane)	mg/kg	0.32 UJ	0.35 UJ	0.35 UJ	0.36 UJ	0.35 UJ	0.32 UJ	0.3 U
Chloromethane (Methyl chloride)	mg/kg	0.32 UJ	0.35 UJ	0.35 UJ	0.36 UJ	0.35 UJ	0.32 UJ	0.3 U
cis-1,2-Dichloroethene	mg/kg	0.32 UJ	0.35 UJ	0.35 UJ	0.36 UJ	0.35 UJ	0.32 UJ	0.3 U
cis-1,3-Dichloropropene	mg/kg	0.32 UJ	0.35 UJ	0.35 UJ	0.36 UJ	0.35 UJ	0.32 UJ	0.3 U
Cyclohexane	mg/kg	0.63 UJ	0.7 UJ	0.69 UJ	0.73 UJ	0.7 UJ	0.64 UJ	0.61 U
Dibromochloromethane	mg/kg	0.32 UJ	0.35 UJ	0.35 UJ	0.36 UJ	0.35 UJ	0.32 UJ	0.3 U
Dichlorodifluoromethane (CFC-12)	mg/kg	0.32 UJ	0.35 UJ	0.35 UJ	0.36 UJ	0.35 UJ	0.32 UJ	0.3 U
Ethylbenzene	mg/kg	0.32 UJ	0.35 UJ	0.35 UJ	0.36 UJ	0.35 UJ	0.32 UJ	0.3 U
Isopropyl benzene	mg/kg	0.32 UJ	0.35 UJ	0.35 UJ	0.36 UJ	0.35 UJ	0.32 UJ	0.3 U
Methyl acetate	mg/kg	1.6 UJ	1.8 UJ	1.7 UJ	0.12 J	1.7 UJ	1.6 UJ	0.24 J
Methyl cyclohexane	mg/kg	0.63 UJ	0.7 UJ	0.69 UJ	0.73 UJ	0.7 UJ	0.64 UJ	0.61 U
Methyl tert butyl ether (MTBE)	mg/kg	0.32 UJ	0.35 UJ	0.35 UJ	0.36 UJ	0.35 UJ	0.32 UJ	0.3 U
Methylene chloride	mg/kg	0.32 UJ	0.35 UJ	0.35 UJ	0.36 UJ	0.35 UJ	0.32 UJ	0.3 U
Styrene	mg/kg	0.32 UJ	0.35 UJ	0.35 UJ	0.36 UJ	0.35 UJ	0.32 UJ	0.3 U
Tetrachloroethene	mg/kg	0.32 UJ	0.35 UJ	0.35 UJ	0.36 UJ	0.35 UJ	0.32 UJ	0.3 U
Toluene	mg/kg	0.32 UJ	0.35 UJ	0.35 UJ	0.36 UJ	0.35 UJ	0.32 UJ	0.3 U

Table 2

Soil Analytical Results
RACER 103C Landfill
RACER Trust
Toledo, Ohio

Sample Location:	SB-12	SB-12	SB-12	SB-13	SB-13	SB-14	SB-14	SB-15
Sample Identification:	S-12609-080217-SK-024	S-12609-080217-SK-025	S-12609-080217-SK-026	S-12609-080217-SK-027	S-12609-080217-SK-028	S-12609-080217-SK-029	S-12609-080217-SK-030	S-12609-080317-SK-032
Sample Date:	8/2/2017	8/2/2017	8/2/2017	8/2/2017	8/2/2017	8/2/2017	8/2/2017	8/3/2017
Sample Depth:	(5.5-5.5) ft BGS	(5.5-5.5) ft BGS	(18-18) ft BGS	(10-10) ft BGS	(15.5-15.5) ft BGS	(8-8) ft BGS	(14.5-14.5) ft BGS	(3.5-3.5) ft BGS
Sample Type:		Duplicate						
	Units							
trans-1,2-Dichloroethene	mg/kg	0.32 UJ	0.35 UJ	0.35 UJ	0.36 UJ	0.35 UJ	0.32 UJ	0.3 U
trans-1,3-Dichloropropene	mg/kg	0.32 UJ	0.35 UJ	0.35 UJ	0.36 UJ	0.35 UJ	0.32 UJ	0.3 U
Trichloroethene	mg/kg	0.32 UJ	0.35 UJ	0.35 UJ	0.36 UJ	0.35 UJ	0.32 UJ	0.3 U
Trichlorofluoromethane (CFC-11)	mg/kg	0.32 UJ	0.35 UJ	0.35 UJ	0.36 UJ	0.35 UJ	0.32 UJ	0.3 U
Trifluorotrichloroethane (CFC-113)	mg/kg	0.32 UJ	0.35 UJ	0.35 UJ	0.36 UJ	0.35 UJ	0.32 UJ	0.3 U
Vinyl chloride	mg/kg	0.32 UJ	0.35 UJ	0.35 UJ	0.36 UJ	0.35 UJ	0.32 UJ	0.3 U
Xylenes (total)	mg/kg	0.63 UJ	0.7 UJ	0.69 UJ	0.73 UJ	0.7 UJ	0.64 UJ	0.61 U

Notes:

U - Not detected at the associated reporting limit.

J - Estimated concentration.

UJ - Not detected; associated reporting limit is estimated.

Bold results indicate a detection

Boxed results indicate an exceedance of the screening benchmark

Table 2

Soil Analytical Results
RACER 103C Landfill
RACER Trust
Toledo, Ohio

Sample Location:	SB-15	SB-15	SB-16	SB-16	SB-17	SB-17	SB-18	SB-18
Sample Identification:	S-12609-080317-SK-031	S-12609-080317-SK-033	S-12609-080317-SK-034	S-12609-080317-SK-035	S-12609-080317-SK-036	S-12609-080317-SK-037	S-12609-080317-SK-038	S-12609-080317-SK-039
Sample Date:	8/3/2017	8/3/2017	8/3/2017	8/3/2017	8/3/2017	8/3/2017	8/3/2017	8/3/2017
Sample Depth:	(14.2-14.2) ft BGS	(18-18) ft BGS	(7.5-7.5) ft BGS	(12.5-12.5) ft BGS	(10-10) ft BGS	(15-15) ft BGS	(7-7) ft BGS	(12.6-12.6) ft BGS
Sample Type:								
Units								
PCBs								
Aroclor-1016 (PCB-1016)	mg/kg 1.3 U	1.3 U	0.057 U	0.066 U	0.064 U	0.063 U	0.06 U	0.062 U
Aroclor-1221 (PCB-1221)	mg/kg 1.3 U	1.3 U	0.057 U	0.066 U	0.064 U	0.063 U	0.06 U	0.062 U
Aroclor-1232 (PCB-1232)	mg/kg 1.3 U	1.3 U	0.057 U	0.066 U	0.064 U	0.063 U	0.06 U	0.062 U
Aroclor-1242 (PCB-1242)	mg/kg 1.3 U	1.3 U	0.057 U	0.066 U	0.064 U	0.063 U	0.06 U	0.062 U
Aroclor-1248 (PCB-1248)	mg/kg 16	14	0.057 U	0.066 U	0.064 U	0.063 U	0.06 U	0.062 U
Aroclor-1254 (PCB-1254)	mg/kg 1.3 U	1.3 U	0.057 U	0.066 U	0.064 U	0.063 U	0.06 U	0.062 U
Aroclor-1260 (PCB-1260)	mg/kg 1.3 U	1.3 U	0.057 U	0.066 U	0.064 U	0.063 U	0.06 U	0.062 U
Total PCBs	mg/kg 16	14	ND	ND	ND	ND	ND	ND
Volatile Organic Compounds (VOCs)								
1,1,1-Trichloroethane	mg/kg 0.34 U	0.4 U	0.32 U	0.39 U	0.33 U	0.36 U	0.35 U	0.33 U
1,1,2,2-Tetrachloroethane	mg/kg 0.34 U	0.4 U	0.32 U	0.39 U	0.33 U	0.36 U	0.35 U	0.33 U
1,1,2-Trichloroethane	mg/kg 0.34 U	0.4 U	0.32 U	0.39 U	0.33 U	0.36 U	0.35 U	0.33 U
1,1-Dichloroethane	mg/kg 0.34 U	0.4 U	0.32 U	0.39 U	0.33 U	0.36 U	0.35 U	0.33 U
1,1-Dichloroethene	mg/kg 0.34 U	0.4 U	0.32 U	0.39 U	0.33 U	0.36 U	0.35 U	0.33 U
1,2,4-Trichlorobenzene	mg/kg 0.34 U	0.4 U	0.32 U	0.39 U	0.33 U	0.36 U	0.35 U	0.33 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg 0.67 U	0.8 U	0.63 U	0.77 U	0.66 U	0.72 U	0.71 U	0.66 U
1,2-Dibromoethane (Ethylene dibromide)	mg/kg 0.34 U	0.4 U	0.32 U	0.39 U	0.33 U	0.36 U	0.35 U	0.33 U
1,2-Dichlorobenzene	mg/kg 0.051 J	0.4 U	0.32 U	0.39 U	0.33 U	0.36 U	0.35 U	0.33 U
1,2-Dichloroethane	mg/kg 0.34 U	0.4 U	0.32 U	0.39 U	0.33 U	0.36 U	0.35 U	0.33 U
1,2-Dichloropropane	mg/kg 0.34 U	0.4 U	0.32 U	0.39 U	0.33 U	0.36 U	0.35 U	0.33 U
1,3-Dichlorobenzene	mg/kg 0.34 U	0.4 U	0.32 U	0.39 U	0.33 U	0.36 U	0.35 U	0.33 U
1,4-Dichlorobenzene	mg/kg 0.34 U	0.4 U	0.32 U	0.39 U	0.33 U	0.36 U	0.35 U	0.33 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg 0.069 J	1.6 U	1.3 U	1.5 U	1.3 U	1.4 U	1.4 U	1.3 U
2-Hexanone	mg/kg 1.3 U	1.6 U	1.3 U	1.5 U	1.3 U	1.4 U	1.4 U	1.3 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg 1.3 U	1.6 U	1.3 U	1.5 U	1.3 U	1.4 U	1.4 U	1.3 U
Acetone	mg/kg 1.3 U	1.6 U	1.3 U	1.5 U	1.3 U	1.4 U	1.4 U	1.3 U
Benzene	mg/kg 0.34 U	0.4 U	0.32 U	0.39 U	0.33 U	0.36 U	0.35 U	0.33 U
Bromodichloromethane	mg/kg 0.34 U	0.4 U	0.32 U	0.39 U	0.33 U	0.36 U	0.35 U	0.33 U
Bromoform	mg/kg 0.34 U	0.4 U	0.32 U	0.39 U	0.33 U	0.36 U	0.35 U	0.33 U
Bromomethane (Methyl bromide)	mg/kg 0.34 U	0.4 U	0.32 U	0.39 U	0.33 U	0.36 U	0.35 U	0.33 U
Carbon disulfide	mg/kg 0.34 U	0.4 U	0.32 U	0.39 U	0.33 U	0.36 U	0.35 U	0.33 U
Carbon tetrachloride	mg/kg 0.34 U	0.4 U	0.32 U	0.39 U	0.33 U	0.36 U	0.35 U	0.33 U
Chlorobenzene	mg/kg 0.34 U	0.4 U	0.32 U	0.39 U	0.33 U	0.36 U	0.35 U	0.33 U
Chloroethane	mg/kg 0.34 U	0.4 U	0.32 U	0.39 U	0.33 U	0.36 U	0.35 U	0.33 U
Chloroform (Trichloromethane)	mg/kg 0.34 U	0.4 U	0.32 U	0.39 U	0.33 U	0.36 U	0.35 U	0.33 U
Chloromethane (Methyl chloride)	mg/kg 0.34 U	0.4 U	0.32 U	0.39 U	0.33 U	0.36 U	0.35 U	0.33 U
cis-1,2-Dichloroethene	mg/kg 0.34 U	0.4 U	0.32 U	0.39 U	0.33 U	0.36 U	0.35 U	0.33 U
cis-1,3-Dichloropropene	mg/kg 0.34 U	0.4 U	0.32 U	0.39 U	0.33 U	0.36 U	0.35 U	0.33 U
Cyclohexane	mg/kg 0.67 U	0.8 U	0.63 U	0.77 U	0.66 U	0.72 U	0.71 U	0.66 U
Dibromochloromethane	mg/kg 0.34 U	0.4 U	0.32 U	0.39 U	0.33 U	0.36 U	0.35 U	0.33 U
Dichlorodifluoromethane (CFC-12)	mg/kg 0.34 U	0.4 U	0.32 U	0.39 U	0.33 U	0.36 U	0.35 U	0.33 U
Ethylbenzene	mg/kg 0.34 U	0.4 U	0.32 U	0.39 U	0.33 U	0.36 U	0.35 U	0.33 U
Isopropyl benzene	mg/kg 0.34 U	0.4 U	0.32 U	0.39 U	0.33 U	0.36 U	0.35 U	0.33 U
Methyl acetate	mg/kg 0.19 J	2 U	1.6 U	1.9 U	1.6 U	1.8 U	1.8 U	1.7 U
Methyl cyclohexane	mg/kg 0.67 U	0.8 U	0.63 U	0.77 U	0.66 U	0.72 U	0.71 U	0.66 U
Methyl tert butyl ether (MTBE)	mg/kg 0.34 U	0.4 U	0.32 U	0.39 U	0.33 U	0.36 U	0.35 U	0.33 U
Methylene chloride	mg/kg 0.34 U	0.4 U	0.32 U	0.39 U	0.33 U	0.36 U	0.35 U	0.33 U
Styrene	mg/kg 0.34 U	0.4 U	0.32 U	0.39 U	0.33 U	0.36 U	0.35 U	0.33 U
Tetrachloroethene	mg/kg 0.34 U	0.4 U	0.32 U	0.39 U	0.33 U	0.36 U	0.35 U	0.33 U
Toluene	mg/kg 0.34 U	0.4 U	0.32 U	0.39 U	0.33 U	0.36 U	0.35 U	0.33 U

Table 2

Soil Analytical Results
RACER 103C Landfill
RACER Trust
Toledo, Ohio

Sample Location:	SB-15	SB-15	SB-16	SB-16	SB-17	SB-17	SB-18	SB-18
Sample Identification:	S-12609-080317-SK-031	S-12609-080317-SK-033	S-12609-080317-SK-034	S-12609-080317-SK-035	S-12609-080317-SK-036	S-12609-080317-SK-037	S-12609-080317-SK-038	S-12609-080317-SK-039
Sample Date:	8/3/2017	8/3/2017	8/3/2017	8/3/2017	8/3/2017	8/3/2017	8/3/2017	8/3/2017
Sample Depth:	(14.2-14.2) ft BGS	(18-18) ft BGS	(7.5-7.5) ft BGS	(12.5-12.5) ft BGS	(10-10) ft BGS	(15-15) ft BGS	(7-7) ft BGS	(12.6-12.6) ft BGS
Sample Type:								
	Units							
trans-1,2-Dichloroethene	mg/kg	0.34 U	0.4 U	0.32 U	0.39 U	0.33 U	0.36 U	0.33 U
trans-1,3-Dichloropropene	mg/kg	0.34 U	0.4 U	0.32 U	0.39 U	0.33 U	0.36 U	0.33 U
Trichloroethene	mg/kg	0.34 U	0.4 U	0.32 U	0.39 U	0.33 U	0.36 U	0.33 U
Trichlorofluoromethane (CFC-11)	mg/kg	0.34 U	0.4 U	0.32 U	0.39 U	0.33 U	0.36 U	0.33 U
Trifluorotrichloroethane (CFC-113)	mg/kg	0.34 U	0.4 U	0.32 U	0.39 U	0.33 U	0.36 U	0.33 U
Vinyl chloride	mg/kg	0.34 U	0.4 U	0.32 U	0.39 U	0.33 U	0.36 U	0.33 U
Xylenes (total)	mg/kg	0.14 J	0.8 U	0.63 U	0.77 U	0.66 U	0.72 U	0.66 U

Notes:

U - Not detected at the associated reporting limit.

J - Estimated concentration.

UJ - Not detected; associated reporting limit is estimated.

Bold results indicate a detection

Boxed results indicate an exceedance of the screening benchmark

Table 2

Soil Analytical Results
RACER 103C Landfill
RACER Trust
Toledo, Ohio

Sample Location:	SB-19	SB-19	SB-02	SB-02	SB-03	SB-03	SB-04	SB-04
Sample Identification:	S-12609-080317-SK-040	S-12609-080317-SK-041	S-12609-073117-SK-003	S-12609-073117-SK-004	S-12609-073117-SK-005	S-12609-073117-SK-006	S-12609-073117-SK-007	S-12609-073117-SK-008
Sample Date:	8/3/2017	8/3/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017
Sample Depth:	(7.5-7.5) ft BGS	(15-15) ft BGS	(4.5-4.5) ft BGS	(10-10) ft BGS	(5-5) ft BGS	(7.5-7.5) ft BGS	(2.5-2.5) ft BGS	(10-10) ft BGS
Sample Type:								
Units								
PCBs								
Aroclor-1016 (PCB-1016)	mg/kg	0.069 U	0.069 U	0.06 U	0.067 U	0.059 U	0.064 U	0.065 U
Aroclor-1221 (PCB-1221)	mg/kg	0.069 U	0.069 U	0.06 U	0.067 U	0.059 U	0.064 U	0.065 U
Aroclor-1232 (PCB-1232)	mg/kg	0.069 U	0.069 U	0.06 U	0.067 U	0.059 U	0.064 U	0.065 U
Aroclor-1242 (PCB-1242)	mg/kg	0.069 U	0.069 U	0.06 U	0.067 U	0.059 U	0.064 U	0.065 U
Aroclor-1248 (PCB-1248)	mg/kg	0.069 U	0.069 U	0.06 U	0.067 U	0.059 U	0.064 U	0.065 U
Aroclor-1254 (PCB-1254)	mg/kg	0.069 U	0.069 U	0.06 U	0.067 U	0.059 U	0.064 U	0.065 U
Aroclor-1260 (PCB-1260)	mg/kg	0.069 U	0.069 U	0.06 U	0.067 U	0.059 U	0.064 U	0.065 U
Total PCBs	mg/kg	ND	ND	ND	ND	ND	ND	ND
Volatile Organic Compounds (VOCs)								
1,1,1-Trichloroethane	mg/kg	0.41 U	0.43 U	0.27 UJ	0.38 UJ	0.33 UJ	0.33 UJ	0.36 UJ
1,1,2,2-Tetrachloroethane	mg/kg	0.41 U	0.43 U	0.27 UJ	0.38 UJ	0.33 UJ	0.33 UJ	0.36 UJ
1,1,2-Trichloroethane	mg/kg	0.41 U	0.43 U	0.27 UJ	0.38 UJ	0.33 UJ	0.33 UJ	0.36 UJ
1,1-Dichloroethane	mg/kg	0.41 U	0.43 U	0.27 UJ	0.38 UJ	0.33 UJ	0.33 UJ	0.36 UJ
1,1-Dichloroethene	mg/kg	0.41 U	0.43 U	0.27 UJ	0.38 UJ	0.33 UJ	0.33 UJ	0.36 UJ
1,2,4-Trichlorobenzene	mg/kg	0.41 U	0.43 U	0.27 UJ	0.38 UJ	0.33 UJ	0.33 UJ	0.36 UJ
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.82 U	0.86 U	0.55 UJ	0.75 UJ	0.67 UJ	0.72 UJ	0.69 UJ
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	0.41 U	0.43 U	0.27 UJ	0.38 UJ	0.33 UJ	0.33 UJ	0.36 UJ
1,2-Dichlorobenzene	mg/kg	0.41 U	0.43 U	0.27 UJ	0.38 UJ	0.33 UJ	0.33 UJ	0.36 UJ
1,2-Dichloroethane	mg/kg	0.41 U	0.43 U	0.27 UJ	0.38 UJ	0.33 UJ	0.33 UJ	0.36 UJ
1,2-Dichloropropane	mg/kg	0.41 U	0.43 U	0.27 UJ	0.38 UJ	0.33 UJ	0.33 UJ	0.36 UJ
1,3-Dichlorobenzene	mg/kg	0.41 U	0.43 U	0.27 UJ	0.38 UJ	0.33 UJ	0.33 UJ	0.36 UJ
1,4-Dichlorobenzene	mg/kg	0.41 U	0.43 U	0.27 UJ	0.38 UJ	0.33 UJ	0.33 UJ	0.36 UJ
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	1.6 U	1.7 U	1.1 UJ	1.5 UJ	1.3 UJ	1.3 UJ	1.4 UJ
2-Hexanone	mg/kg	1.6 U	1.7 U	1.1 UJ	1.5 UJ	1.3 UJ	1.3 UJ	1.4 UJ
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	1.6 U	1.7 U	1.1 UJ	1.5 UJ	1.3 UJ	1.3 UJ	1.4 UJ
Acetone	mg/kg	1.6 U	1.7 U	1.1 UJ	1.5 UJ	1.3 UJ	1.3 UJ	1.4 UJ
Benzene	mg/kg	0.41 U	0.43 U	0.27 UJ	0.38 UJ	0.33 UJ	0.33 UJ	0.36 UJ
Bromodichloromethane	mg/kg	0.41 U	0.43 U	0.27 UJ	0.38 UJ	0.33 UJ	0.33 UJ	0.36 UJ
Bromoform	mg/kg	0.41 U	0.43 U	0.27 UJ	0.38 UJ	0.33 UJ	0.33 UJ	0.36 UJ
Bromomethane (Methyl bromide)	mg/kg	0.41 U	0.43 U	0.27 UJ	0.38 UJ	0.33 UJ	0.33 UJ	0.36 UJ
Carbon disulfide	mg/kg	0.41 U	0.43 U	0.27 UJ	0.38 UJ	0.33 UJ	0.33 UJ	0.36 UJ
Carbon tetrachloride	mg/kg	0.41 U	0.43 U	0.27 UJ	0.38 UJ	0.33 UJ	0.33 UJ	0.36 UJ
Chlorobenzene	mg/kg	0.41 U	0.43 U	0.27 UJ	0.38 UJ	0.33 UJ	0.33 UJ	0.36 UJ
Chloroethane	mg/kg	0.41 U	0.43 U	0.27 UJ	0.38 UJ	0.33 UJ	0.33 UJ	0.36 UJ
Chloroform (Trichloromethane)	mg/kg	0.41 U	0.43 U	0.27 UJ	0.38 UJ	0.33 UJ	0.33 UJ	0.36 UJ
Chloromethane (Methyl chloride)	mg/kg	0.41 U	0.43 U	0.27 UJ	0.38 UJ	0.33 UJ	0.33 UJ	0.36 UJ
cis-1,2-Dichloroethene	mg/kg	0.41 U	0.43 U	0.27 UJ	0.38 UJ	0.33 UJ	0.33 UJ	0.36 UJ
cis-1,3-Dichloropropene	mg/kg	0.41 U	0.43 U	0.27 UJ	0.38 UJ	0.33 UJ	0.33 UJ	0.36 UJ
Cyclohexane	mg/kg	0.82 U	0.86 U	0.55 UJ	0.75 UJ	0.67 UJ	0.65 UJ	0.72 UJ
Dibromochloromethane	mg/kg	0.41 U	0.43 U	0.27 UJ	0.38 UJ	0.33 UJ	0.33 UJ	0.36 UJ
Dichlorodifluoromethane (CFC-12)	mg/kg	0.41 U	0.43 U	0.27 UJ	0.38 UJ	0.33 UJ	0.33 UJ	0.36 UJ
Ethylbenzene	mg/kg	0.41 U	0.43 U	0.27 UJ	0.38 UJ	0.33 UJ	0.33 UJ	0.36 UJ
Isopropyl benzene	mg/kg	0.41 U	0.43 U	0.27 UJ	0.38 UJ	0.33 UJ	0.33 UJ	0.36 UJ
Methyl acetate	mg/kg	2 U	2.2 U	0.12 J	1.9 UJ	1.7 UJ	1.6 UJ	0.12 J
Methyl cyclohexane	mg/kg	0.82 U	0.86 U	0.55 UJ	0.75 UJ	0.67 UJ	0.65 UJ	0.72 UJ
Methyl tert butyl ether (MTBE)	mg/kg	0.41 U	0.43 U	0.27 UJ	0.38 UJ	0.33 UJ	0.33 UJ	0.36 UJ
Methylene chloride	mg/kg	0.41 U	0.43 U	0.27 UJ	0.38 UJ	0.33 UJ	0.33 UJ	0.36 UJ
Styrene	mg/kg	0.41 U	0.43 U	0.27 UJ	0.38 UJ	0.33 UJ	0.33 UJ	0.36 UJ
Tetrachloroethene	mg/kg	0.41 U	0.43 U	0.27 UJ	0.38 UJ	0.33 UJ	0.33 UJ	0.36 UJ
Toluene	mg/kg	0.41 U	0.43 U	0.27 UJ	0.38 UJ	0.33 UJ	0.33 UJ	0.36 UJ

Table 2

Soil Analytical Results
RACER 103C Landfill
RACER Trust
Toledo, Ohio

Sample Location:	SB-19	SB-19	SB-02	SB-02	SB-03	SB-03	SB-04	SB-04
Sample Identification:	S-12609-080317-SK-040	S-12609-080317-SK-041	S-12609-073117-SK-003	S-12609-073117-SK-004	S-12609-073117-SK-005	S-12609-073117-SK-006	S-12609-073117-SK-007	S-12609-073117-SK-008
Sample Date:	8/3/2017	8/3/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017
Sample Depth:	(7.5-7.5) ft BGS	(15-15) ft BGS	(4.5-4.5) ft BGS	(10-10) ft BGS	(5-5) ft BGS	(7.5-7.5) ft BGS	(2.5-2.5) ft BGS	(10-10) ft BGS
Sample Type:								
	Units							
trans-1,2-Dichloroethene	mg/kg	0.41 U	0.43 U	0.27 UJ	0.38 UJ	0.33 UJ	0.33 UJ	0.34 UJ
trans-1,3-Dichloropropene	mg/kg	0.41 U	0.43 U	0.27 UJ	0.38 UJ	0.33 UJ	0.36 UJ	0.34 UJ
Trichloroethene	mg/kg	0.41 U	0.43 U	0.27 UJ	0.38 UJ	0.33 UJ	0.36 UJ	0.34 UJ
Trichlorofluoromethane (CFC-11)	mg/kg	0.41 U	0.43 U	0.27 UJ	0.38 UJ	0.33 UJ	0.36 UJ	0.34 UJ
Trifluorotrichloroethane (CFC-113)	mg/kg	0.41 U	0.43 U	0.27 UJ	0.38 UJ	0.33 UJ	0.36 UJ	0.34 UJ
Vinyl chloride	mg/kg	0.41 U	0.43 U	0.27 UJ	0.38 UJ	0.33 UJ	0.36 UJ	0.34 UJ
Xylenes (total)	mg/kg	0.82 U	0.86 U	0.55 UJ	0.75 UJ	0.67 UJ	0.65 UJ	0.69 UJ

Notes:

U - Not detected at the associated reporting limit.

J - Estimated concentration.

UJ - Not detected; associated reporting limit is estimated.

Bold results indicate a detection

Boxed results indicate an exceedance of the screening benchmark

Table 2

Soil Analytical Results
RACER 103C Landfill
RACER Trust
Toledo, Ohio

Sample Location:	SB-05	SB-05	SB-05	SB-06	SB-06	SB-07	SB-07	SB-08
Sample Identification:	S-12609-080117-SK-009	S-12609-080117-SK-010	S-12609-080117-SK-011	S-12609-080117-SK-012	S-12609-080117-SK-013	S-12609-080117-SK-014	S-12609-080117-SK-015	S-12609-080117-SK-016
Sample Date:	8/1/2017	8/1/2017	8/1/2017	8/1/2017	8/1/2017	8/1/2017	8/1/2017	8/1/2017
Sample Depth:	(4.5-4.5) ft BGS	(15-15) ft BGS	(15-15) ft BGS	(7.5-7.5) ft BGS	(20-20) ft BGS	(10-10) ft BGS	(15-15) ft BGS	(2.5-2.5) ft BGS
Sample Type:			Duplicate					
Units								
PCBs								
Aroclor-1016 (PCB-1016)	mg/kg	0.065 U	0.064 U	0.064 U	0.066 U	0.063 U	0.065 U	0.059 U
Aroclor-1221 (PCB-1221)	mg/kg	0.065 U	0.064 U	0.064 U	0.066 U	0.063 U	0.065 U	0.059 U
Aroclor-1232 (PCB-1232)	mg/kg	0.065 U	0.064 U	0.064 U	0.066 U	0.063 U	0.065 U	0.059 U
Aroclor-1242 (PCB-1242)	mg/kg	0.065 U	0.064 U	0.064 U	0.066 U	0.063 U	0.065 U	0.059 U
Aroclor-1248 (PCB-1248)	mg/kg	0.065 U	0.064 U	0.064 U	0.066 U	0.063 U	0.065 U	0.059 U
Aroclor-1254 (PCB-1254)	mg/kg	0.065 U	0.064 U	0.064 U	0.066 U	0.063 U	0.065 U	0.059 U
Aroclor-1260 (PCB-1260)	mg/kg	0.065 U	0.064 U	0.064 U	0.066 U	0.063 U	0.065 U	0.059 U
Total PCBs	mg/kg	ND	ND	ND	ND	ND	ND	ND
Volatile Organic Compounds (VOCs)								
1,1,1-Trichloroethane	mg/kg	0.41 U	0.4 U	0.39 U	0.35 U	0.34 U	0.36 U	0.31 U
1,1,2,2-Tetrachloroethane	mg/kg	0.41 U	0.4 U	0.39 U	0.35 U	0.34 U	0.36 U	0.31 U
1,1,2-Trichloroethane	mg/kg	0.41 U	0.4 U	0.39 U	0.35 U	0.34 U	0.36 U	0.31 U
1,1-Dichloroethane	mg/kg	0.41 U	0.4 U	0.39 U	0.35 U	0.34 U	0.36 U	0.31 U
1,1-Dichloroethene	mg/kg	0.41 U	0.4 U	0.39 U	0.35 U	0.34 U	0.36 U	0.31 U
1,2,4-Trichlorobenzene	mg/kg	0.41 U	0.4 U	0.39 U	0.35 U	0.34 U	0.36 U	0.31 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.82 U	0.81 U	0.77 U	0.7 U	0.68 U	0.72 U	0.61 U
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	0.41 U	0.4 U	0.39 U	0.35 U	0.34 U	0.36 U	0.31 U
1,2-Dichlorobenzene	mg/kg	0.41 U	0.4 U	0.39 U	0.35 U	0.34 U	0.36 U	0.31 U
1,2-Dichloroethane	mg/kg	0.41 U	0.4 U	0.39 U	0.35 U	0.34 U	0.36 U	0.31 U
1,2-Dichloropropane	mg/kg	0.41 U	0.4 U	0.39 U	0.35 U	0.34 U	0.36 U	0.31 U
1,3-Dichlorobenzene	mg/kg	0.41 U	0.4 U	0.39 U	0.35 U	0.34 U	0.36 U	0.31 U
1,4-Dichlorobenzene	mg/kg	0.41 U	0.4 U	0.39 U	0.35 U	0.34 U	0.36 U	0.31 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	1.6 U	1.6 U	1.5 U	1.4 U	1.4 U	1.5 U	1.2 U
2-Hexanone	mg/kg	1.6 U	1.6 U	1.5 U	1.4 U	1.4 U	1.5 U	1.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	1.6 U	1.6 U	1.5 U	1.4 U	1.4 U	1.5 U	1.2 U
Acetone	mg/kg	1.6 U	1.6 U	1.5 U	1.4 U	1.4 U	1.5 U	1.2 U
Benzene	mg/kg	0.41 U	0.4 U	0.39 U	0.35 U	0.34 U	0.36 U	0.31 U
Bromodichloromethane	mg/kg	0.41 U	0.4 U	0.39 U	0.35 U	0.34 U	0.36 U	0.31 U
Bromoform	mg/kg	0.41 U	0.4 U	0.39 U	0.35 U	0.34 U	0.36 U	0.31 U
Bromomethane (Methyl bromide)	mg/kg	0.41 U	0.4 U	0.39 U	0.35 U	0.34 U	0.36 U	0.31 U
Carbon disulfide	mg/kg	0.41 U	0.4 U	0.39 U	0.35 U	0.34 U	0.36 U	0.31 U
Carbon tetrachloride	mg/kg	0.41 U	0.4 U	0.39 U	0.35 U	0.34 U	0.36 U	0.31 U
Chlorobenzene	mg/kg	0.41 U	0.4 U	0.39 U	0.35 U	0.34 U	0.36 U	0.31 U
Chloroethane	mg/kg	0.41 U	0.4 U	0.39 U	0.35 U	0.34 U	0.36 U	0.31 U
Chloroform (Trichloromethane)	mg/kg	0.41 U	0.4 U	0.39 U	0.35 U	0.34 U	0.36 U	0.31 U
Chloromethane (Methyl chloride)	mg/kg	0.41 U	0.4 U	0.39 U	0.35 U	0.34 U	0.36 U	0.31 U
cis-1,2-Dichloroethene	mg/kg	0.41 U	0.4 U	0.39 U	0.35 U	0.34 U	0.36 U	0.31 U
cis-1,3-Dichloropropene	mg/kg	0.41 U	0.4 U	0.39 U	0.35 U	0.34 U	0.36 U	0.31 U
Cyclohexane	mg/kg	0.82 U	0.81 U	0.77 U	0.7 U	0.68 U	0.72 U	0.61 U
Dibromochloromethane	mg/kg	0.41 U	0.4 U	0.39 U	0.35 U	0.34 U	0.36 U	0.31 U
Dichlorodifluoromethane (CFC-12)	mg/kg	0.41 U	0.4 U	0.39 U	0.35 U	0.34 U	0.36 U	0.31 U
Ethylbenzene	mg/kg	0.41 U	0.4 U	0.39 U	0.35 U	0.34 U	0.36 U	0.31 U
Isopropyl benzene	mg/kg	0.41 U	0.4 U	0.39 U	0.35 U	0.34 U	0.36 U	0.31 U
Methyl acetate	mg/kg	2.1 U	2 U	1.9 U	1.7 U	1.7 U	1.8 U	1.5 U
Methyl cyclohexane	mg/kg	0.82 U	0.81 U	0.77 U	0.7 U	0.68 U	0.72 U	0.61 U
Methyl tert butyl ether (MTBE)	mg/kg	0.41 U	0.4 U	0.39 U	0.35 U	0.34 U	0.36 U	0.31 U
Methylene chloride	mg/kg	0.41 U	0.4 U	0.39 U	0.35 U	0.34 U	0.36 U	0.31 U
Styrene	mg/kg	0.41 U	0.4 U	0.39 U	0.35 U	0.34 U	0.36 U	0.31 U
Tetrachloroethene	mg/kg	0.41 U	0.4 U	0.39 U	0.35 U	0.34 U	0.36 U	0.31 U
Toluene	mg/kg	0.41 U	0.4 U	0.39 U	0.35 U	0.34 U	0.36 U	0.31 U

Table 2

Soil Analytical Results
RACER 103C Landfill
RACER Trust
Toledo, Ohio

Sample Location:	SB-05	SB-05	SB-05	SB-06	SB-06	SB-07	SB-07	SB-08
Sample Identification:	S-12609-080117-SK-009	S-12609-080117-SK-010	S-12609-080117-SK-011	S-12609-080117-SK-012	S-12609-080117-SK-013	S-12609-080117-SK-014	S-12609-080117-SK-015	S-12609-080117-SK-016
Sample Date:	8/1/2017	8/1/2017	8/1/2017	8/1/2017	8/1/2017	8/1/2017	8/1/2017	8/1/2017
Sample Depth:	(4.5-4.5) ft BGS	(15-15) ft BGS	(15-15) ft BGS	(7.5-7.5) ft BGS	(20-20) ft BGS	(10-10) ft BGS	(15-15) ft BGS	(2.5-2.5) ft BGS
Sample Type:			Duplicate					
	Units							
trans-1,2-Dichloroethene	mg/kg	0.41 U	0.4 U	0.39 U	0.35 U	0.34 U	0.36 U	0.31 U
trans-1,3-Dichloropropene	mg/kg	0.41 U	0.4 U	0.39 U	0.35 U	0.34 U	0.36 U	0.31 U
Trichloroethene	mg/kg	0.41 U	0.4 U	0.39 U	0.35 U	0.34 U	0.36 U	0.31 U
Trichlorofluoromethane (CFC-11)	mg/kg	0.41 U	0.4 U	0.39 U	0.35 U	0.34 U	0.36 U	0.31 U
Trifluorotrichloroethane (CFC-113)	mg/kg	0.41 U	0.4 U	0.39 U	0.35 U	0.34 U	0.36 U	0.31 U
Vinyl chloride	mg/kg	0.41 U	0.4 U	0.39 U	0.35 U	0.34 U	0.36 U	0.31 U
Xylenes (total)	mg/kg	0.82 U	0.81 U	0.77 U	0.7 U	0.68 U	0.73 U	0.61 U

Notes:

U - Not detected at the associated reporting limit.

J - Estimated concentration.

UJ - Not detected; associated reporting limit is estimated.

Bold results indicate a detection

Boxed results indicate an exceedance of the screening benchmark

Table 2

Soil Analytical Results
RACER 103C Landfill
RACER Trust
Toledo, Ohio

Sample Location:	SB-08	SB-09	SB-09
Sample Identification:	S-12609-080117-SK-017	S-12609-080117-SK-018	S-12609-080117-SK-019
Sample Date:	8/1/2017	8/1/2017	8/1/2017
Sample Depth:	(10-10) ft BGS	(2.5-2.5) ft BGS	(15-15) ft BGS
Sample Type:			
Units			
PCBs			
Aroclor-1016 (PCB-1016)	mg/kg 0.064 U	0.062 U	0.068 U
Aroclor-1221 (PCB-1221)	mg/kg 0.064 U	0.062 U	0.068 U
Aroclor-1232 (PCB-1232)	mg/kg 0.064 U	0.062 U	0.068 U
Aroclor-1242 (PCB-1242)	mg/kg 0.064 U	0.062 U	0.068 U
Aroclor-1248 (PCB-1248)	mg/kg 0.064 U	0.062 U	0.068 U
Aroclor-1254 (PCB-1254)	mg/kg 0.064 U	0.062 U	0.068 U
Aroclor-1260 (PCB-1260)	mg/kg 0.064 U	0.062 U	0.068 U
Total PCBs	mg/kg ND	ND	ND
Volatile Organic Compounds (VOCs)			
1,1,1-Trichloroethane	mg/kg 0.33 U	0.36 U	0.33 U
1,1,2,2-Tetrachloroethane	mg/kg 0.33 U	0.36 U	0.33 U
1,1,2-Trichloroethane	mg/kg 0.33 U	0.36 U	0.33 U
1,1-Dichloroethane	mg/kg 0.33 U	0.36 U	0.33 U
1,1-Dichloroethene	mg/kg 0.33 U	0.36 U	0.33 U
1,2,4-Trichlorobenzene	mg/kg 0.33 U	0.36 U	0.33 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg 0.67 U	0.72 U	0.67 U
1,2-Dibromoethane (Ethylene dibromide)	mg/kg 0.33 U	0.36 U	0.33 U
1,2-Dichlorobenzene	mg/kg 0.33 U	0.36 U	0.33 U
1,2-Dichloroethane	mg/kg 0.33 U	0.36 U	0.33 U
1,2-Dichloropropane	mg/kg 0.33 U	0.36 U	0.33 U
1,3-Dichlorobenzene	mg/kg 0.33 U	0.36 U	0.33 U
1,4-Dichlorobenzene	mg/kg 0.33 U	0.36 U	0.33 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg 1.3 U	1.4 U	1.3 U
2-Hexanone	mg/kg 1.3 U	1.4 U	1.3 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg 1.3 U	1.4 U	1.3 U
Acetone	mg/kg 1.3 U	1.4 U	1.3 U
Benzene	mg/kg 0.33 U	0.36 U	0.33 U
Bromodichloromethane	mg/kg 0.33 U	0.36 U	0.33 U
Bromoform	mg/kg 0.33 U	0.36 U	0.33 U
Bromomethane (Methyl bromide)	mg/kg 0.33 U	0.36 U	0.33 U
Carbon disulfide	mg/kg 0.33 U	0.36 U	0.33 U
Carbon tetrachloride	mg/kg 0.33 U	0.36 U	0.33 U
Chlorobenzene	mg/kg 0.33 U	0.36 U	0.33 U
Chloroethane	mg/kg 0.33 U	0.36 U	0.33 U
Chloroform (Trichloromethane)	mg/kg 0.33 U	0.36 U	0.33 U
Chloromethane (Methyl chloride)	mg/kg 0.33 U	0.36 U	0.33 U
cis-1,2-Dichloroethene	mg/kg 0.33 U	0.36 U	0.33 U
cis-1,3-Dichloropropene	mg/kg 0.33 U	0.36 U	0.33 U
Cyclohexane	mg/kg 0.67 U	0.72 U	0.67 U
Dibromochloromethane	mg/kg 0.33 U	0.36 U	0.33 U
Dichlorodifluoromethane (CFC-12)	mg/kg 0.33 U	0.36 U	0.33 U
Ethylbenzene	mg/kg 0.33 U	0.36 U	0.33 U
Isopropyl benzene	mg/kg 0.33 U	0.36 U	0.33 U
Methyl acetate	mg/kg 1.7 U	1.8 U	1.7 U
Methyl cyclohexane	mg/kg 0.67 U	0.72 U	0.67 U
Methyl tert butyl ether (MTBE)	mg/kg 0.33 U	0.36 U	0.33 U
Methylene chloride	mg/kg 0.33 U	0.36 U	0.33 U
Styrene	mg/kg 0.33 U	0.36 U	0.33 U
Tetrachloroethene	mg/kg 0.33 U	0.36 U	0.33 U
Toluene	mg/kg 0.33 U	0.36 U	0.33 U

Table 2

Soil Analytical Results
RACER 103C Landfill
RACER Trust
Toledo, Ohio

Sample Location:		SB-08	SB-09	SB-09
Sample Identification:		S-12609-080117-SK-017	S-12609-080117-SK-018	S-12609-080117-SK-019
Sample Date:		8/1/2017	8/1/2017	8/1/2017
Sample Depth:		(10-10) ft BGS	(2.5-2.5) ft BGS	(15-15) ft BGS
Sample Type:				
	Units			
trans-1,2-Dichloroethene	mg/kg	0.33 U	0.36 U	0.33 U
trans-1,3-Dichloropropene	mg/kg	0.33 U	0.36 U	0.33 U
Trichloroethene	mg/kg	0.33 U	0.36 U	0.33 U
Trichlorofluoromethane (CFC-11)	mg/kg	0.33 U	0.36 U	0.33 U
Trifluorotrichloroethane (CFC-113)	mg/kg	0.33 U	0.36 U	0.33 U
Vinyl chloride	mg/kg	0.33 U	0.36 U	0.33 U
Xylenes (total)	mg/kg	0.67 U	0.72 U	0.67 U

Notes:
U - Not detected at the associated reporting limit.
J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.
Bold results indicate a detection
Boxed results indicate an exceedance of the screening benchmark

Table 3
Groundwater Analytical Results
RACER 103C Landfill
RACER Trust
Toledo, Ohio

Sample Location:						SB-11	SB-13	SB-14
Sample Identification:						GW-12609-080417-SK-003	GW-12609-080317-SK-002	GW-12609-080317-SK-001
Sample Date:						8/4/2017	8/3/2017	8/3/2017
	Units	Ecological Water Benchmark	Source	Human Health Non-Drinking	Source			
Volatile Organic Compounds (VOCs)								
1,1,1-Trichloroethane	mg/L	1.4	Ohio IMZM	1600	Ohio	0.001 U	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	1.8	Ohio IMZM	0.041	Ohio	0.001 U	0.001 U	0.001 U
1,1,2-Trichloroethane	mg/L	6.6	Ohio IMZM	0.17	Ohio	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	7.3	Ohio IMZM	62	Ohio	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	3.8	Ohio IMZM	0.015	Ohio	0.001 U	0.001 U	0.001 U
1,2,4-Trichlorobenzene	mg/L	0.13	USEPA 4			0.001 U	0.001 U	0.001 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L					0.002 U	0.002 U	0.002 U
1,2-Dibromoethane (Ethylene dibromide)	mg/L					0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	0.26	Ohio IMZM	11	Ohio	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	19	Ohio IMZM	0.23	Ohio	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	6.5	Ohio IMZM	0.29	Ohio	0.00036 J	0.001 U	0.001 U
1,3-Dichlorobenzene	mg/L	0.16	Ohio IMZM	9.3	Ohio	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	0.11	Ohio IMZM	0.24	Ohio	0.001 U	0.001 U	0.001 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	22	USEPA 4			0.01 U	0.01 U	0.01 U
2-Hexanone	mg/L	0.099	USEPA 4			0.01 U	0.01 U	0.01 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.17	USEPA 4			0.01 U	0.01 U	0.01 U
Acetone	mg/L	1.7	USEPA 4			0.01 U	0.01 U	0.01 U
Benzene	mg/L	1.4	Ohio IMZM	0.31	Ohio	0.001 U	0.001 U	0.001 U
Bromodichloromethane	mg/L	6.2	Ohio IMZM	0.18	Ohio	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	2.2	Ohio IMZM	0.89	Ohio	0.001 U	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	0.075	Ohio IMZM	2.6	Ohio	0.001 U	0.001 U	0.001 U
Carbon disulfide	mg/L	0.26	Ohio IMZM			0.001 U	0.001 U	0.001 U
Carbon tetrachloride	mg/L	4.4	Ohio IMZM	0.019	Ohio	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	0.85	Ohio IMZM	3.2	Ohio	0.001 U	0.001 U	0.001 U
Chloroethane	mg/L					0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	mg/L	2.6	Ohio IMZM	1.7	Ohio	0.001 U	0.001 U	0.001 U
Chloromethane (Methyl chloride)	mg/L			7.3	Ohio	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	3.8	Ohio IMZM	36	Ohio	0.013	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	0.0017	USEPA 4			0.001 U	0.001 U	0.001 U
Cyclohexane	mg/L	0.23	USEPA 4			0.001 U	0.001 U	0.001 U
Dibromochloromethane	mg/L	5.8	Ohio IMZM	0.15	Ohio	0.001 U	0.001 U	0.001 U
Dichlorodifluoromethane (CFC-12)	mg/L					0.001 U	0.001 U	0.001 U
Ethylbenzene	mg/L	1.1	Ohio IMZM	8.9	Ohio	0.001 U	0.001 U	0.001 U
Isopropyl benzene	mg/L	0.086	Ohio IMZM	3.8	Ohio	0.001 U	0.001 U	0.001 U
Methyl acetate	mg/L					0.01 U	0.01 U	0.01 U
Methyl cyclohexane	mg/L					0.001 U	0.001 U	0.001 U
Methyl tert butyl ether (MTBE)	mg/L	13	Ohio IMZM			0.001 U	0.001 U	0.001 U
Methylene chloride	mg/L	22	Ohio IMZM	2.6	Ohio	0.001 U	0.001 U	0.001 U
Styrene	mg/L	0.57	Ohio IMZM			0.001 U	0.001 U	0.001 U
Tetrachloroethene	mg/L	0.85	Ohio IMZM	0.32	Ohio	0.001 U	0.001 U	0.001 U
Toluene	mg/L	1.1	Ohio IMZM	51	Ohio	0.001 U	0.001 U	0.00028 J
trans-1,2-Dichloroethene	mg/L	0.558	USEPA 4			0.001 U	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	0.0017	USEPA 4			0.001 U	0.001 U	0.001 U
Trichloroethene	mg/L	4	Ohio IMZM	0.37	Ohio	0.0014	0.001 U	0.001 U
Trichlorofluoromethane (CFC-11)	mg/L					0.001 U	0.001 U	0.001 U
Trifluorotrichloroethane (CFC-113)	mg/L					0.001 U	0.001 U	0.001 U
Vinyl chloride	mg/L	17	Ohio IMZM	0.028	Ohio	0.001 U	0.001 U	0.001 U
Xylenes (total)	mg/L	0.027	USEPA 4			0.002 U	0.002 U	0.002 U

Notes:
U - Not detected at the associated reporting limit.
J - Estimated concentration.

Appendices

Appendix A

High Resolution Site Characterization Report

HPT Investigation

High Resolution Site Characterization Report – HPT Investigation

Client: GHD

Project Name: GM Powertrain RACER

Location: Toledo, OH

Prepared by:

Dakota Technologies Company, LLC

5001 Boone Avenue N.

New Hope, MN 55428

763.424.4803

August 8th, 2017

Project Number: 0185.17



www.dakotatechnologies.com
National and International Services

■ High Resolution Site Characterization Specialists ■

TABLE OF CONTENTS

1.0	HYDRAULIC PROFILING TOOL (HPT) SYSTEM DESCRIPTION.....	1
2.0	ELECTRICAL CONDUCTIVITY (EC) DESCRIPTION.....	3
3.0	DISCUSSION AND COMMENTS.....	4
4.0	LIMITATIONS.....	5
5.0	REFERENCES.....	5

APPENDICES

Appendix A	HPT Field Summary Log
Appendix B	HPT Logs with QC
Appendix C	HPT Reference Log

1.0 HYDRAULIC PROFILING TOOL (HPT) SYSTEM DESCRIPTION

The Hydraulic Profiling Tool (HPT) is a logging tool that measures the pressure required to inject a flow of water into the soil as the probe is advanced into the subsurface. The injection pressure log is an excellent indicator of formation permeability. In addition to measurement of injection pressure, the HPT can also be used to measure hydrostatic pressure under the zero flow condition. This allows the development of a hydrostatic pressure graph for the log and prediction of the position of the water table.

The probe is advanced into the ground at a rate of approximately 2 cm/sec. The pump in the HPT flow module draws water from the supply tank and pumps water down the trunk line at a constant flow rate (250-mL/min). An inline flow meter measures the flow rate. The downhole pressure sensor monitors the pressure generated by injecting water into the formation matrix. The HPT probe also includes a Wenner type array for measurement of soil electrical conductivity (EC) as the probe is advanced to depth. The HPT log provides graphs of the electrical conductance, HPT pressure and flow rate versus depth.

Prior to running an HPT log, quality assurance (QA) tests are run on the Wenner array and pressure sensor. The results of the QA tests are saved in an information file for later review and reporting. The Wenner array electrodes are placed on a test jig and the test load is used to verify the electrical continuity and isolation of the EC system. Next, a reference test is performed on the pressure sensor. This is accomplished by submerging the HPT probe a specified depth below the water level in a reference tube. A two-step test enables the operator to verify that the pressure sensor is providing the correct measurement for a defined length of water column. If the result is more than +/-10% out of range, the transducer fails the QA test. At completion of the field boring, another QA test is performed to verify proper probe performance during the logging event.

The HPT pressure log reveals observed pressure depending on the characteristics of the soil or sediment penetrated. It is apparent that higher pressure resulting from the injection of water into a sediment at a given flow rate indicates lower permeability and conversely, that lower pressure from injection of water at a given flow rate indicates higher permeability. This simple relationship allows you to evaluate changes in relative permeability of soils and sediments in an HPT log by reviewing the pressure versus depth log. High EC readings in general correlate with high pressure readings and conversely low EC readings usually correlate with low pressure readings. However, pressure plots frequently reveal hydraulic behavior of the soil not observed by the EC, and the EC may display responses associated with mineralogy and chemical conductance not observed by the pressure plot. Another important feature of the HPT pressure log is the increase in hydrostatic pressure as the probe is advanced below the water table. The increase in hydrostatic pressure results in a “rising baseline” on the pressure log. To obtain a quantitative determination of the local static water level a pressure dissipation test must be performed during the

logging operation. To perform the dissipation test the advancement of the probe is halted and the operator starts a time log. Water flow is turned off to observe and record the dissipation of the HPT pressure versus time, until pressure stabilizes. The stabilized pressure is the absolute hydrostatic pressure at the depth of the test. Knowing the depth of the test, the absolute hydrostatic pressure and the atmospheric pressure the static water level may be calculated. Multiple dissipation tests may be performed at different depths during a single log to evaluate variations in piezometric head with depth and local vertical gradients in the aquifer.

Dissipation test data can be used in conjunction with the pressure and flow logs to estimate hydraulic conductivity (K) for the entire log after logging is completed. From Darcy's Law, K is proportional to the flow rate (Q) divided by the pressure (P) required to induce that flow rate in the given sediment or soil. The raw HPT pressure provided by the HPT log is the total pressure observed at the depth where the water is injected. This total pressure includes the ambient atmospheric pressure at the time of the log, the local hydrostatic pressure and the pressure required to inject the fluid into the formation:

$$P \text{ (total)} = P \text{ (atm)} + P \text{ (hydro)} + P \text{ (inj)}$$

As discussed above, the atmospheric pressure is determined from the pre and post log response tests and the hydrostatic pressure is defined by one or more dissipation tests obtained as the log is produced. The actual injection pressure [$P_{inj} = P_{total} - (P_{hydro} + P_{atm})$] that was required to inject the water into the formation is calculated for each depth increment of the log. The actual injection pressure (P_{inj}) and the measured flow rate (Q) are then used to model an estimated K value for each depth increment of the HPT log (Geoprobe 2010b).

2.0 ELECTRICAL CONDUCTIVITY (EC) DESCRIPTION

Electrical Conductivity (EC) is a measure of the soil's ability to conduct an electrical current using the Wenner array of the HPT/EC probe. Conductivity is the reciprocal of electrical resistivity and has the units (in our application) of millisiemens per meter (mS/m). Since soil is in the pathway of the charge flow, the grain size can be determined by comparing the EC log to a soil boring. Conductivity readings in the 100s indicate smaller grain (such as clay). Larger grain size (sand and gravels) are typically in the 10s of mS/m range. Prior to every log, the Wenner array of the HPT probe is checked for proper operation by performing a conductivity test with a Wenner array test jig. The probe is put through a check of isolation and continuity.

3.0 DISCUSSION AND COMMENTS

Dakota Technologies pushed a total of seventeen HPT logs to depths ranging from 20-26 feet below the ground surface.

Dissipation tests were performed at each boring location for calculating static water levels and hydraulic conductivity (estimated K) plots. The calculated estimated K values assume dissipation tests reached equilibrium. Only one of the borings, HPT-01, completely dissipated and reached equilibrium.

The transducer passed all QA testing for each log, except for HPT-07 where the pre-log EC and transducer calibration tests had to be bypassed because the probe was crooked. The HPT system utilizes a transducer that produces pressure readings between 0 and 110 psi. The pressure data graph is set at 120 psi to capture all HPT readings, with a flat line at 110 psi resulting when the transducer maximum is reached (representing soil of small grain size, such as clay).

Electrical conductivity (EC) data was collected simultaneously at each HPT location. The EC was tested before and after each HPT log was performed and passed all QA checks in the normal manner. The HPT pressure plots did reveal several zones (see summary) that are less permeable to water. These high-pressure zones, recorded on the field summary log, were not distinguishable by the electrical conductivity.

After every HPT log, Dakota completed a soil boring next to each HPT hole to the same depth. Because the soils were extremely tight due to the clay/silty-clay conditions, an exact static water level was hard to determine at most of the locations on the property, except for HPT-01. Based on the dissipation test for HPT-01, the static water level was at 8.3 feet.

Dakota also installed temporary wells for groundwater samples at three different locations. One was by HPT-14, the 2nd location was by HPT-13 and the last groundwater sample was by HPT-11. After purging the groundwater and because of the tight soils again, it took several minutes for the temporary wells to recharge and obtain groundwater. In the end, the necessary groundwater samples were collected.

4.0 LIMITATIONS

The HPT tool is limited to a working depth (max) of 120 feet below ground water and the pressure transducer operating range is 0-101 psi. Coarse (sandy), saturated soils are required for dissipation tests to be performed. Successful (fully stabilized) dissipations are required for water table and hydraulic conductivity (Est. K) calculations. The lower K boundary for Geoprobe's empirical calculation model is about 0.1 ft./day and the upper boundary is near 75 ft./day.

The analysis and opinions expressed in this report are based upon data obtained from the specific test locations and from other information discussed in this report. Exceptions, if any, are discussed in the accompanying comments section of this report. This report is prepared for the exclusive use of our client for specific application to the project discussed and has been prepared in accordance with generally accepted practices. Reported results shall not be reproduced, except in full, without written approval of Dakota. No warranties, expressed or implied are intended or made.

5.0 REFERENCES

Geoprobe 2006a. Hydrostratigraphic Characterization Using the Hydraulic Profiling Tool (HPT), Tech Bul. No. MK3099, Kejr Inc., Salina, KS; April 2006.

Geoprobe, 2007. Geoprobe Hydraulic Profiling Tool (HPT) System, Standard Operating System Procedure, Tech. Bul. No. MK3137, Kejr Inc., Salina, KS; March 2007.

Geoprobe, 2010b. Tech Guide for Calculation of Estimated Hydraulic Conductivity (Est. K) Log from HPT Data, Kejr Inc. Salina, KS; November 2010.

McCall, Wesley and Thomas Christy, 2010. Development of a Hydraulic Conductivity Estimate for the Hydraulic Profiling Tool (HPT): Abstract and Presentation; The 2010 North American Environmental Field Conference & Exposition, The Nielsen Environmental Field School, Las Cruces, NM; January 2010.

Appendix A

HPT Field Summary Log

HPT Field Summary Log

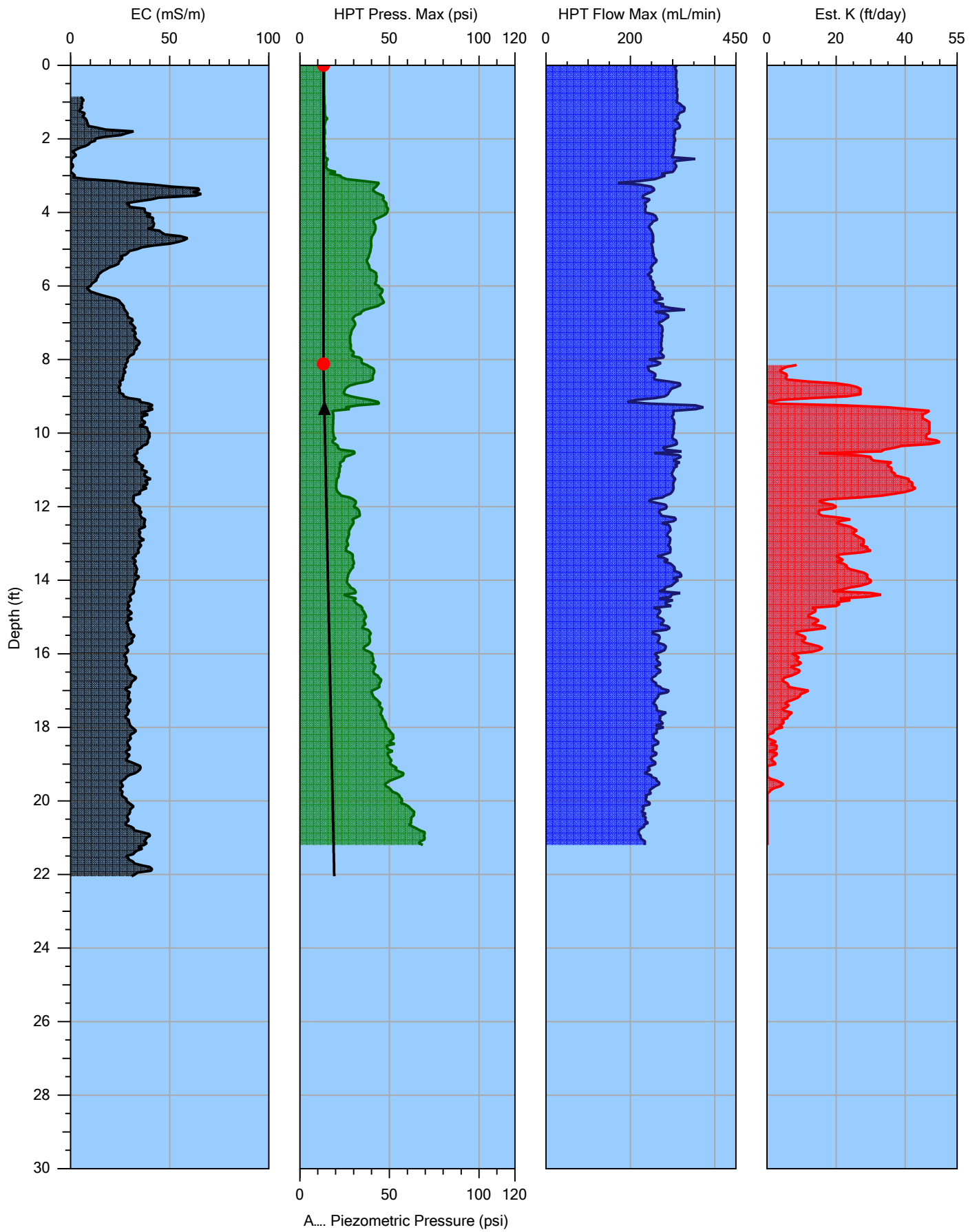
GM Powertrain RACER

Toledo, OH

File Log ID	Date	Total Depth (ft)	Preprobed Depth (ft)	QA/QC (pass / fail)				Static Water			
				EC Results		Transducer Results		Level	Dissipation Test		Comments
				Pre-Log pass / fail	Post-Log pass / fail	Pre-Log pass / fail	Post-Log pass / fail	based on dissipation (ft)	Depth (ft)	Stable? yes / no	
HPT-01	07/31/17	21.2	3	pass	pass	pass	pass	8.3	9.5	yes	only boring that was able to perform a dissipation
HPT-02	07/31/17	22.3	3	pass	pass	pass	pass	N/A	11.2	no	no comments
HPT-03	07/31/17	20.8	3	pass	pass	pass	pass	N/A	11.3, 12.3	no, no	no comments
HPT-04	07/31/17	20.7	3	pass	pass	pass	pass	N/A	12.5	no	no comments
HPT-05	08/01/17	20.6	3	pass	pass	pass	pass	N/A	17.6	no	no comments
HPT-06	08/01/17	21.3	N/A	pass	pass	pass	pass	N/A	5.8	no	no comments
HPT-07	08/01/17	21.3	3	bypassed	pass	bypassed	pass	N/A	13.4	no	probe was crooked, log had to be started over
HPT-08	08/01/17	20.5	2	pass	pass	pass	pass	N/A	10.8	no	no comments
HPT-09	08/01/17	20.5	2	pass	pass	pass	pass	N/A	9.1	no	no comments
HPT-10	08/01/17	20.4	N/A	pass	pass	pass	pass	N/A	9.8	no	no comments
HPT-11	08/02/17	20.5	3	pass	pass	pass	pass	N/A	8.0	no	no comments
HPT-12	08/02/17	25.0	N/A	pass	pass	pass	pass	N/A	22.1	no	no comments
HPT-13	08/02/17	25.1	N/A	pass	pass	pass	pass	N/A	6.6	no	no comments
HPT-14	08/02/17	25.1	N/A	pass	pass	pass	pass	N/A	6.7	no	no comments
HPT-15	08/03/17	25.1	N/A	pass	pass	pass	pass	N/A	7.1	no	no comments
HPT-16	08/03/17	25.6	N/A	pass	pass	pass	pass	N/A	14.7	no	no comments
HPT-17	08/03/17	25.0	N/A	pass	pass	pass	pass	N/A	7.3	no	no comments
Total footage:		380.8									

Appendix B

HPT Logs with QC



A.... Piezometric Pressure (psi)



Company: Dakota Technologies
Project ID: 0185.17

Operator: Michael C.
Client: GHD

File:	HPT-01.HPT
Date:	7/31/2017
Location:	

HPT-01.zip

SITE INFORMATION -- DIRECT IMAGE HPT PROBE

Geoprobe DI Acquisition Software for Windows
Version: 1.7 Build: 16064

Pre-Log EC Load Tests

Test	Target (mS/m)	Actual (mS/m)	% Diff	P/F
Test 1	195.0	187.3	3.9	PASS
Test 2	97.0	94.2	2.8	PASS
Test 3	24.0	23.9	0.6	PASS

COMPANY: Dakota Technologies
OPERATOR: Michael C.
PROJECT ID: 0185.17
CLIENT: GHD
UNITS: ENGLISH
PROBE AND ARRAY: K6050 HPT Probe with Wenner
LOCATION: Toledo, OH
100 INCH STRING POT USED
ROD LENGTH: 4 feet

PRE-LOG HPT REFERENCE TEST VALUES

PRE TEST TIME: Mon Jul 31 2017 09:49:38

TEST	HPT PRESSURE (psi)	FLOW (mL/min)	HPT PRESSURE (kPa)
TOP with FLOW=0	13.603	0.0	93.790
TOP with FLOW>0	13.963	296.3	96.270
BOTTOM with FLOW=0	13.389	0.0	92.310
BOTTOM with FLOW>0	13.745	295.7	94.770

EXPECTED FLOW=0 HPT DIFF.: 0.22 psi (1.5 kPa) +/- 10%
ACTUAL FLOW=0 HPT DIFF.: 0.21 psi (1.5 kPa)

TRANSDUCER TEST PASSED

HPT IDEAL COEFFS: 2.2696e1,-2.2356
HPT SENSOR CAL NUMBERS: XD2251A,0.0000,0.0000,8.0000e-7,-4.0000e-5,1.0219,-3.6898
LOG START TIME: Mon Jul 31 2017 09:56:45

LOG END DEPTH: 21.20 ft (6.462 m)
LOG END TIME: Mon Jul 31 2017 10:18:01

LATITUDE: 0.000000000
LONGITUDE: 0.000000000
ELEVATION: 0.000 METERS 0.00 FEET
GPS Quality: None

POST-LOG HPT REFERENCE TEST VALUES

POST TEST TIME: Mon Jul 31 2017 10:24:20

TEST	HPT PRESSURE (psi)	FLOW (mL/min)	HPT PRESSURE (kPa)
TOP with FLOW=0	13.556	0.0	93.470
TOP with FLOW>0	13.882	304.1	95.720
BOTTOM with FLOW=0	13.351	0.0	92.050
BOTTOM with FLOW>0	13.650	304.2	94.110

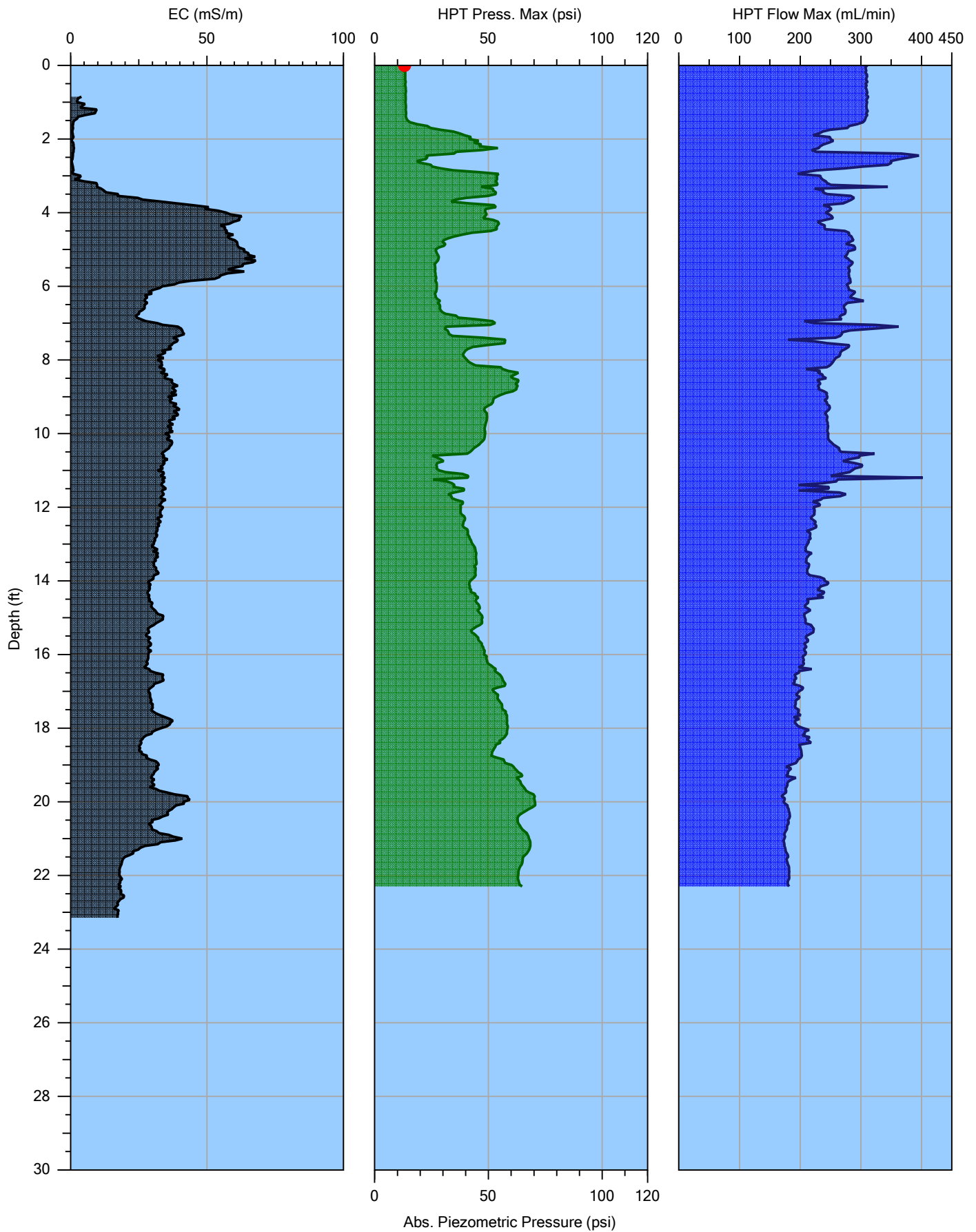
EXPECTED FLOW=0 HPT DIFF.: 0.22 psi (1.5 kPa) +/- 10%

ACTUAL FLOW=0 HPT DIFF.: 0.20 psi (1.4 kPa)

TRANSDUCER TEST PASSED

Post-Log EC Load Tests

Test	Target (mS/m)	Actual (mS/m)	% Diff	P/F
Test 1	195.0	183.7	5.8	PASS
Test 2	97.0	96.4	0.6	PASS
Test 3	24.0	23.9	0.6	PASS



Company: Dakota Technologies
Project ID: 0185.17

Operator: Michael C.
Client: GHD

File:	HPT-02.HPT
Date:	7/31/2017
Location:	

HPT-02.zip

SITE INFORMATION -- DIRECT IMAGE HPT PROBE

Geoprobe DI Acquisition Software for Windows
Version: 1.7 Build: 16064

Pre-Log EC Load Tests

Test	Target (mS/m)	Actual (mS/m)	% Diff	P/F
Test 1	195.0	183.7	5.8	PASS
Test 2	97.0	93.3	3.9	PASS
Test 3	24.0	24.3	1.1	PASS

COMPANY: Dakota Technologies
OPERATOR: Michael C.
PROJECT ID: 0185.17
CLIENT: GHD
UNITS: ENGLISH
PROBE AND ARRAY: K6050 HPT Probe with Wenner
LOCATION: Toledo, OH
100 INCH STRING POT USED
ROD LENGTH: 4 feet

PRE-LOG HPT REFERENCE TEST VALUES

PRE TEST TIME: Mon Jul 31 2017 12:15:24

TEST	HPT PRESSURE (psi)	FLOW (mL/min)	HPT PRESSURE (kPa)
TOP with FLOW=0	13.532	0.0	93.300
TOP with FLOW>0	13.846	306.0	95.470
BOTTOM with FLOW=0	13.303	0.0	91.720
BOTTOM with FLOW>0	13.624	304.8	93.940

EXPECTED FLOW=0 HPT DIFF.: 0.22 psi (1.5 kPa) +/- 10%
ACTUAL FLOW=0 HPT DIFF.: 0.23 psi (1.6 kPa)

TRANSDUCER TEST PASSED

HPT IDEAL COEFFS: 2.2696e1,-2.2356
HPT SENSOR CAL NUMBERS: XD2251A,0.0000,0.0000,8.0000e-7,-4.0000e-5,1.0219,-3.6898
LOG START TIME: Mon Jul 31 2017 12:20:19

LOG END DEPTH: 22.30 ft (6.797 m)
LOG END TIME: Mon Jul 31 2017 12:44:51

LATITUDE: 0.000000000
LONGITUDE: 0.000000000
ELEVATION: 0.000 METERS 0.00 FEET
GPS Quality: None

POST-LOG HPT REFERENCE TEST VALUES

POST TEST TIME: Mon Jul 31 2017 12:52:46

TEST	HPT PRESSURE (psi)	FLOW (mL/min)	HPT PRESSURE (kPa)
TOP with FLOW=0	13.545	0.0	93.390
TOP with FLOW>0	13.857	287.1	95.540
BOTTOM with FLOW=0	13.340	0.0	91.980
BOTTOM with FLOW>0	13.619	286.6	93.900

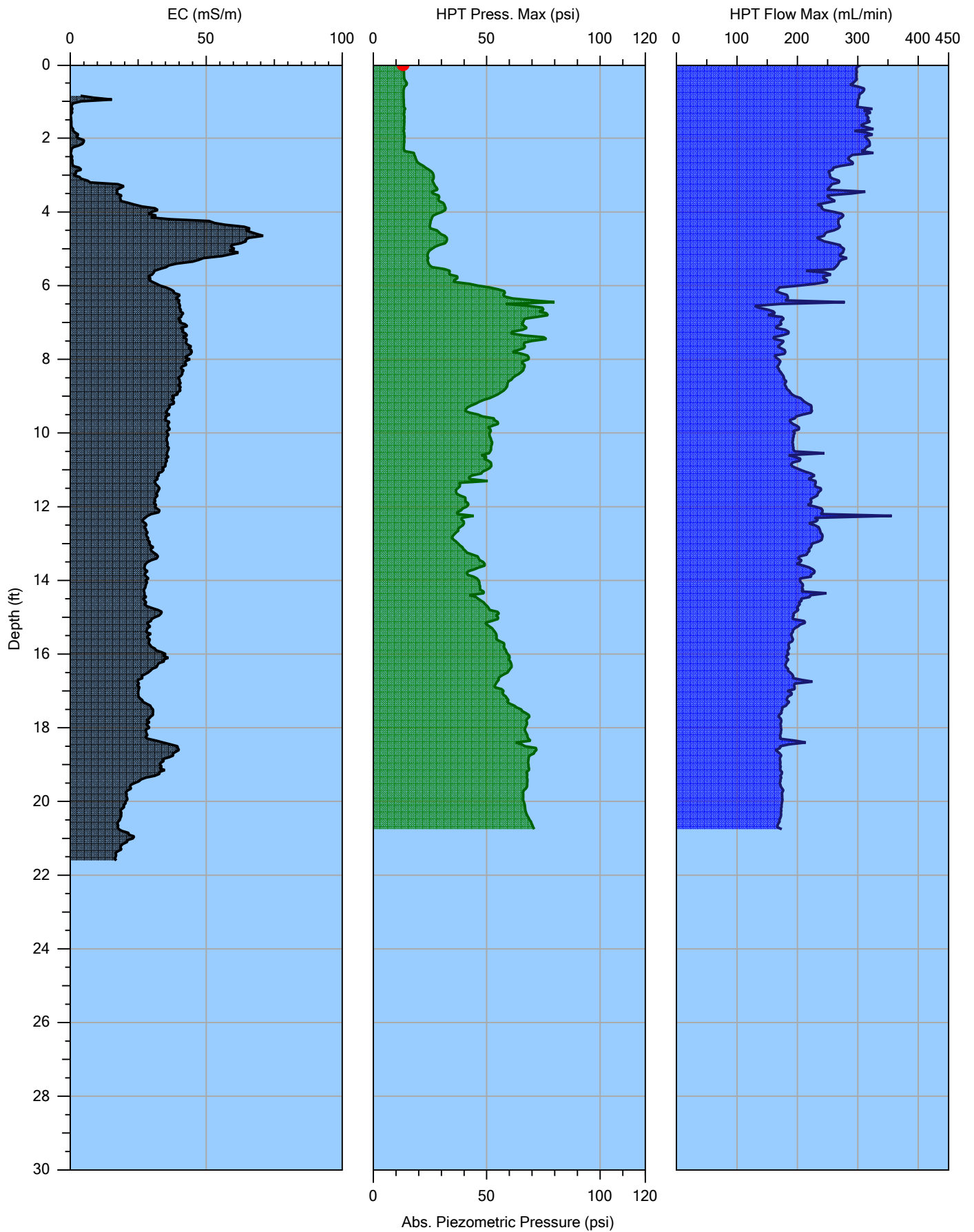
EXPECTED FLOW=0 HPT DIFF.: 0.22 psi (1.5 kPa) +/- 10%

ACTUAL FLOW=0 HPT DIFF.: 0.20 psi (1.4 kPa)

TRANSDUCER TEST PASSED

Post-Log EC Load Tests

Test	Target (mS/m)	Actual (mS/m)	% Diff	P/F
Test 1	195.0	186.9	4.2	PASS
Test 2	97.0	94.1	2.9	PASS
Test 3	24.0	23.9	0.3	PASS



Company: Dakota Technologies
Project ID: 0185.17

Operator: Michael C.
Client: GHD

File:	HPT-03.HPT
Date:	7/31/2017
Location:	

HPT-03.zip

SITE INFORMATION -- DIRECT IMAGE HPT PROBE

Geoprobe DI Acquisition Software for Windows
Version: 1.7 Build: 16064

Pre-Log EC Load Tests (Post-Log From HPT-02.zip)

Test	Target (mS/m)	Actual (mS/m)	% Diff	P/F
Test 1	195.0	186.9	4.2	PASS
Test 2	97.0	94.1	2.9	PASS
Test 3	24.0	23.9	0.3	PASS

COMPANY: Dakota Technologies
OPERATOR: Michael C.
PROJECT ID: 0185.17
CLIENT: GHD
UNITS: ENGLISH
PROBE AND ARRAY: K6050 HPT Probe with Wenner
LOCATION: Toledo, OH
100 INCH STRING POT USED
ROD LENGTH: 4 feet

PRE-LOG HPT REFERENCE TEST VALUES (Post-Log From HPT-02.zip)

PRE TEST TIME: Mon Jul 31 2017 12:52:46

TEST	HPT PRESSURE (psi)	FLOW (mL/min)	HPT PRESSURE (kPa)
TOP with FLOW=0	13.545	0.0	93.390
TOP with FLOW>0	13.857	287.1	95.540
BOTTOM with FLOW=0	13.340	0.0	91.980
BOTTOM with FLOW>0	13.619	286.6	93.900

EXPECTED FLOW=0 HPT DIFF.: 0.22 psi (1.5 kPa) +/- 10%
ACTUAL FLOW=0 HPT DIFF.: 0.20 psi (1.4 kPa)

TRANSDUCER TEST PASSED

HPT IDEAL COEFFS: 2.2696e1,-2.2356
HPT SENSOR CAL NUMBERS: XD2251A,0.0000,0.0000,8.0000e-7,-4.0000e-5,1.0219,-3.6898
LOG START TIME: Mon Jul 31 2017 13:23:14

LOG END DEPTH: 20.75 ft (6.325 m)
LOG END TIME: Mon Jul 31 2017 14:06:09

LATITUDE: 0.000000000
LONGITUDE: 0.000000000
ELEVATION: 0.000 METERS 0.00 FEET
GPS Quality: None

POST-LOG HPT REFERENCE TEST VALUES

POST TEST TIME: Mon Jul 31 2017 14:13:24

TEST	HPT PRESSURE (psi)	FLOW (mL/min)	HPT PRESSURE (kPa)
TOP with FLOW=0	13.537	0.0	93.340
TOP with FLOW>0	13.830	292.9	95.350
BOTTOM with FLOW=0	13.327	0.0	91.890
BOTTOM with FLOW>0	13.605	294.5	93.800

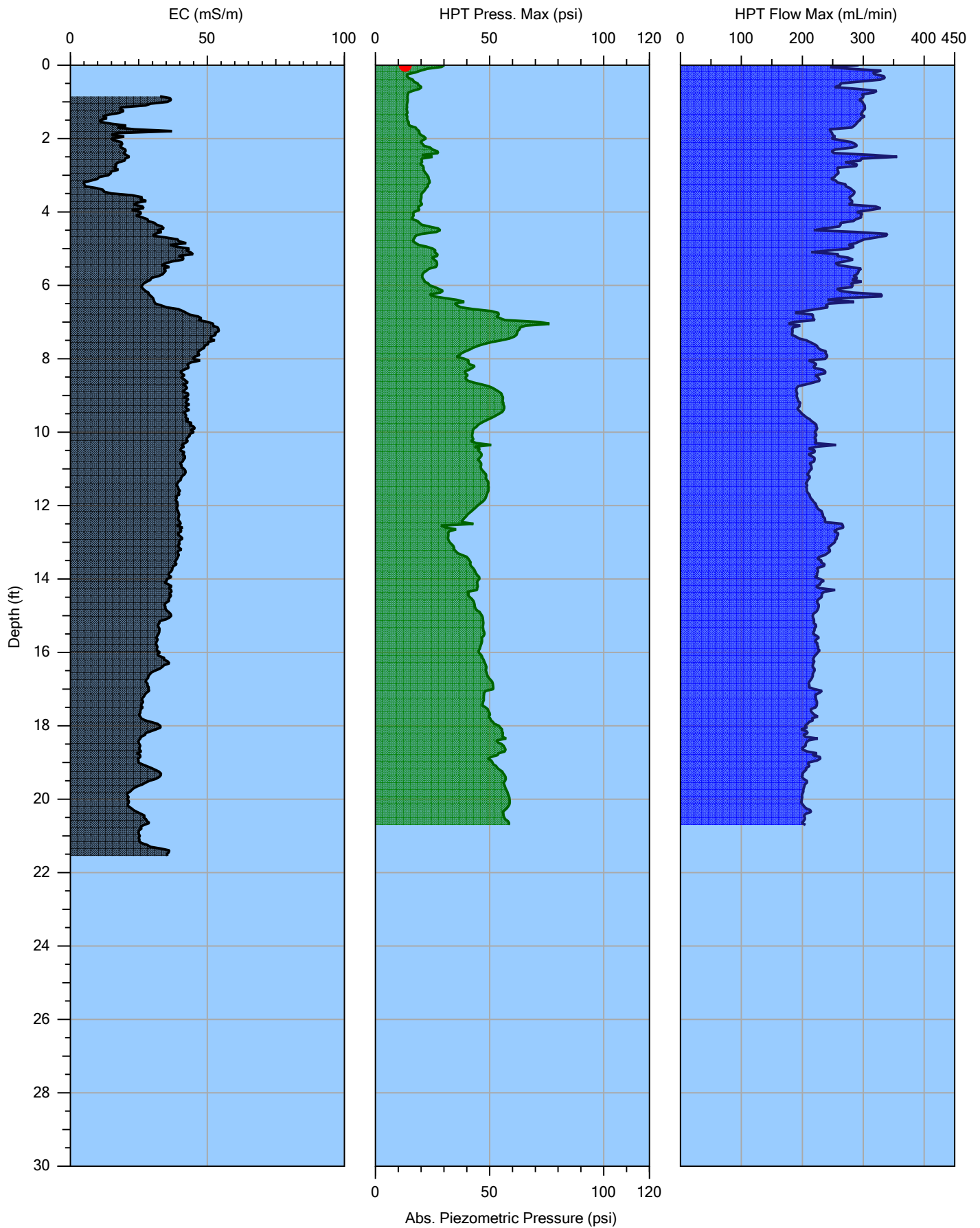
EXPECTED FLOW=0 HPT DIFF.: 0.22 psi (1.5 kPa) +/- 10%

ACTUAL FLOW=0 HPT DIFF.: 0.21 psi (1.4 kPa)

TRANSDUCER TEST PASSED

Post-Log EC Load Tests

Test	Target (mS/m)	Actual (mS/m)	% Diff	P/F
Test 1	195.0	187.8	3.7	PASS
Test 2	97.0	94.3	2.8	PASS
Test 3	24.0	24.0	0.2	PASS



Company: Dakota Technologies
Project ID: 0185.17

Operator: Michael C.
Client: GHD

File:	HPT-04.HPT
Date:	7/31/2017
Location:	

HPT-04.zip

SITE INFORMATION -- DIRECT IMAGE HPT PROBE

Geoprobe DI Acquisition Software for Windows
Version: 1.7 Build: 16064

Pre-Log EC Load Tests (Post-Log From HPT-03.zip)

Test	Target (mS/m)	Actual (mS/m)	% Diff	P/F
Test 1	195.0	187.8	3.7	PASS
Test 2	97.0	94.3	2.8	PASS
Test 3	24.0	24.0	0.2	PASS

COMPANY: Dakota Technologies
OPERATOR: Michael C.
PROJECT ID: 0185.17
CLIENT: GHD
UNITS: ENGLISH
PROBE AND ARRAY: K6050 HPT Probe with Wenner
LOCATION: Toledo, OH
100 INCH STRING POT USED
ROD LENGTH: 4 feet

PRE-LOG HPT REFERENCE TEST VALUES (Post-Log From HPT-03.zip)

PRE TEST TIME: Mon Jul 31 2017 14:13:24

TEST	HPT PRESSURE (psi)	FLOW (mL/min)	HPT PRESSURE (kPa)
TOP with FLOW=0	13.537	0.0	93.340
TOP with FLOW>0	13.830	292.9	95.350
BOTTOM with FLOW=0	13.327	0.0	91.890
BOTTOM with FLOW>0	13.605	294.5	93.800

EXPECTED FLOW=0 HPT DIFF.: 0.22 psi (1.5 kPa) +/- 10%
ACTUAL FLOW=0 HPT DIFF.: 0.21 psi (1.4 kPa)

TRANSDUCER TEST PASSED

HPT IDEAL COEFFS: 2.2696e1,-2.2356
HPT SENSOR CAL NUMBERS: XD2251A,0.0000,0.0000,8.0000e-7,-4.0000e-5,1.0219,-3.6898
LOG START TIME: Mon Jul 31 2017 14:43:05

LOG END DEPTH: 20.70 ft (6.309 m)
LOG END TIME: Mon Jul 31 2017 15:28:31

LATITUDE: 0.000000000
LONGITUDE: 0.000000000
ELEVATION: 0.000 METERS 0.00 FEET
GPS Quality: None

POST-LOG HPT REFERENCE TEST VALUES

POST TEST TIME: Mon Jul 31 2017 15:36:15

TEST	HPT PRESSURE (psi)	FLOW (mL/min)	HPT PRESSURE (kPa)
TOP with FLOW=0	13.523	0.0	93.240
TOP with FLOW>0	13.812	292.0	95.230
BOTTOM with FLOW=0	13.314	0.0	91.800
BOTTOM with FLOW>0	13.591	293.6	93.710

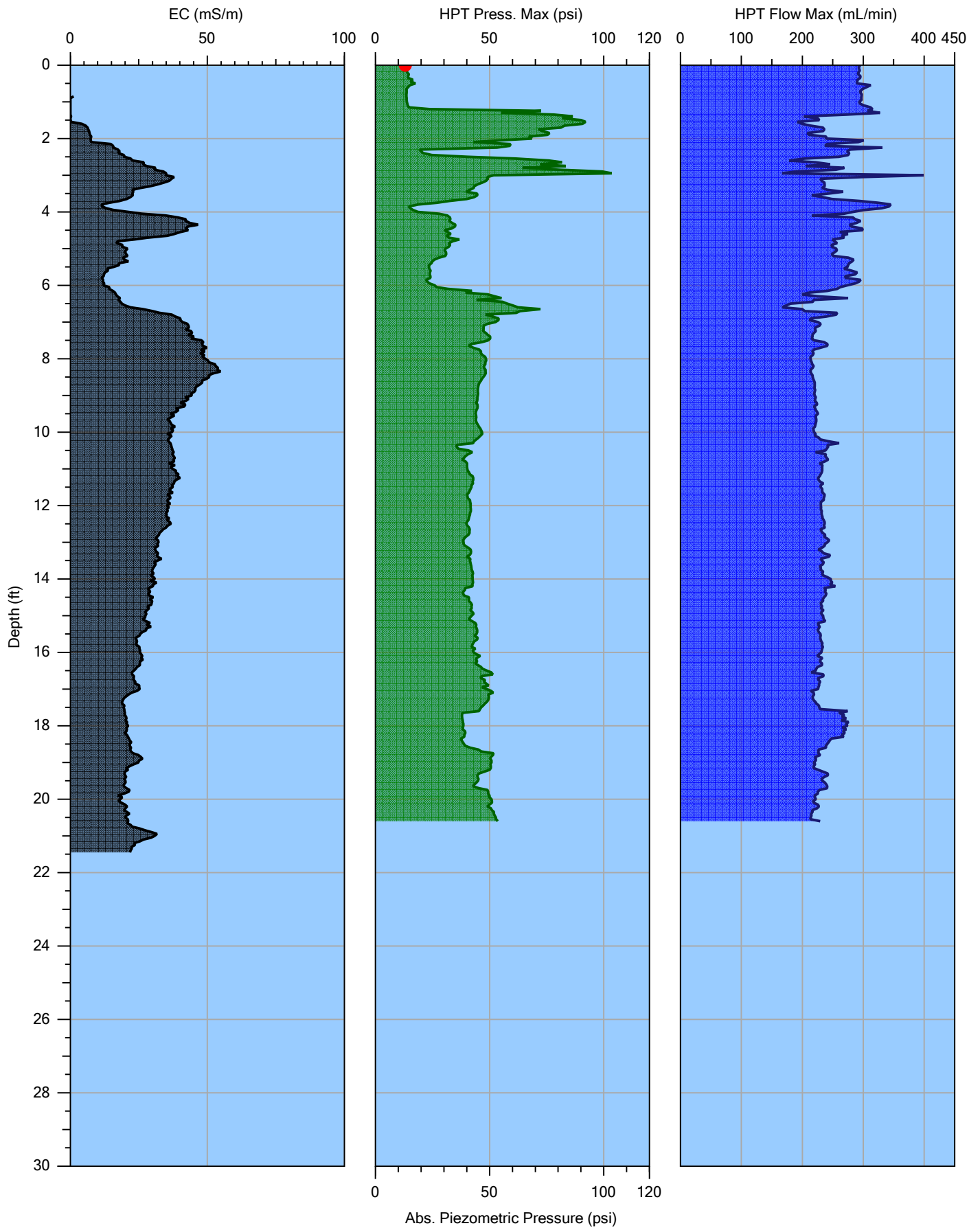
EXPECTED FLOW=0 HPT DIFF.: 0.22 psi (1.5 kPa) +/- 10%

ACTUAL FLOW=0 HPT DIFF.: 0.21 psi (1.4 kPa)

TRANSDUCER TEST PASSED

Post-Log EC Load Tests

Test	Target (mS/m)	Actual (mS/m)	% Diff	P/F
Test 1	195.0	189.3	2.9	PASS
Test 2	97.0	94.6	2.5	PASS
Test 3	24.0	24.1	0.3	PASS



Company: Dakota Technologies
Project ID: 0185.17

Operator: Michael C.
Client: GHD

File:	HPT-05.HPT
Date:	8/1/2017
Location:	

HPT-05.zip

SITE INFORMATION -- DIRECT IMAGE HPT PROBE

Geoprobe DI Acquisition Software for Windows
Version: 1.7 Build: 16064

Pre-Log EC Load Tests

Test	Target (mS/m)	Actual (mS/m)	% Diff	P/F
Test 1	195.0	188.4	3.4	PASS
Test 2	97.0	94.3	2.8	PASS
Test 3	24.0	23.8	0.7	PASS

COMPANY: Dakota Technologies
OPERATOR: Michael C.
PROJECT ID: 0185.17
CLIENT: GHD
UNITS: ENGLISH
PROBE AND ARRAY: K6050 HPT Probe with Wenner
LOCATION: Toledo, OH
100 INCH STRING POT USED
ROD LENGTH: 4 feet

PRE-LOG HPT REFERENCE TEST VALUES

PRE TEST TIME: Tue Aug 1 2017 07:28:14

TEST	HPT PRESSURE (psi)	FLOW (mL/min)	HPT PRESSURE (kPa)
TOP with FLOW=0	13.550	0.0	93.420
TOP with FLOW>0	13.867	290.6	95.610
BOTTOM with FLOW=0	13.343	0.0	91.990
BOTTOM with FLOW>0	13.670	290.7	94.250

EXPECTED FLOW=0 HPT DIFF.: 0.22 psi (1.5 kPa) +/- 10%
ACTUAL FLOW=0 HPT DIFF.: 0.21 psi (1.4 kPa)

TRANSDUCER TEST PASSED

HPT IDEAL COEFFS: 2.2696e1,-2.2356
HPT SENSOR CAL NUMBERS: XD2251A,0.0000,0.0000,8.0000e-7,-4.0000e-5,1.0219,-3.6898
LOG START TIME: Tue Aug 1 2017 07:32:25

LOG END DEPTH: 20.60 ft (6.279 m)
LOG END TIME: Tue Aug 1 2017 07:59:35

LATITUDE: 0.000000000
LONGITUDE: 0.000000000
ELEVATION: 0.000 METERS 0.00 FEET
GPS Quality: None

POST-LOG HPT REFERENCE TEST VALUES

POST TEST TIME: Tue Aug 1 2017 08:08:24

TEST	HPT PRESSURE (psi)	FLOW (mL/min)	HPT PRESSURE (kPa)
TOP with FLOW=0	13.534	0.0	93.310
TOP with FLOW>0	13.832	287.8	95.370
BOTTOM with FLOW=0	13.332	0.0	91.920
BOTTOM with FLOW>0	13.625	291.1	93.940

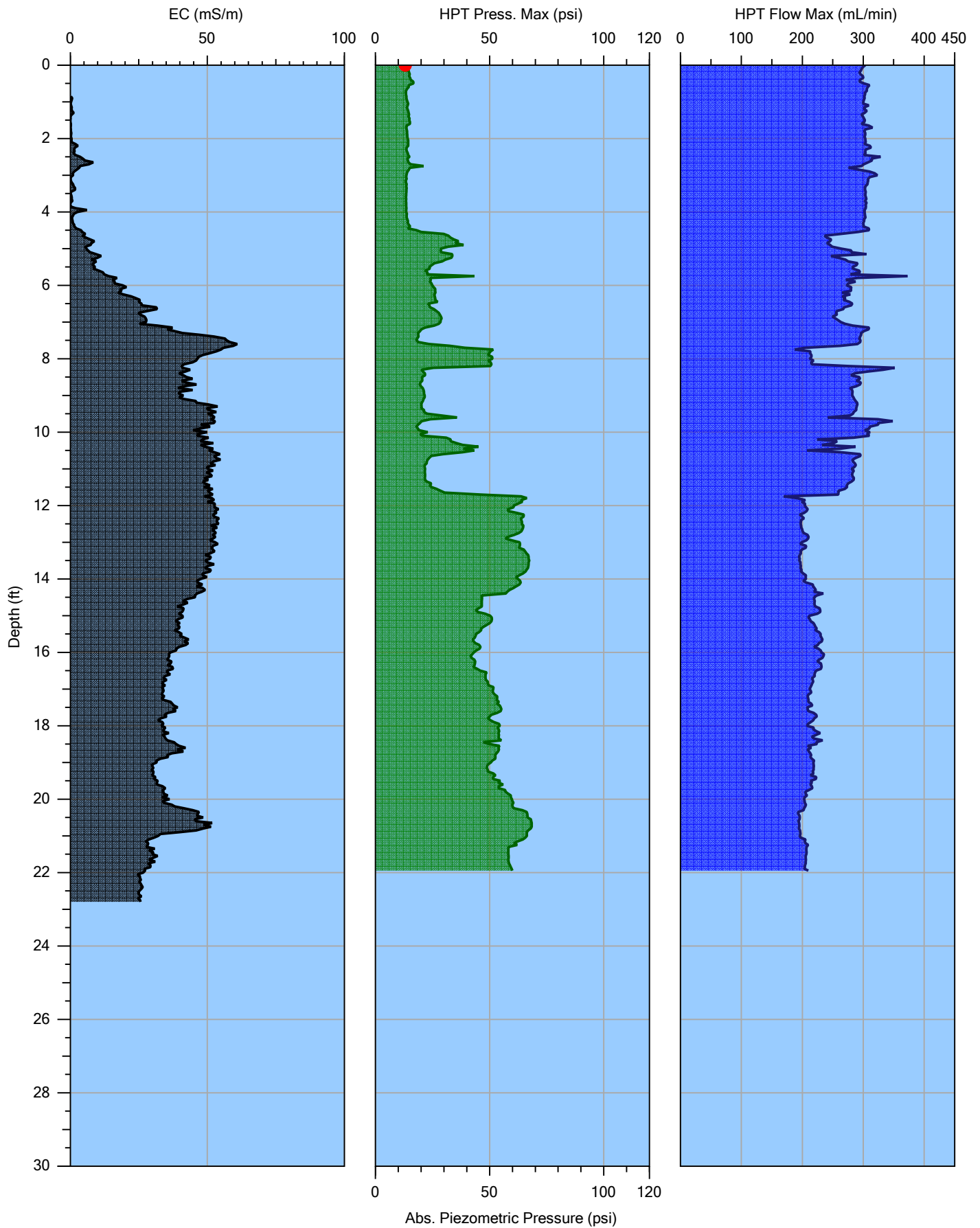
EXPECTED FLOW=0 HPT DIFF.: 0.22 psi (1.5 kPa) +/- 10%

ACTUAL FLOW=0 HPT DIFF.: 0.20 psi (1.4 kPa)

TRANSDUCER TEST PASSED

Post-Log EC Load Tests

Test	Target (mS/m)	Actual (mS/m)	% Diff	P/F
Test 1	195.0	189.8	2.7	PASS
Test 2	97.0	96.5	0.6	PASS
Test 3	24.0	23.6	1.5	PASS



Company: Dakota Technologies
Project ID: 0185.17

Operator: Michael C.
Client: GHD

File:	HPT-06.HPT
Date:	8/1/2017
Location:	

HPT-06.zip

SITE INFORMATION -- DIRECT IMAGE HPT PROBE

Geoprobe DI Acquisition Software for Windows
Version: 1.7 Build: 16064

Pre-Log EC Load Tests (Post-Log From HPT-05.zip)

Test	Target (mS/m)	Actual (mS/m)	% Diff	P/F
Test 1	195.0	189.8	2.7	PASS
Test 2	97.0	96.5	0.6	PASS
Test 3	24.0	23.6	1.5	PASS

COMPANY: Dakota Technologies
OPERATOR: Michael C.
PROJECT ID: 0185.17
CLIENT: GHD
UNITS: ENGLISH
PROBE AND ARRAY: K6050 HPT Probe with Wenner
LOCATION: Toledo, OH
100 INCH STRING POT USED
ROD LENGTH: 4 feet

PRE-LOG HPT REFERENCE TEST VALUES (Post-Log From HPT-05.zip)

PRE TEST TIME: Tue Aug 1 2017 08:08:24

TEST	HPT PRESSURE (psi)	FLOW (mL/min)	HPT PRESSURE (kPa)
TOP with FLOW=0	13.534	0.0	93.310
TOP with FLOW>0	13.832	287.8	95.370
BOTTOM with FLOW=0	13.332	0.0	91.920
BOTTOM with FLOW>0	13.625	291.1	93.940

EXPECTED FLOW=0 HPT DIFF.: 0.22 psi (1.5 kPa) +/- 10%
ACTUAL FLOW=0 HPT DIFF.: 0.20 psi (1.4 kPa)

TRANSDUCER TEST PASSED

HPT IDEAL COEFFS: 2.2696e1,-2.2356
HPT SENSOR CAL NUMBERS: XD2251A,0.0000,0.0000,8.0000e-7,-4.0000e-5,1.0219,-3.6898
LOG START TIME: Tue Aug 1 2017 08:10:41

LOG END DEPTH: 21.95 ft (6.690 m)
LOG END TIME: Tue Aug 1 2017 09:03:12

LATITUDE: 0.000000000
LONGITUDE: 0.000000000
ELEVATION: 0.000 METERS 0.00 FEET
GPS Quality: None

POST-LOG HPT REFERENCE TEST VALUES

POST TEST TIME: Tue Aug 1 2017 09:12:34

TEST	HPT PRESSURE (psi)	FLOW (mL/min)	HPT PRESSURE (kPa)
TOP with FLOW=0	13.516	0.0	93.190
TOP with FLOW>0	13.817	287.1	95.260
BOTTOM with FLOW=0	13.314	0.0	91.790
BOTTOM with FLOW>0	13.601	287.6	93.780

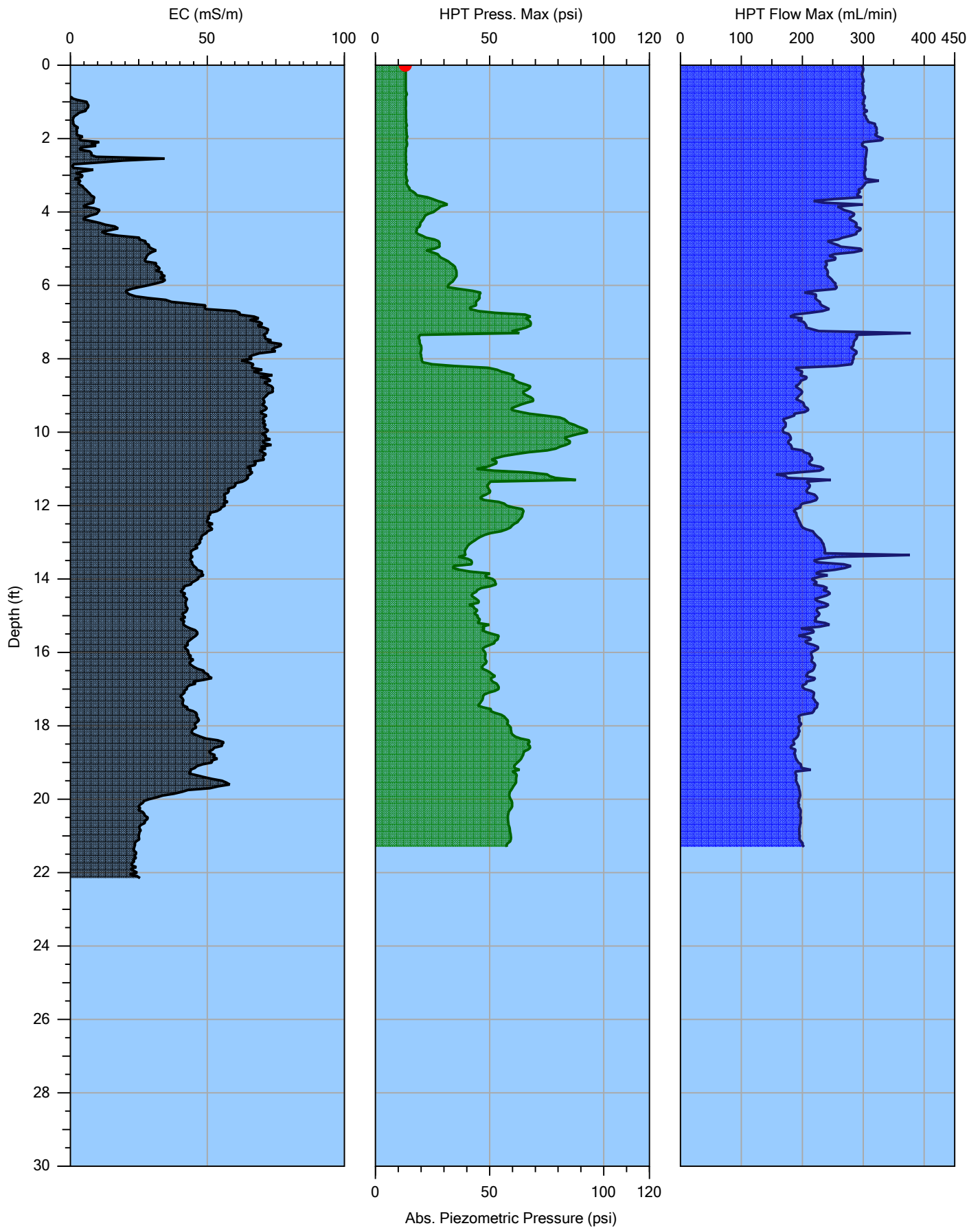
EXPECTED FLOW=0 HPT DIFF.: 0.22 psi (1.5 kPa) +/- 10%

ACTUAL FLOW=0 HPT DIFF.: 0.20 psi (1.4 kPa)

TRANSDUCER TEST PASSED

Post-Log EC Load Tests

Test	Target (mS/m)	Actual (mS/m)	% Diff	P/F
Test 1	195.0	185.2	5.0	PASS
Test 2	97.0	95.8	1.3	PASS
Test 3	24.0	23.9	0.2	PASS



Company: Dakota Technologies
Project ID: 0185.17

Operator: Michael C.
Client: GHD

File:	HPT-07.HPT
Date:	8/1/2017
Location:	

HPT-07.zip

SITE INFORMATION -- DIRECT IMAGE HPT PROBE

Geoprobe DI Acquisition Software for Windows
Version: 1.7 Build: 16064

EC PRE-LOG TESTS BYPASSED

COMPANY: Dakota Technologies
OPERATOR: Michael C.
PROJECT ID: 0185.17
CLIENT: GHD
UNITS: ENGLISH
PROBE AND ARRAY: K6050 HPT Probe with Wenner
LOCATION: Toledo, OH
100 INCH STRING POT USED
ROD LENGTH: 4 feet

PRE-LOG HPT REFERENCE TEST VALUES

PRE TEST TIME: Tue Aug 1 2017 09:57:54

PRE-LOG HPT REFERENCE TESTS BYPASSED

HPT IDEAL COEFFS: 2.2696e1,-2.2356
HPT SENSOR CAL NUMBERS: XD2251A,0.0000,0.0000,8.0000e-7,-4.0000e-5,1.0219,-3.6898
LOG START TIME: Tue Aug 1 2017 09:57:56

LOG END DEPTH: 21.30 ft (6.492 m)
LOG END TIME: Tue Aug 1 2017 10:26:02

LATITUDE: 0.000000000
LONGITUDE: 0.000000000
ELEVATION: 0.000 METERS 0.00 FEET
GPS Quality: None

POST-LOG HPT REFERENCE TEST VALUES

POST TEST TIME: Tue Aug 1 2017 10:35:47

TEST	HPT PRESSURE (psi)	FLOW (mL/min)	HPT PRESSURE (kPa)
TOP with FLOW=0	13.501	0.0	93.090
TOP with FLOW>0	13.792	291.1	95.090
BOTTOM with FLOW=0	13.297	0.0	91.680
BOTTOM with FLOW>0	13.559	292.3	93.480

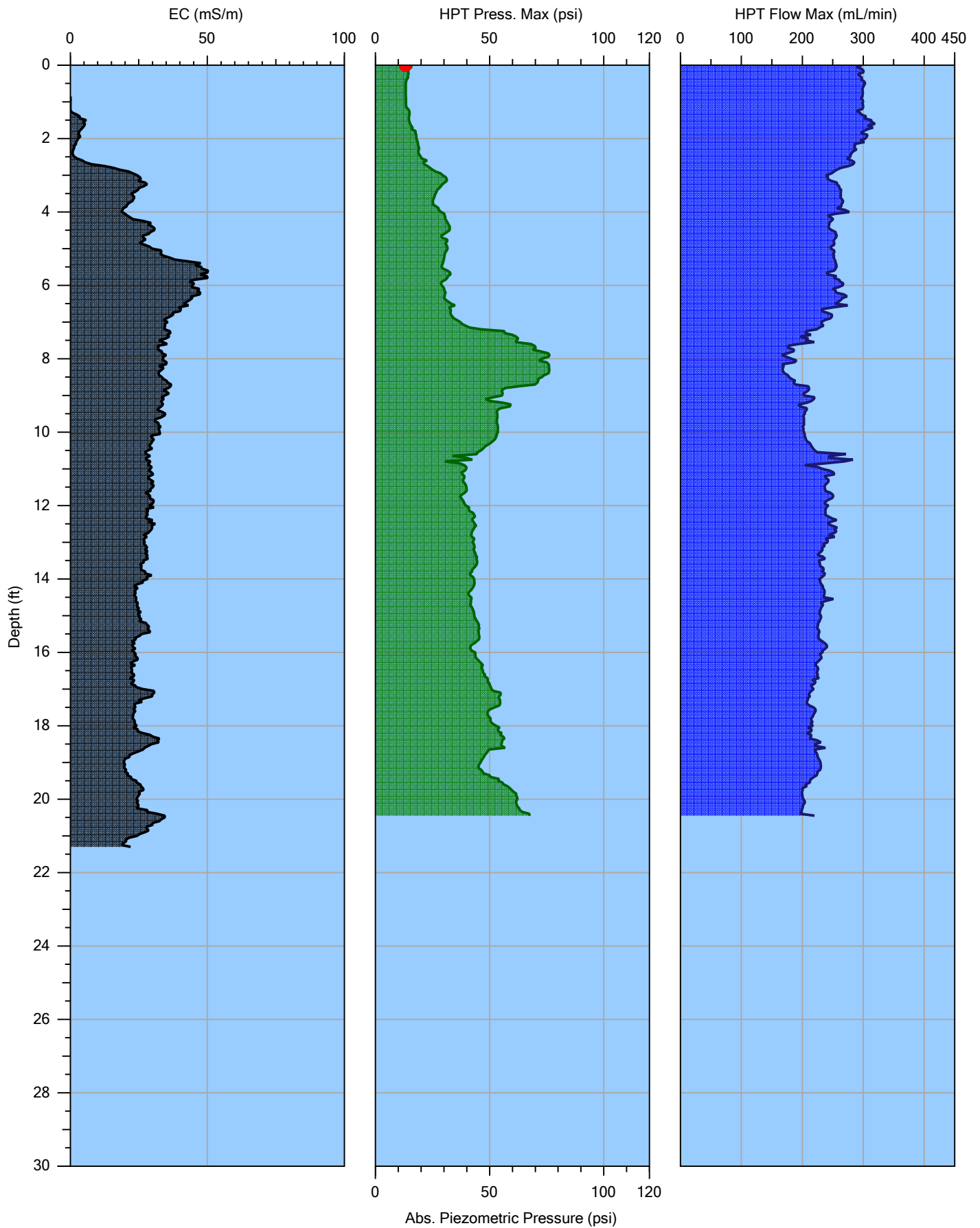
EXPECTED FLOW=0 HPT DIFF.: 0.22 psi (1.5 kPa) +/- 10%
ACTUAL FLOW=0 HPT DIFF.: 0.20 psi (1.4 kPa)

TRANSDUCER TEST PASSED

Post-Log EC Load Tests

Test	Target (mS/m)	Actual (mS/m)	% Diff	P/F

Test 1	195.0	188.0	3.6	PASS
Test 2	97.0	94.4	2.7	PASS
Test 3	24.0	24.0	0.1	PASS



HPT-08.zip

SITE INFORMATION -- DIRECT IMAGE HPT PROBE

Geoprobe DI Acquisition Software for Windows
Version: 1.7 Build: 16064

Pre-Log EC Load Tests

Test	Target (mS/m)	Actual (mS/m)	% Diff	P/F
Test 1	195.0	189.1	3.0	PASS
Test 2	97.0	92.3	4.8	PASS
Test 3	24.0	24.4	1.5	PASS

COMPANY: Dakota Technologies
OPERATOR: Michael C.
PROJECT ID: 0185.17
CLIENT: GHD
UNITS: ENGLISH
PROBE AND ARRAY: K6050 HPT Probe with Wenner
LOCATION: Toledo, OH
100 INCH STRING POT USED
ROD LENGTH: 4 feet

PRE-LOG HPT REFERENCE TEST VALUES

PRE TEST TIME: Tue Aug 1 2017 12:56:27

TEST	HPT PRESSURE (psi)	FLOW (mL/min)	HPT PRESSURE (kPa)
TOP with FLOW=0	13.502	0.0	93.090
TOP with FLOW>0	13.778	291.4	94.990
BOTTOM with FLOW=0	13.281	0.0	91.570
BOTTOM with FLOW>0	13.559	290.8	93.490

EXPECTED FLOW=0 HPT DIFF.: 0.22 psi (1.5 kPa) +/- 10%
ACTUAL FLOW=0 HPT DIFF.: 0.22 psi (1.5 kPa)

TRANSDUCER TEST PASSED

HPT IDEAL COEFFS: 2.2696e1,-2.2356
HPT SENSOR CAL NUMBERS: XD2251A,0.0000,0.0000,8.0000e-7,-4.0000e-5,1.0219,-3.6898
LOG START TIME: Tue Aug 1 2017 12:59:10

LOG END DEPTH: 20.45 ft (6.233 m)
LOG END TIME: Tue Aug 1 2017 13:27:12

LATITUDE: 0.000000000
LONGITUDE: 0.000000000
ELEVATION: 0.000 METERS 0.00 FEET
GPS Quality: None

POST-LOG HPT REFERENCE TEST VALUES

POST TEST TIME: Tue Aug 1 2017 13:36:25

TEST	HPT PRESSURE (psi)	FLOW (mL/min)	HPT PRESSURE (kPa)
TOP with FLOW=0	13.473	0.0	92.890
TOP with FLOW>0	13.765	292.0	94.910
BOTTOM with FLOW=0	13.270	0.0	91.490
BOTTOM with FLOW>0	13.537	294.4	93.340

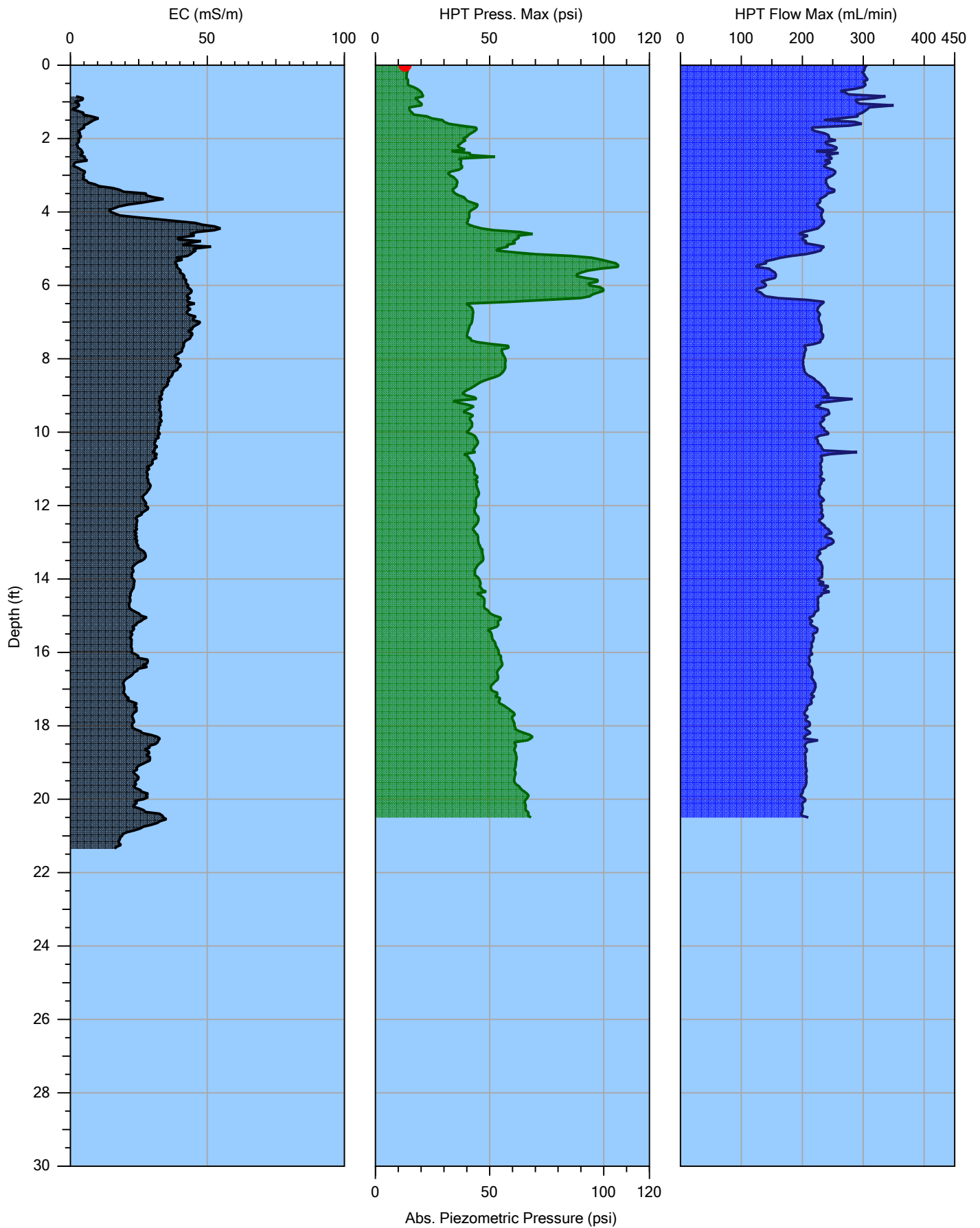
EXPECTED FLOW=0 HPT DIFF.: 0.22 psi (1.5 kPa) +/- 10%

ACTUAL FLOW=0 HPT DIFF.: 0.20 psi (1.4 kPa)

TRANSDUCER TEST PASSED

Post-Log EC Load Tests

Test	Target (mS/m)	Actual (mS/m)	% Diff	P/F
Test 1	195.0	187.2	4.0	PASS
Test 2	97.0	93.8	3.3	PASS
Test 3	24.0	24.1	0.5	PASS



Company:
Dakota Technologies

Project ID:
0185.17

Operator:
Michael C.

Client:
GHD

File:	HPT-09.HPT
Date:	8/1/2017
Location:	

HPT-09.zip

SITE INFORMATION -- DIRECT IMAGE HPT PROBE

Geoprobe DI Acquisition Software for Windows
Version: 1.7 Build: 16064

Pre-Log EC Load Tests (Post-Log From HPT-08.zip)

Test	Target (mS/m)	Actual (mS/m)	% Diff	P/F
Test 1	195.0	187.2	4.0	PASS
Test 2	97.0	93.8	3.3	PASS
Test 3	24.0	24.1	0.5	PASS

COMPANY: Dakota Technologies
OPERATOR: Michael C.
PROJECT ID: 0185.17
CLIENT: GHD
UNITS: ENGLISH
PROBE AND ARRAY: K6050 HPT Probe with Wenner
LOCATION: Toledo, OH
100 INCH STRING POT USED
ROD LENGTH: 4 feet

PRE-LOG HPT REFERENCE TEST VALUES (Post-Log From HPT-08.zip)

PRE TEST TIME: Tue Aug 1 2017 13:36:25

TEST	HPT PRESSURE (psi)	FLOW (mL/min)	HPT PRESSURE (kPa)
TOP with FLOW=0	13.473	0.0	92.890
TOP with FLOW>0	13.765	292.0	94.910
BOTTOM with FLOW=0	13.270	0.0	91.490
BOTTOM with FLOW>0	13.537	294.4	93.340

EXPECTED FLOW=0 HPT DIFF.: 0.22 psi (1.5 kPa) +/- 10%
ACTUAL FLOW=0 HPT DIFF.: 0.20 psi (1.4 kPa)

TRANSDUCER TEST PASSED

HPT IDEAL COEFFS: 2.2696e1,-2.2356
HPT SENSOR CAL NUMBERS: XD2251A,0.0000,0.0000,8.0000e-7,-4.0000e-5,1.0219,-3.6898
LOG START TIME: Tue Aug 1 2017 13:42:55

LOG END DEPTH: 20.50 ft (6.248 m)
LOG END TIME: Tue Aug 1 2017 14:35:17

LATITUDE: 0.000000000
LONGITUDE: 0.000000000
ELEVATION: 0.000 METERS 0.00 FEET
GPS Quality: None

POST-LOG HPT REFERENCE TEST VALUES

POST TEST TIME: Tue Aug 1 2017 14:41:37

TEST	HPT PRESSURE (psi)	FLOW (mL/min)	HPT PRESSURE (kPa)
TOP with FLOW=0	13.475	0.0	92.910
TOP with FLOW>0	13.741	292.6	94.740
BOTTOM with FLOW=0	13.271	0.0	91.500
BOTTOM with FLOW>0	13.543	294.6	93.380

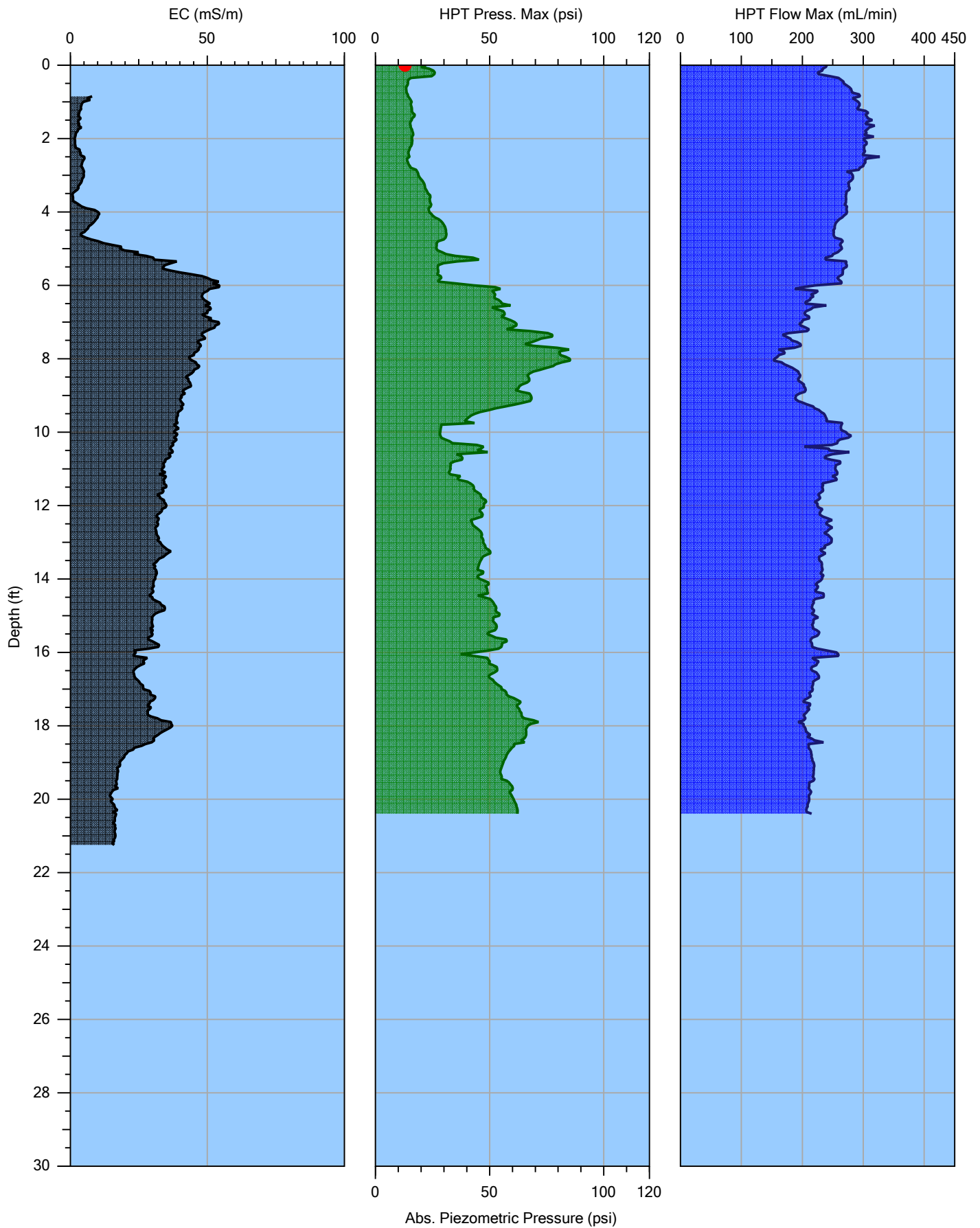
EXPECTED FLOW=0 HPT DIFF.: 0.22 psi (1.5 kPa) +/- 10%

ACTUAL FLOW=0 HPT DIFF.: 0.20 psi (1.4 kPa)

TRANSDUCER TEST PASSED

Post-Log EC Load Tests

Test	Target (mS/m)	Actual (mS/m)	% Diff	P/F
Test 1	195.0	188.2	3.5	PASS
Test 2	97.0	94.3	2.8	PASS
Test 3	24.0	24.1	0.3	PASS



Company:
Dakota Technologies

Project ID:
0185.17

Operator:
Michael C.

Client:
GHD

File:	HPT-10.HPT
Date:	8/1/2017
Location:	

HPT-10.zip

SITE INFORMATION -- DIRECT IMAGE HPT PROBE

Geoprobe DI Acquisition Software for Windows
Version: 1.7 Build: 16064

Pre-Log EC Load Tests (Post-Log From HPT-09.zip)

Test	Target (mS/m)	Actual (mS/m)	% Diff	P/F
Test 1	195.0	188.2	3.5	PASS
Test 2	97.0	94.3	2.8	PASS
Test 3	24.0	24.1	0.3	PASS

COMPANY: Dakota Technologies
OPERATOR: Michael C.
PROJECT ID: 0185.17
CLIENT: GHD
UNITS: ENGLISH
PROBE AND ARRAY: K6050 HPT Probe with Wenner
LOCATION: Toledo, OH
100 INCH STRING POT USED
ROD LENGTH: 4 feet

PRE-LOG HPT REFERENCE TEST VALUES (Post-Log From HPT-09.zip)

PRE TEST TIME: Tue Aug 1 2017 14:41:37

TEST	HPT PRESSURE (psi)	FLOW (mL/min)	HPT PRESSURE (kPa)
TOP with FLOW=0	13.475	0.0	92.910
TOP with FLOW>0	13.741	292.6	94.740
BOTTOM with FLOW=0	13.271	0.0	91.500
BOTTOM with FLOW>0	13.543	294.6	93.380

EXPECTED FLOW=0 HPT DIFF.: 0.22 psi (1.5 kPa) +/- 10%
ACTUAL FLOW=0 HPT DIFF.: 0.20 psi (1.4 kPa)

TRANSDUCER TEST PASSED

HPT IDEAL COEFFS: 2.2696e1,-2.2356
HPT SENSOR CAL NUMBERS: XD2251A,0.0000,0.0000,8.0000e-7,-4.0000e-5,1.0219,-3.6898
LOG START TIME: Tue Aug 1 2017 14:45:49

LOG END DEPTH: 20.40 ft (6.218 m)
LOG END TIME: Tue Aug 1 2017 15:41:58

LATITUDE: 0.000000000
LONGITUDE: 0.000000000
ELEVATION: 0.000 METERS 0.00 FEET
GPS Quality: None

POST-LOG HPT REFERENCE TEST VALUES

POST TEST TIME: Tue Aug 1 2017 15:52:35

TEST	HPT PRESSURE (psi)	FLOW (mL/min)	HPT PRESSURE (kPa)
TOP with FLOW=0	13.458	0.0	92.790
TOP with FLOW>0	13.708	265.9	94.520
BOTTOM with FLOW=0	13.252	0.0	91.370
BOTTOM with FLOW>0	13.494	266.9	93.040

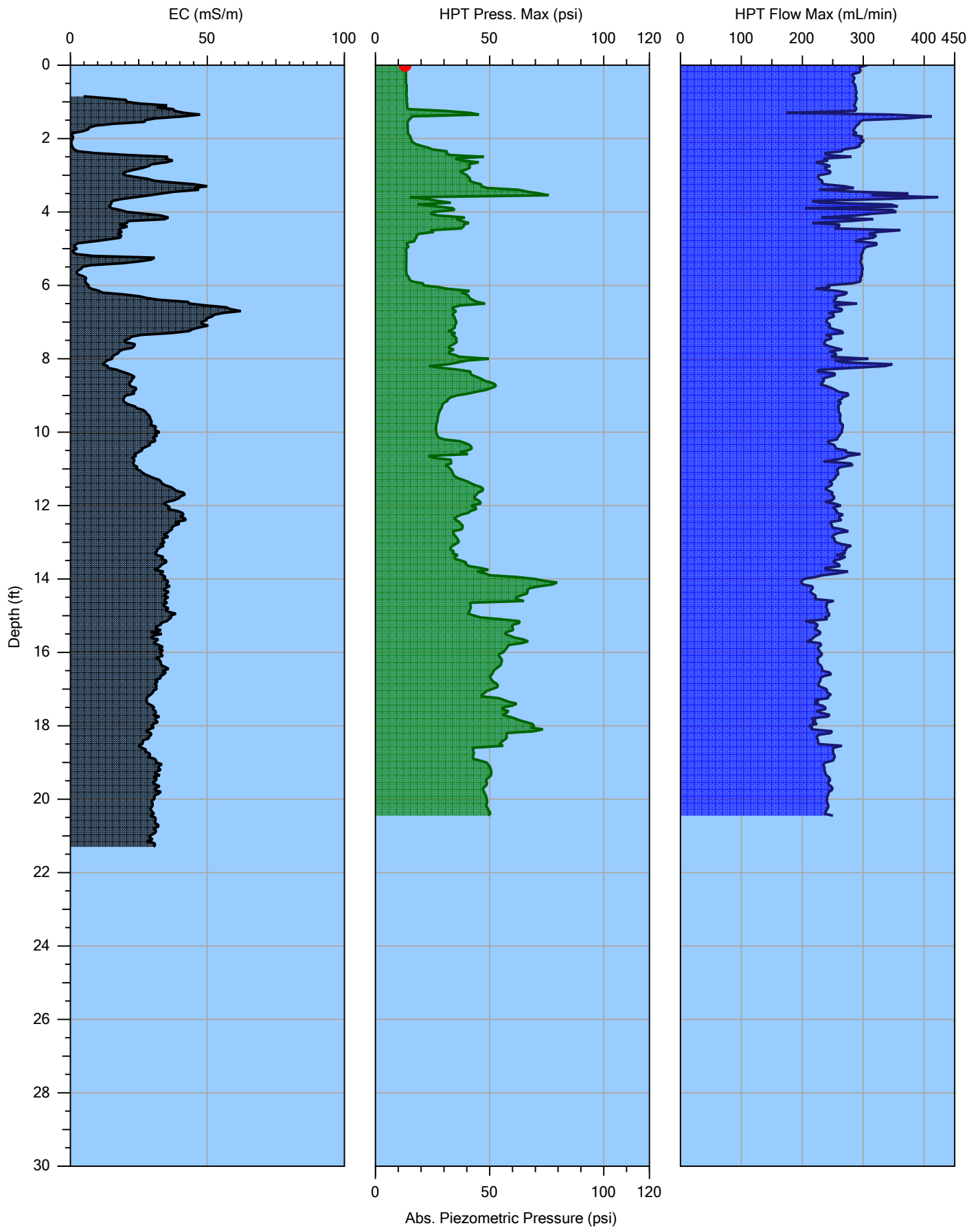
EXPECTED FLOW=0 HPT DIFF.: 0.22 psi (1.5 kPa) +/- 10%

ACTUAL FLOW=0 HPT DIFF.: 0.21 psi (1.4 kPa)

TRANSDUCER TEST PASSED

Post-Log EC Load Tests

Test	Target (mS/m)	Actual (mS/m)	% Diff	P/F
Test 1	195.0	188.1	3.5	PASS
Test 2	97.0	94.7	2.3	PASS
Test 3	24.0	24.1	0.2	PASS



Company: Dakota Technologies
Project ID: 0185.17

Operator: Michael C.
Client: GHD

File:	HPT-11.HPT
Date:	8/2/2017
Location:	

HPT-11.zip

SITE INFORMATION -- DIRECT IMAGE HPT PROBE

Geoprobe DI Acquisition Software for Windows
Version: 1.7 Build: 16064

Pre-Log EC Load Tests

Test	Target (mS/m)	Actual (mS/m)	% Diff	P/F
Test 1	195.0	189.7	2.7	PASS
Test 2	97.0	94.6	2.4	PASS
Test 3	24.0	24.0	0.1	PASS

COMPANY: Dakota Technologies
OPERATOR: Michael C.
PROJECT ID: 0185.17
CLIENT: GHD
UNITS: ENGLISH
PROBE AND ARRAY: K6050 HPT Probe with Wenner
LOCATION: Toledo, OH
100 INCH STRING POT USED
ROD LENGTH: 4 feet

PRE-LOG HPT REFERENCE TEST VALUES

PRE TEST TIME: Wed Aug 2 2017 07:23:35

TEST	HPT PRESSURE (psi)	FLOW (mL/min)	HPT PRESSURE (kPa)
TOP with FLOW=0	13.486	0.0	92.980
TOP with FLOW>0	13.797	282.0	95.130
BOTTOM with FLOW=0	13.269	0.0	91.490
BOTTOM with FLOW>0	13.568	283.5	93.550

EXPECTED FLOW=0 HPT DIFF.: 0.22 psi (1.5 kPa) +/- 10%
ACTUAL FLOW=0 HPT DIFF.: 0.22 psi (1.5 kPa)

TRANSDUCER TEST PASSED

HPT IDEAL COEFFS: 2.2696e1,-2.2356
HPT SENSOR CAL NUMBERS: XD2251A,0.0000,0.0000,8.0000e-7,-4.0000e-5,1.0219,-3.6898
LOG START TIME: Wed Aug 2 2017 07:28:00

LOG END DEPTH: 20.45 ft (6.233 m)
LOG END TIME: Wed Aug 2 2017 07:53:25

LATITUDE: 0.000000000
LONGITUDE: 0.000000000
ELEVATION: 0.000 METERS 0.00 FEET
GPS Quality: None

POST-LOG HPT REFERENCE TEST VALUES

POST TEST TIME: Wed Aug 2 2017 08:00:40

TEST	HPT PRESSURE (psi)	FLOW (mL/min)	HPT PRESSURE (kPa)
TOP with FLOW=0	13.470	0.0	92.870
TOP with FLOW>0	13.774	286.1	94.970
BOTTOM with FLOW=0	13.268	0.0	91.480
BOTTOM with FLOW>0	13.564	287.2	93.520

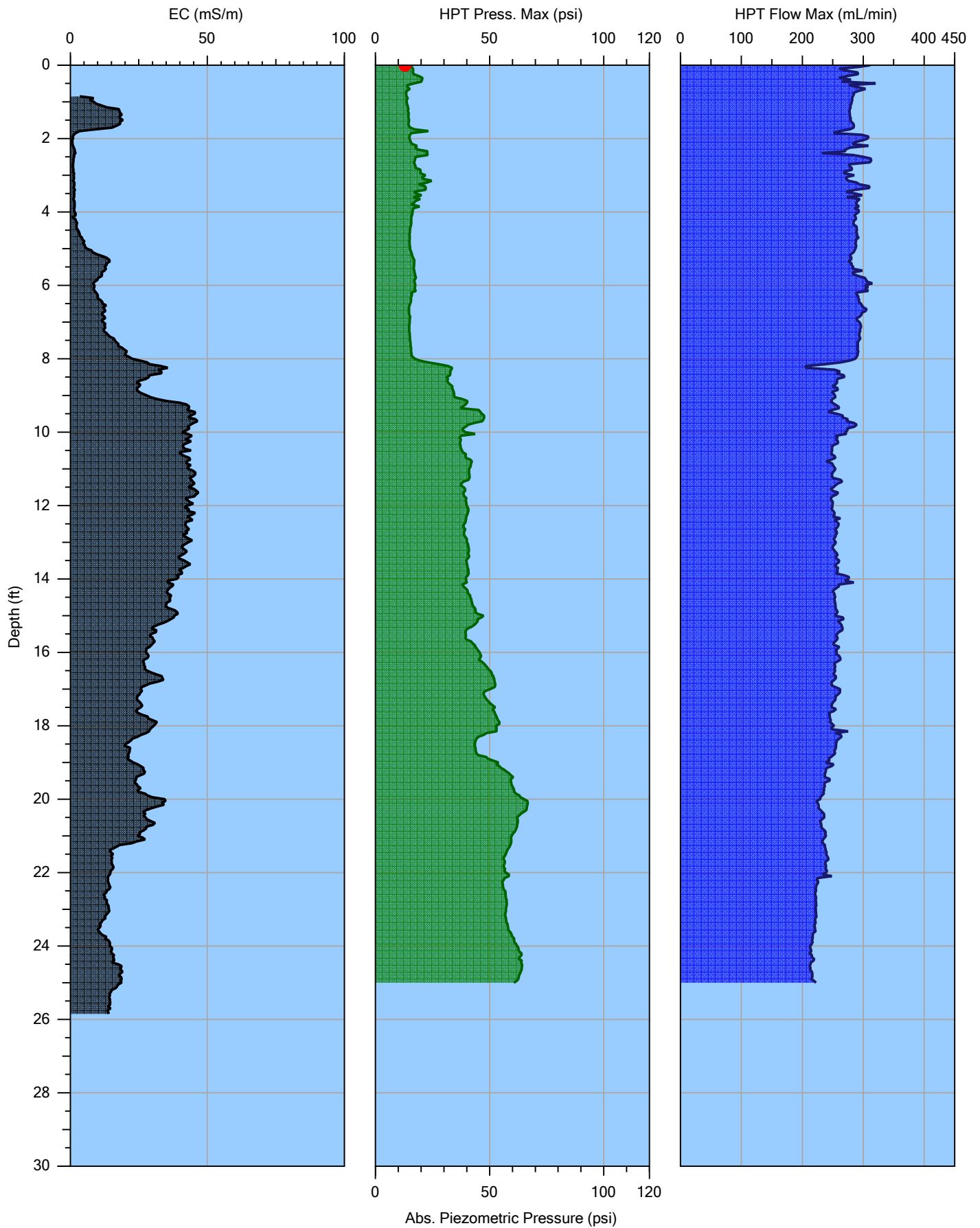
EXPECTED FLOW=0 HPT DIFF.: 0.22 psi (1.5 kPa) +/- 10%

ACTUAL FLOW=0 HPT DIFF.: 0.20 psi (1.4 kPa)

TRANSDUCER TEST PASSED

Post-Log EC Load Tests

Test	Target (mS/m)	Actual (mS/m)	% Diff	P/F
Test 1	195.0	192.1	1.5	PASS
Test 2	97.0	95.8	1.3	PASS
Test 3	24.0	23.6	1.5	PASS



Company:
Dakota Technologies

Project ID:
0185.17

Operator:
Michael C.

Client:
GHD

File:	HPT-12.HPT
Date:	8/2/2017
Location:	

HPT-12.zip

SITE INFORMATION -- DIRECT IMAGE HPT PROBE

Geoprobe DI Acquisition Software for Windows
Version: 1.7 Build: 16064

Pre-Log EC Load Tests

Test	Target (mS/m)	Actual (mS/m)	% Diff	P/F
Test 1	195.0	185.2	5.0	PASS
Test 2	97.0	93.9	3.2	PASS
Test 3	24.0	23.6	1.5	PASS

COMPANY: Dakota Technologies
OPERATOR: Michael C.
PROJECT ID: 0185.17
CLIENT: GHD
UNITS: ENGLISH
PROBE AND ARRAY: K6050 HPT Probe with Wenner
LOCATION: Toledo, OH
100 INCH STRING POT USED
ROD LENGTH: 4 feet

PRE-LOG HPT REFERENCE TEST VALUES

PRE TEST TIME: Wed Aug 2 2017 09:57:37

TEST	HPT PRESSURE (psi)	FLOW (mL/min)	HPT PRESSURE (kPa)
TOP with FLOW=0	13.475	0.0	92.910
TOP with FLOW>0	13.771	281.4	94.950
BOTTOM with FLOW=0	13.268	0.0	91.480
BOTTOM with FLOW>0	13.571	279.9	93.570

EXPECTED FLOW=0 HPT DIFF.: 0.22 psi (1.5 kPa) +/- 10%
ACTUAL FLOW=0 HPT DIFF.: 0.21 psi (1.4 kPa)

TRANSDUCER TEST PASSED

HPT IDEAL COEFFS: 2.2696e1,-2.2356
HPT SENSOR CAL NUMBERS: XD2251A,0.0000,0.0000,8.0000e-7,-4.0000e-5,1.0219,-3.6898
LOG START TIME: Wed Aug 2 2017 10:02:01

LOG END DEPTH: 25.00 ft (7.620 m)
LOG END TIME: Wed Aug 2 2017 10:23:30

LATITUDE: 0.000000000
LONGITUDE: 0.000000000
ELEVATION: 0.000 METERS 0.00 FEET
GPS Quality: None

POST-LOG HPT REFERENCE TEST VALUES

POST TEST TIME: Wed Aug 2 2017 10:33:07

TEST	HPT PRESSURE (psi)	FLOW (mL/min)	HPT PRESSURE (kPa)
TOP with FLOW=0	13.480	0.0	92.940
TOP with FLOW>0	13.768	285.1	94.930
BOTTOM with FLOW=0	13.274	0.0	91.520
BOTTOM with FLOW>0	13.544	284.1	93.380

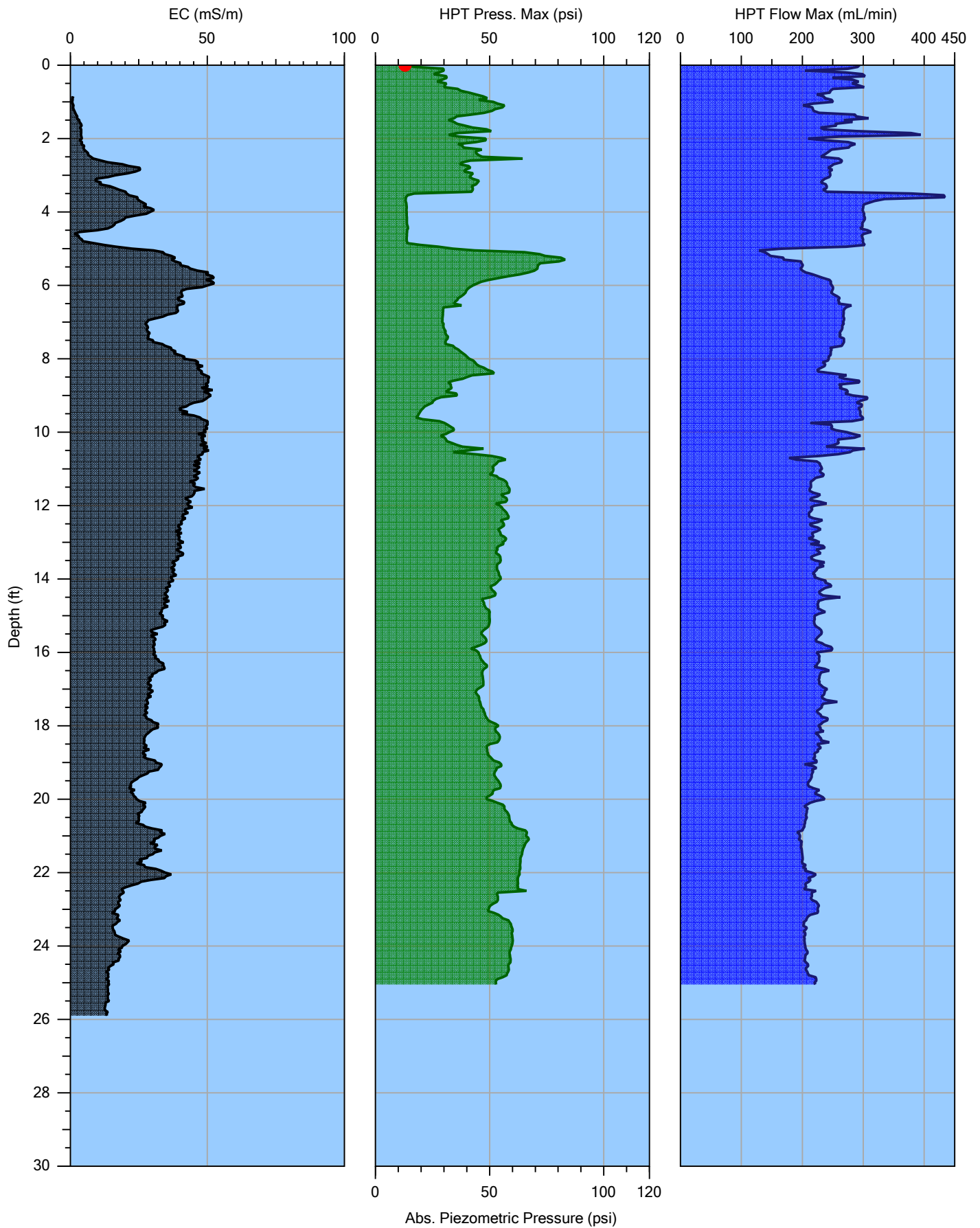
EXPECTED FLOW=0 HPT DIFF.: 0.22 psi (1.5 kPa) +/- 10%

ACTUAL FLOW=0 HPT DIFF.: 0.21 psi (1.4 kPa)

TRANSDUCER TEST PASSED

Post-Log EC Load Tests

Test	Target (mS/m)	Actual (mS/m)	% Diff	P/F
Test 1	195.0	187.9	3.6	PASS
Test 2	97.0	95.0	2.1	PASS
Test 3	24.0	23.5	1.9	PASS



Company: Dakota Technologies
Project ID: 0185.17

Operator: Michael C.
Client: GHD

File:	HPT-13.HPT
Date:	8/2/2017
Location:	

HPT-13.zip

SITE INFORMATION -- DIRECT IMAGE HPT PROBE

Geoprobe DI Acquisition Software for Windows
Version: 1.7 Build: 16064

Pre-Log EC Load Tests

Test	Target (mS/m)	Actual (mS/m)	% Diff	P/F
Test 1	195.0	189.2	3.0	PASS
Test 2	97.0	92.6	4.5	PASS
Test 3	24.0	24.3	1.3	PASS

COMPANY: Dakota Technologies
OPERATOR: Michael C.
PROJECT ID: 0185.17
CLIENT: GHD
UNITS: ENGLISH
PROBE AND ARRAY: K6050 HPT Probe with Wenner
LOCATION: Toledo, OH
100 INCH STRING POT USED
ROD LENGTH: 4 feet

PRE-LOG HPT REFERENCE TEST VALUES

PRE TEST TIME: Wed Aug 2 2017 12:22:40

TEST	HPT PRESSURE (psi)	FLOW (mL/min)	HPT PRESSURE (kPa)
TOP with FLOW=0	13.444	0.0	92.690
TOP with FLOW>0	13.729	286.4	94.660
BOTTOM with FLOW=0	13.239	0.0	91.280
BOTTOM with FLOW>0	13.498	286.2	93.070

EXPECTED FLOW=0 HPT DIFF.: 0.22 psi (1.5 kPa) +/- 10%
ACTUAL FLOW=0 HPT DIFF.: 0.20 psi (1.4 kPa)

TRANSDUCER TEST PASSED

HPT IDEAL COEFFS: 2.2696e1,-2.2356
HPT SENSOR CAL NUMBERS: XD2251A,0.0000,0.0000,8.0000e-7,-4.0000e-5,1.0219,-3.6898
LOG START TIME: Wed Aug 2 2017 12:24:16

LOG END DEPTH: 25.05 ft (7.635 m)
LOG END TIME: Wed Aug 2 2017 12:52:40

LATITUDE: 0.000000000
LONGITUDE: 0.000000000
ELEVATION: 0.000 METERS 0.00 FEET
GPS Quality: None

POST-LOG HPT REFERENCE TEST VALUES

POST TEST TIME: Wed Aug 2 2017 13:01:46

TEST	HPT PRESSURE (psi)	FLOW (mL/min)	HPT PRESSURE (kPa)
TOP with FLOW=0	13.416	0.0	92.500
TOP with FLOW>0	13.702	279.0	94.470
BOTTOM with FLOW=0	13.208	0.0	91.070
BOTTOM with FLOW>0	13.498	286.4	93.070

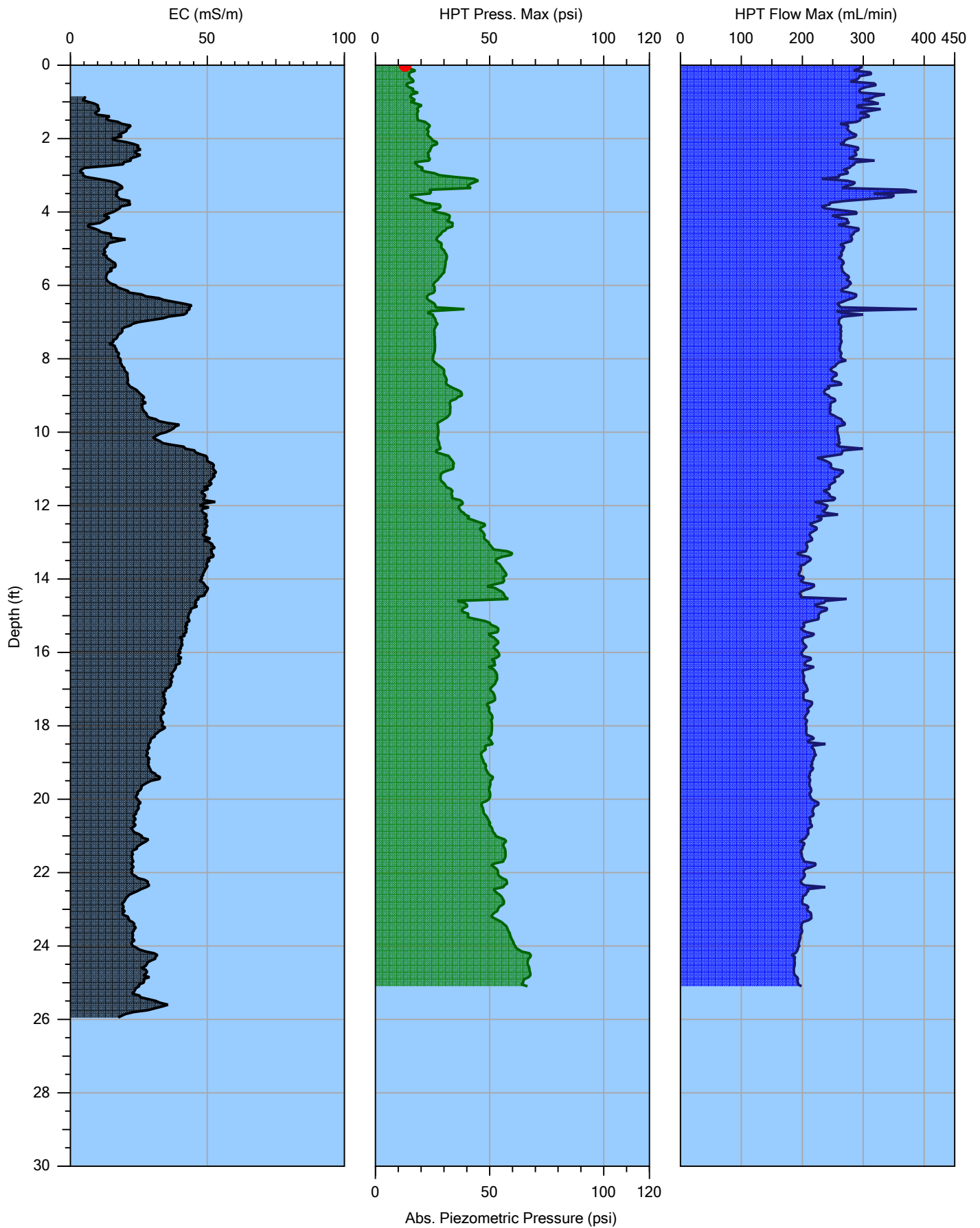
EXPECTED FLOW=0 HPT DIFF.: 0.22 psi (1.5 kPa) +/- 10%

ACTUAL FLOW=0 HPT DIFF.: 0.21 psi (1.4 kPa)

TRANSDUCER TEST PASSED

Post-Log EC Load Tests

Test	Target (mS/m)	Actual (mS/m)	% Diff	P/F
Test 1	195.0	189.3	2.9	PASS
Test 2	97.0	94.2	2.9	PASS
Test 3	24.0	24.0	0.2	PASS



Company: Dakota Technologies
Project ID: 0185.17

Operator: Michael C.
Client: GHD

File:	HPT-14.HPT
Date:	8/2/2017
Location:	

HPT-14.zip

SITE INFORMATION -- DIRECT IMAGE HPT PROBE

Geoprobe DI Acquisition Software for Windows
Version: 1.7 Build: 16064

Pre-Log EC Load Tests (Post-Log From HPT-13.zip)

Test	Target (mS/m)	Actual (mS/m)	% Diff	P/F
Test 1	195.0	189.3	2.9	PASS
Test 2	97.0	94.2	2.9	PASS
Test 3	24.0	24.0	0.2	PASS

COMPANY: Dakota Technologies
OPERATOR: Michael C.
PROJECT ID: 0185.17
CLIENT: GHD
UNITS: ENGLISH
PROBE AND ARRAY: K6050 HPT Probe with Wenner
LOCATION: Toledo, OH
100 INCH STRING POT USED
ROD LENGTH: 4 feet

PRE-LOG HPT REFERENCE TEST VALUES (Post-Log From HPT-13.zip)

PRE TEST TIME: Wed Aug 2 2017 13:01:46

TEST	HPT PRESSURE (psi)	FLOW (mL/min)	HPT PRESSURE (kPa)
TOP with FLOW=0	13.416	0.0	92.500
TOP with FLOW>0	13.702	279.0	94.470
BOTTOM with FLOW=0	13.208	0.0	91.070
BOTTOM with FLOW>0	13.498	286.4	93.070

EXPECTED FLOW=0 HPT DIFF.: 0.22 psi (1.5 kPa) +/- 10%
ACTUAL FLOW=0 HPT DIFF.: 0.21 psi (1.4 kPa)

TRANSDUCER TEST PASSED

HPT IDEAL COEFFS: 2.2696e1,-2.2356
HPT SENSOR CAL NUMBERS: XD2251A,0.0000,0.0000,8.0000e-7,-4.0000e-5,1.0219,-3.6898
LOG START TIME: Wed Aug 2 2017 13:04:27

LOG END DEPTH: 25.10 ft (7.650 m)
LOG END TIME: Wed Aug 2 2017 14:11:21

LATITUDE: 0.000000000
LONGITUDE: 0.000000000
ELEVATION: 0.000 METERS 0.00 FEET
GPS Quality: None

POST-LOG HPT REFERENCE TEST VALUES

POST TEST TIME: Wed Aug 2 2017 14:19:36

TEST	HPT PRESSURE (psi)	FLOW (mL/min)	HPT PRESSURE (kPa)
TOP with FLOW=0	13.393	0.0	92.340
TOP with FLOW>0	13.640	280.1	94.050
BOTTOM with FLOW=0	13.185	0.0	90.910
BOTTOM with FLOW>0	13.425	281.2	92.560

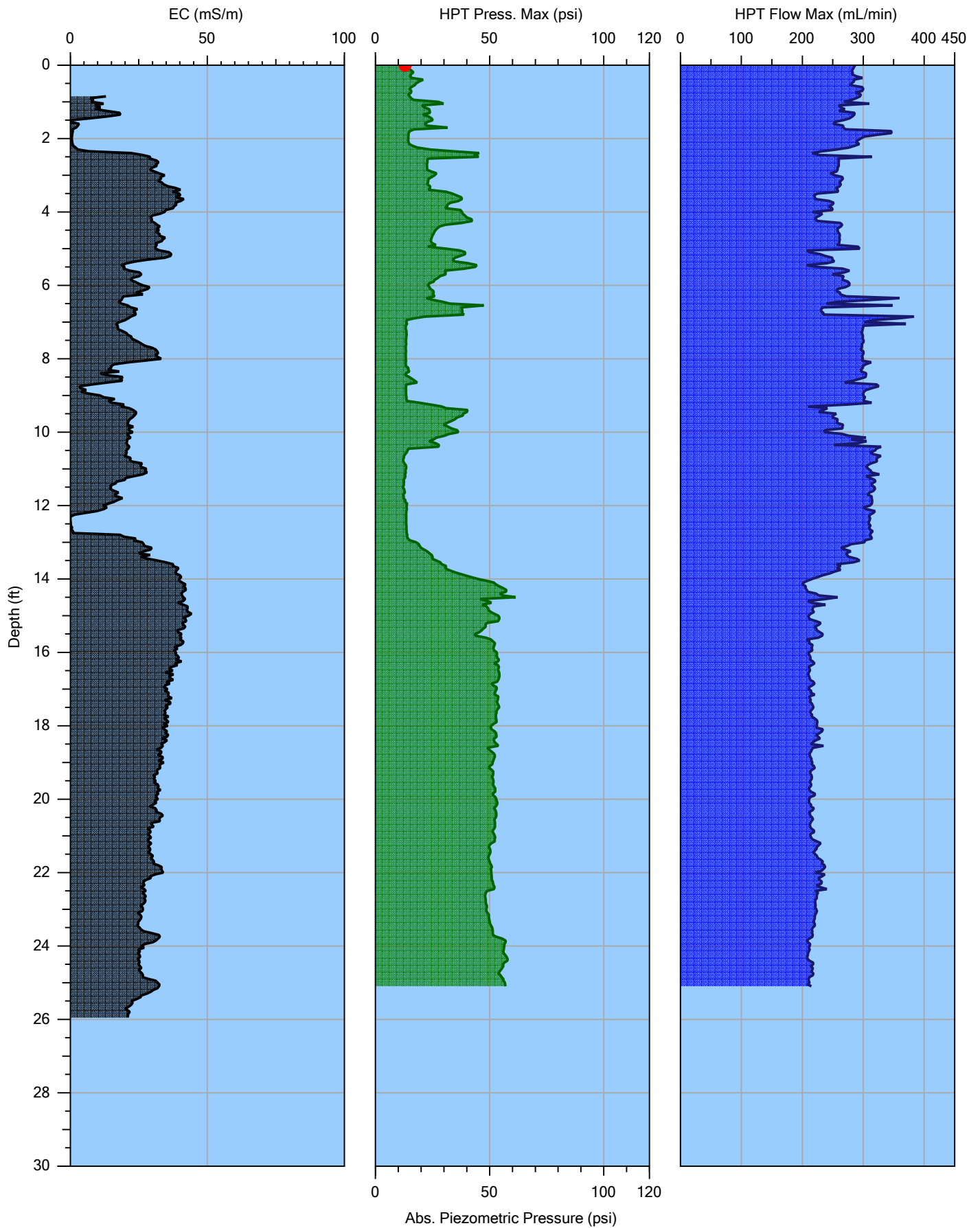
EXPECTED FLOW=0 HPT DIFF.: 0.22 psi (1.5 kPa) +/- 10%

ACTUAL FLOW=0 HPT DIFF.: 0.21 psi (1.4 kPa)

TRANSDUCER TEST PASSED

Post-Log EC Load Tests

Test	Target (mS/m)	Actual (mS/m)	% Diff	P/F
Test 1	195.0	187.1	4.0	PASS
Test 2	97.0	94.2	2.9	PASS
Test 3	24.0	24.0	0.1	PASS



Company: Dakota Technologies

Project ID: 0185.17

Operator: Michael C.

Client: GHD

File:	HPT-15.HPT
Date:	8/3/2017
Location:	

HPT-15.zip

SITE INFORMATION -- DIRECT IMAGE HPT PROBE

Geoprobe DI Acquisition Software for Windows
Version: 1.7 Build: 16064

Pre-Log EC Load Tests

Test	Target (mS/m)	Actual (mS/m)	% Diff	P/F
Test 1	195.0	188.7	3.2	PASS
Test 2	97.0	95.0	2.0	PASS
Test 3	24.0	24.0	0.1	PASS

COMPANY: Dakota Technologies
OPERATOR: Michael C.
PROJECT ID: 0185.17
CLIENT: GHD
UNITS: ENGLISH
PROBE AND ARRAY: K6050 HPT Probe with Wenner
LOCATION: Toledo, OH
100 INCH STRING POT USED
ROD LENGTH: 4 feet

PRE-LOG HPT REFERENCE TEST VALUES

PRE TEST TIME: Thu Aug 3 2017 07:38:28

TEST	HPT PRESSURE (psi)	FLOW (mL/min)	HPT PRESSURE (kPa)
TOP with FLOW=0	13.436	0.0	92.640
TOP with FLOW>0	13.653	230.6	94.130
BOTTOM with FLOW=0	13.229	0.0	91.210
BOTTOM with FLOW>0	13.435	228.9	92.630

EXPECTED FLOW=0 HPT DIFF.: 0.22 psi (1.5 kPa) +/- 10%
ACTUAL FLOW=0 HPT DIFF.: 0.21 psi (1.4 kPa)

TRANSDUCER TEST PASSED

HPT IDEAL COEFFS: 2.2696e1,-2.2356
HPT SENSOR CAL NUMBERS: XD2251A,0.0000,0.0000,8.0000e-7,-4.0000e-5,1.0219,-3.6898
LOG START TIME: Thu Aug 3 2017 07:42:40

LOG END DEPTH: 25.10 ft (7.650 m)
LOG END TIME: Thu Aug 3 2017 08:21:11

LATITUDE: 0.000000000
LONGITUDE: 0.000000000
ELEVATION: 0.000 METERS 0.00 FEET
GPS Quality: None

POST-LOG HPT REFERENCE TEST VALUES

POST TEST TIME: Thu Aug 3 2017 08:30:35

TEST	HPT PRESSURE (psi)	FLOW (mL/min)	HPT PRESSURE (kPa)
TOP with FLOW=0	13.423	0.0	92.550
TOP with FLOW>0	13.710	282.9	94.520
BOTTOM with FLOW=0	13.212	0.0	91.090
BOTTOM with FLOW>0	13.493	284.5	93.030

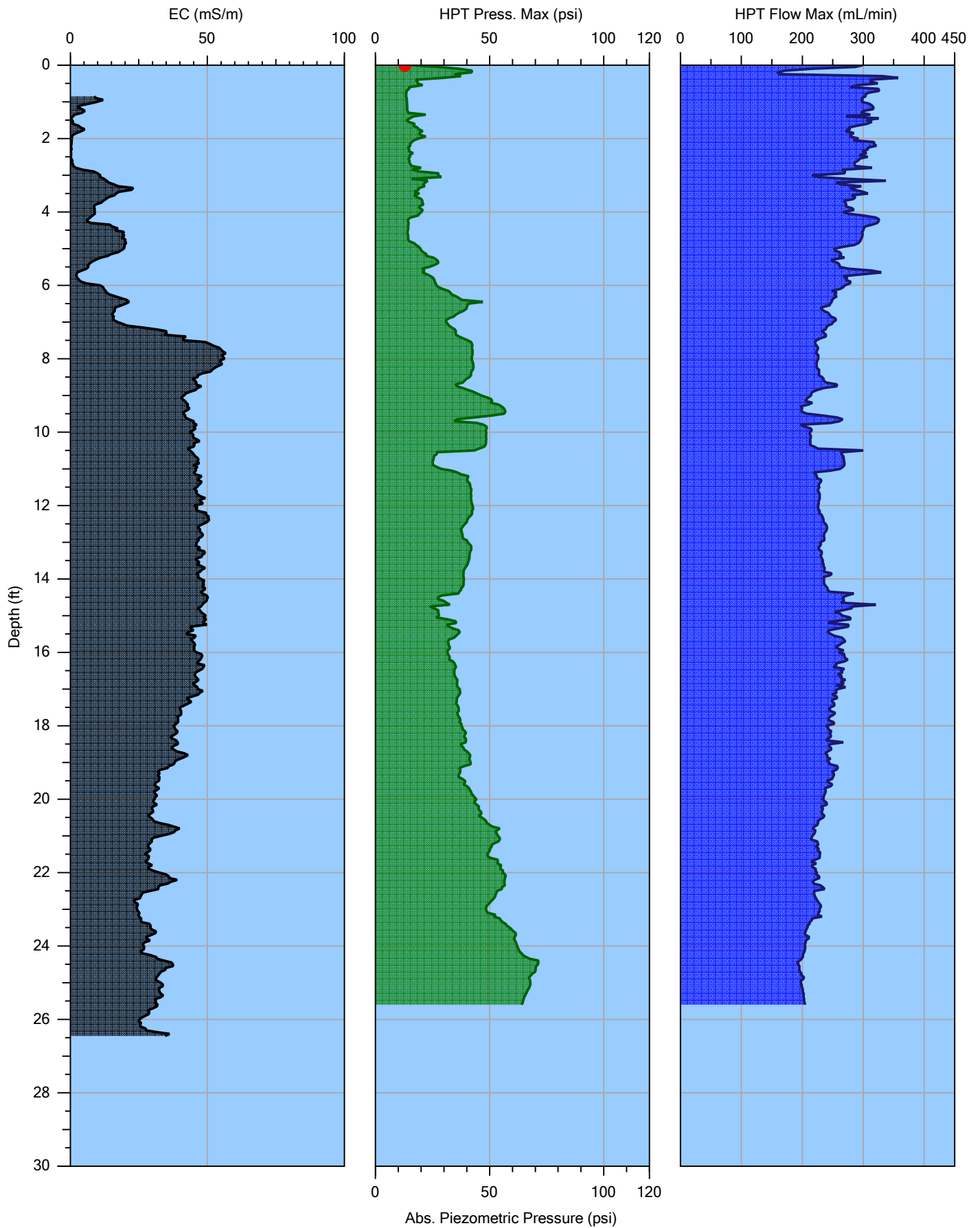
EXPECTED FLOW=0 HPT DIFF.: 0.22 psi (1.5 kPa) +/- 10%

ACTUAL FLOW=0 HPT DIFF.: 0.21 psi (1.5 kPa)

TRANSDUCER TEST PASSED

Post-Log EC Load Tests

Test	Target (mS/m)	Actual (mS/m)	% Diff	P/F
Test 1	195.0	185.1	5.1	PASS
Test 2	97.0	92.7	4.4	PASS
Test 3	24.0	24.0	0.0	PASS



Company: Dakota Technologies
Project ID: 0185.17

Operator: Michael C.
Client: GHD

File:	HPT-16.HPT
Date:	8/3/2017
Location:	

HPT-16.zip

SITE INFORMATION -- DIRECT IMAGE HPT PROBE

Geoprobe DI Acquisition Software for Windows
Version: 1.7 Build: 16064

Pre-Log EC Load Tests (Post-Log From HPT-15.zip)

Test	Target (mS/m)	Actual (mS/m)	% Diff	P/F
Test 1	195.0	185.1	5.1	PASS
Test 2	97.0	92.7	4.4	PASS
Test 3	24.0	24.0	0.0	PASS

COMPANY: Dakota Technologies
OPERATOR: Michael C.
PROJECT ID: 0185.17
CLIENT: GHD
UNITS: ENGLISH
PROBE AND ARRAY: K6050 HPT Probe with Wenner
LOCATION: Toledo, OH
100 INCH STRING POT USED
ROD LENGTH: 4 feet

PRE-LOG HPT REFERENCE TEST VALUES (Post-Log From HPT-15.zip)

PRE TEST TIME: Thu Aug 3 2017 08:30:35

TEST	HPT PRESSURE (psi)	FLOW (mL/min)	HPT PRESSURE (kPa)
TOP with FLOW=0	13.423	0.0	92.550
TOP with FLOW>0	13.710	282.9	94.520
BOTTOM with FLOW=0	13.212	0.0	91.090
BOTTOM with FLOW>0	13.493	284.5	93.030

EXPECTED FLOW=0 HPT DIFF.: 0.22 psi (1.5 kPa) +/- 10%
ACTUAL FLOW=0 HPT DIFF.: 0.21 psi (1.5 kPa)

TRANSDUCER TEST PASSED

HPT IDEAL COEFFS: 2.2696e1,-2.2356
HPT SENSOR CAL NUMBERS: XD2251A,0.0000,0.0000,8.0000e-7,-4.0000e-5,1.0219,-3.6898
LOG START TIME: Thu Aug 3 2017 08:32:13

LOG END DEPTH: 25.60 ft (7.803 m)
LOG END TIME: Thu Aug 3 2017 09:39:21

LATITUDE: 0.000000000
LONGITUDE: 0.000000000
ELEVATION: 0.000 METERS 0.00 FEET
GPS Quality: None

POST-LOG HPT REFERENCE TEST VALUES

POST TEST TIME: Thu Aug 3 2017 09:48:34

TEST	HPT PRESSURE (psi)	FLOW (mL/min)	HPT PRESSURE (kPa)
TOP with FLOW=0	13.415	0.0	92.490
TOP with FLOW>0	13.662	266.2	94.190
BOTTOM with FLOW=0	13.210	0.0	91.080
BOTTOM with FLOW>0	13.427	268.6	92.580

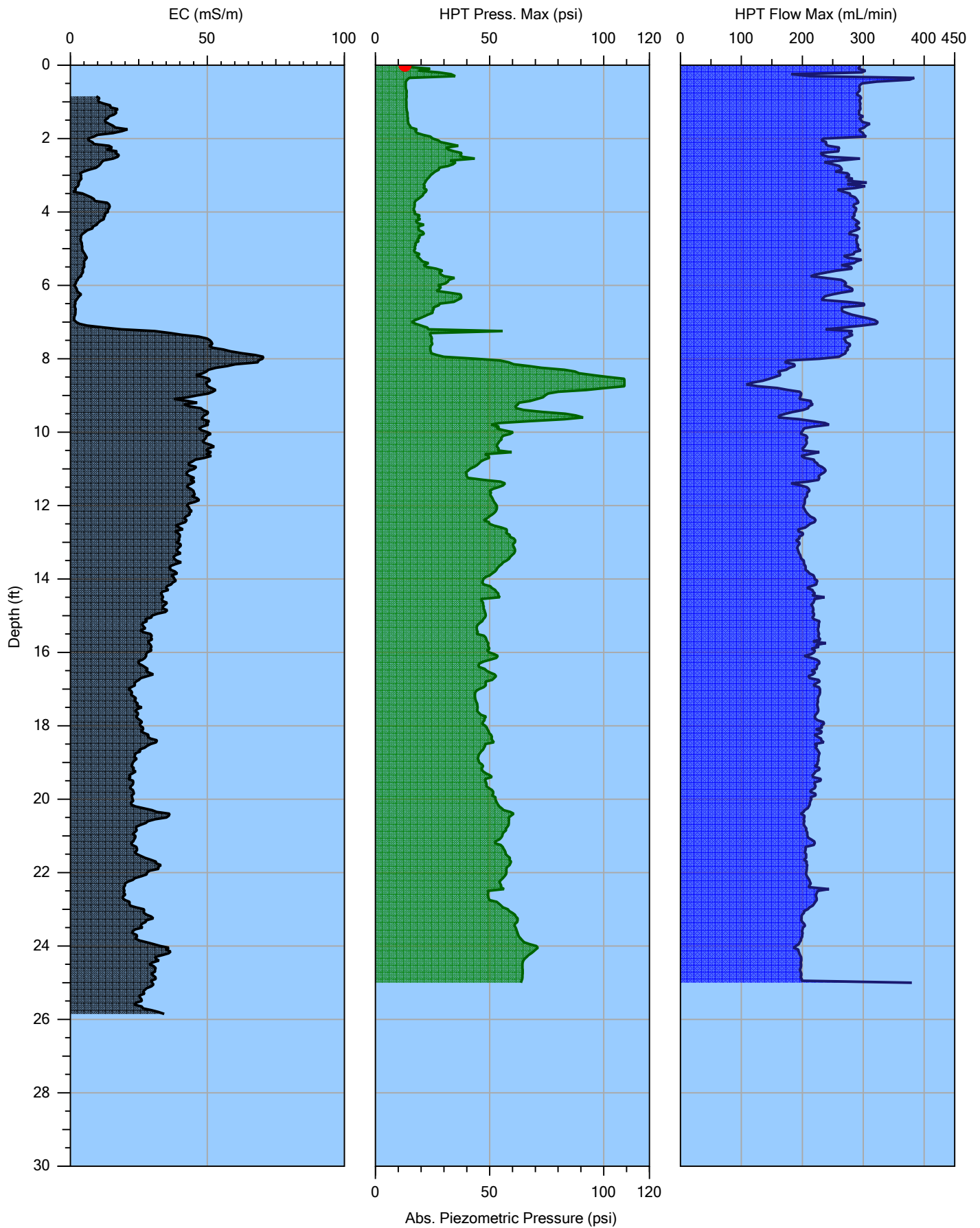
EXPECTED FLOW=0 HPT DIFF.: 0.22 psi (1.5 kPa) +/- 10%

ACTUAL FLOW=0 HPT DIFF.: 0.20 psi (1.4 kPa)

TRANSDUCER TEST PASSED

Post-Log EC Load Tests

Test	Target (mS/m)	Actual (mS/m)	% Diff	P/F
Test 1	195.0	184.3	5.5	PASS
Test 2	97.0	96.2	0.8	PASS
Test 3	24.0	23.5	2.2	PASS



Company: Dakota Technologies

Project ID: 0185.17

Operator: Michael C.

Client: GHD

File:	HPT-17.HPT
Date:	8/3/2017
Location:	

HPT-17.zip

SITE INFORMATION -- DIRECT IMAGE HPT PROBE

Geoprobe DI Acquisition Software for Windows
Version: 1.7 Build: 16064

Pre-Log EC Load Tests

Test	Target (mS/m)	Actual (mS/m)	% Diff	P/F
Test 1	195.0	192.7	1.2	PASS
Test 2	97.0	95.4	1.6	PASS
Test 3	24.0	23.5	2.0	PASS

COMPANY: Dakota Technologies
OPERATOR: Michael C.
PROJECT ID: 0185.17
CLIENT: GHD
UNITS: ENGLISH
PROBE AND ARRAY: K6050 HPT Probe with Wenner
LOCATION: Toledo, OH
100 INCH STRING POT USED
ROD LENGTH: 4 feet

PRE-LOG HPT REFERENCE TEST VALUES

PRE TEST TIME: Thu Aug 3 2017 11:36:55

TEST	HPT PRESSURE (psi)	FLOW (mL/min)	HPT PRESSURE (kPa)
TOP with FLOW=0	13.400	0.0	92.390
TOP with FLOW>0	13.657	278.5	94.160
BOTTOM with FLOW=0	13.195	0.0	90.980
BOTTOM with FLOW>0	13.450	278.9	92.740

EXPECTED FLOW=0 HPT DIFF.: 0.22 psi (1.5 kPa) +/- 10%
ACTUAL FLOW=0 HPT DIFF.: 0.21 psi (1.4 kPa)

TRANSDUCER TEST PASSED

HPT IDEAL COEFFS: 2.2696e1,-2.2356
HPT SENSOR CAL NUMBERS: XD2251A,0.0000,0.0000,8.0000e-7,-4.0000e-5,1.0219,-3.6898
LOG START TIME: Thu Aug 3 2017 11:38:28

LOG END DEPTH: 25.00 ft (7.620 m)
LOG END TIME: Thu Aug 3 2017 12:12:43

LATITUDE: 0.000000000
LONGITUDE: 0.000000000
ELEVATION: 0.000 METERS 0.00 FEET
GPS Quality: None

POST-LOG HPT REFERENCE TEST VALUES

POST TEST TIME: Thu Aug 3 2017 12:13:11

TEST	HPT PRESSURE (psi)	FLOW (mL/min)	HPT PRESSURE (kPa)
TOP with FLOW=0	13.371	0.0	92.190
TOP with FLOW>0	13.636	284.7	94.010
BOTTOM with FLOW=0	13.170	0.0	90.810
BOTTOM with FLOW>0	13.430	284.8	92.590

EXPECTED FLOW=0 HPT DIFF.: 0.22 psi (1.5 kPa) +/- 10%

ACTUAL FLOW=0 HPT DIFF.: 0.20 psi (1.4 kPa)

TRANSDUCER TEST PASSED

Post-Log EC Load Tests

Test	Target (mS/m)	Actual (mS/m)	% Diff	P/F
Test 1	195.0	185.6	4.8	PASS
Test 2	97.0	95.5	1.6	PASS
Test 3	24.0	24.1	0.5	PASS

Appendix C

HPT Reference Log

Dakota Technologies

HPT Reference Log

Conductivity Plot:

The Electrical Conductivity (EC) of the soil is logged simultaneously with the HPT data utilizing an integrated Wenner array. EC often provides insight into the stratigraphy and correlates with the HPT pressure plot in many instances. Typically an increase in EC (and increase in pressure) is indicative of finer, tighter soil types.

HPT Pressure Plot:

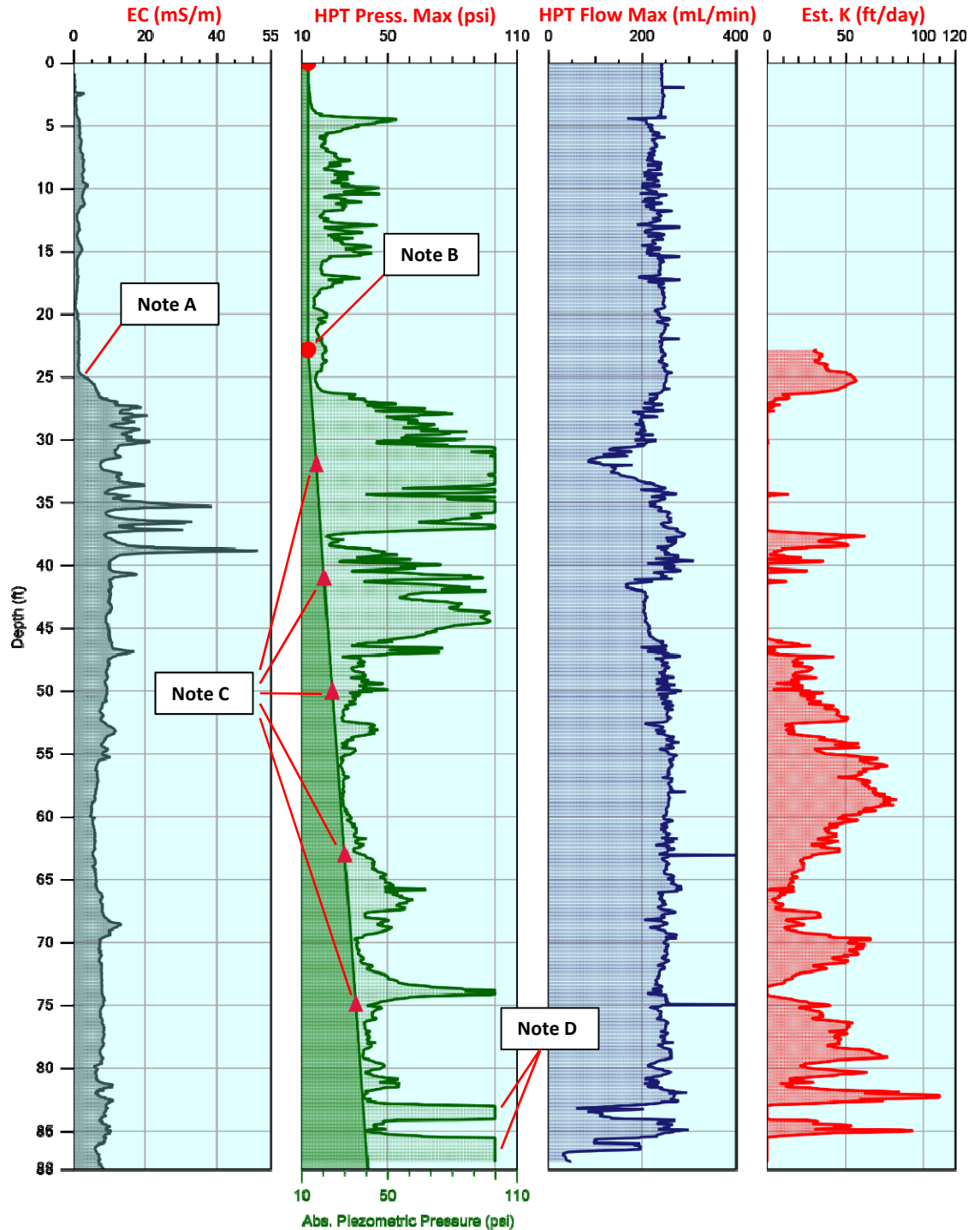
The HPT pressure gives insight into hydraulic properties of the soil as water is pumped into the formation at a constant rate. The pressure (unlike EC) is independent of certain factors such as pore water chemistry or mineralogy (contaminants, brines) and so further aids in defining soil/hydraulic properties of the area of investigation.

HPT Flow Plot:

Water is pumped out of the HPT probe and into the formation at a constant rate of typically 250 ml/min. A change in flow (usually accompanied by an inverse pressure change) is an indicator of the hydraulic properties of the soil

Estimated K Plot:

The estimated hydraulic conductivity (K) is internally calculated by utilizing pressure and flow data in conjunction with dissipation tests performed at each location. This data is useful for directing sampling, remediation and slug testing protocols.



Note A:

Increasing EC readings starting at 25 feet indicate a transition to finer grain silt with clay stringers at 35 to 39 feet.

Note B:

The hydrostatic water level has been indicated with a round marker at 22.5 feet.

Note C:

The Absolute Piezometric pressure has been calculated and graphed with the individual dissipation test points indicated by triangular markers. The pressure increases relative to the head pressure as soon as the water table is encountered. Since these points form a straight line (no inflections) it can be inferred that the water table is hydraulically connected from the first to the last dissipation test.

Note D:

The significant pressure increase (transducer maxed out, 100 psi) and drop in flow at 83 to 88 feet is due to tight formation conditions discovered by HPT parameters (and not observed by EC measurements).

Appendix B

Soil Stratigraphic Logs



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: GMPT-TOLEDO
PROJECT NUMBER: 12609-05
CLIENT: RACER
LOCATION: TOLEDO, OHIO

HOLE DESIGNATION: SB-1/HPT-1
DATE COMPLETED: July 31, 2017
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: S. KIPPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
2	GP-SANDY GRAVEL (FILL), compact, fine to coarse grained, angular, poorly graded, brown, moist - white/gray at 1.0ft BGS	2.20		1GP		50		15.2
4	SP-GRAVELLY SAND (FILL), trace silt, compact, fine to coarse grained, poorly graded, brown/gray, moist	4.00 4.30 4.70		4.5' -001				3.8
6	GP-GRAVEL (FILL/AGGREGATE), compact, coarse grained, poorly graded, white, moist							16.3
8	SC-CLAYEY SAND, trace silt, compact, fine grained, poorly graded, dark brown/gray, moist	7.40 8.00		7.1' -002 2GP		75		12.2
10	CL-SILTY CLAY, trace sand, firm, low plasticity, mottled brown/dark gray, moist							4.4
12	SC-CLAYEY SAND, trace silt, trace fine gravel, compact, fine grained, poorly graded, brown/dark gray, wet	10.80 11.70		3GP		70		4.1
14	CL-SILTY CLAY, trace sand, stiff, low plasticity, dark grayish black, moist - gray at 9.0ft BGS - soft at 10.0ft BGS							7.7
16	SP-GRAVELLY SAND, with clay, trace silt, compact, fine to medium grained, poorly graded, brown, wet			4GP		80		8.6
18	CL-SILTY CLAY, trace sand, soft, low plasticity, dark gray, moist - orangish brown at 14.0ft BGS - stiff, dark gray at 15.0ft BGS - firm, light brown to light gray at 16.2ft BGS							
20	END OF BOREHOLE @ 20.0ft BGS	20.00						
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼
CHEMICAL ANALYSIS ○

OVERBURDEN LOG 012609-WI.GPJ CRA_CORP.GDT 11/3/17



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: GMPT-TOLEDO
PROJECT NUMBER: 12609-05
CLIENT: RACER
LOCATION: TOLEDO, OHIO

HOLE DESIGNATION: SB-10/HPT-10
DATE COMPLETED: August 1, 2017
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: S. KIPPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	TOPSOIL							
2	SM-SILTY SAND, trace fine gravel, trace organics, compact, fine grained, poorly graded, brown, moist	1.00		1GP		70		5.3
4								5.8
6	CL-SILTY CLAY, trace sand, stiff, low plasticity, mottled brown/gray, moist	5.30		5.0' -020				5.7
8				2GP		100		5.5
10								5.5
12	SM-SILTY SAND, trace fine gravel, trace organics, compact, fine grained, poorly graded, brown, moist	10.60 10.90		3GP 12.5' -021		95		5.3
14	CL-SILTY CLAY, firm, low plasticity, gray, moist							2.5
16								3.0
18	- sand seam, trace silt, compact, fine grained, poorly graded, gray, wet from 17.8 to 18.0ft BGS			4GP		95		
20	- trace sand, trace fine gravel at 19.2ft BGS END OF BOREHOLE @ 20.0ft BGS	20.00						
22								
24								
26								
28								
30								
32								
34								

BACKFILLED WITH BENTONITE CHIPS

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ○

OVERBURDEN LOG 012609-WI.GPJ CRA_CORP.GDT 11/3/17



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: GMPT-TOLEDO
PROJECT NUMBER: 12609-05
CLIENT: RACER
LOCATION: TOLEDO, OHIO

HOLE DESIGNATION: SB-11/HPT-11
DATE COMPLETED: August 2, 2017
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: S. KIPPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
2	GP-GRAVEL (FILL/AGGREGATE)	0.80		1GP		65		7.3
	SC-CLAYEY SAND, with silt, compact, fine grained, poorly graded, MISSING INFO	2.80						
4	CL-SILTY CLAY, with sand, stiff, low plasticity, gray, moist	4.50		5.0' -022				7.0
	SM-SILTY SAND, trace clay, compact, fine grained, poorly graded, MISSING INFO	5.80						
6	CL-SILTY CLAY, with sand, stiff, low plasticity, dark gray, moist	8.20		2GP		70		4.3
	SM-SILTY SAND, trace clay, compact, fine grained, poorly graded, orangish brown, moist	10.80						
10	- trace fine gravel at 10.3ft BGS			3GP 12.5' -023		85		5.7
	CL-SILTY CLAY, trace sand, firm, low plasticity, mottled brown/gray, moist							
12	- with sand, very soft, wet at 11.7ft BGS							6.8
	- firm at 12.2ft BGS							
14	- stiff at 14.4ft BGS	15.00		4GP		75		6.6
	SM-SILTY SAND, loose, fine grained, poorly graded, grayish brown, wet	17.80						
16	CL-SILTY CLAY, soft, low plasticity, gray, moist							6.8
18	END OF BOREHOLE @ 20.0ft BGS	20.00						8.2
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND 
CHEMICAL ANALYSIS 

OVERBURDEN LOG 012609-WI.GPJ CRA_CORP.GDT 11/3/17



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: GMPT-TOLEDO
PROJECT NUMBER: 12609-05
CLIENT: RACER
LOCATION: TOLEDO, OHIO

HOLE DESIGNATION: SB-12/HPT-12
DATE COMPLETED: August 2, 2017
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: S. KIPPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	TOPSOIL							
2	SM-SILTY SAND, trace clay, trace fine gravel, trace organics, compact, fine grained, poorly graded, brown, moist	1.00						8.9
4	SP-SAND, trace fine gravel, compact, fine grained, poorly graded, light brown, moist	2.70		1GP		85		8.0
6	- wet at 5.7ft BGS				5.5' -024/ 025			5.7
8				2GP		65		
10	CL-SILTY CLAY, few fine gravel, firm, low plasticity, brownish gray, moist	8.40						6.3
12	SP-SAND, trace fine gravel, trace clay, compact, fine grained, poorly graded, brown, wet	10.20						8.0
14	CL-SILTY CLAY, with fine gravel, firm, low plasticity, brown, wet	12.50		3GP		45		7.6
16	SP-GRAVELLY SAND, compact, fine grained, poorly graded, brown, wet	15.00						
18	CL-SILTY CLAY, with sand, few fine gravel, soft, low plasticity, gray, wet	15.80						8.2
20	CL-SILTY CLAY, trace fine gravel, soft, low plasticity, gray, moist	17.80			4GP 18.0' -026	95		9.0
22	NO RECOVERY (20.0 to 25.0ft BGS)	20.00						
24				5GP		0		
26	END OF BOREHOLE @ 25.0ft BGS	25.00						

BACKFILLED
WITH
BENTONITE
CHIPS

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼
CHEMICAL ANALYSIS ○

OVERBURDEN LOG 012609-WI.GPJ CRA_CORP.GDT 11/3/17



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: GMPT-TOLEDO
PROJECT NUMBER: 12609-05
CLIENT: RACER
LOCATION: TOLEDO, OHIO

HOLE DESIGNATION: SB-13/HPT-13
DATE COMPLETED: August 2, 2017
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: S. KIPPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	TOPSOIL	0.70						
2	SM-SILTY SAND, compact, fine grained, poorly graded, dark brown, moist	2.60		1GP		90		2.9
4	CL-SILTY CLAY, trace sand, trace fine gravel, stiff, low plasticity, mottled brown/gray, moist	3.10						4.0
6	ML-SANDY SILT, trace fine gravel, compact, fine grained, poorly graded, dark gray, moist - sand gravel seam, fines, moist from 4.4 to 4.5ft BGS	5.20						3.6
8	SC-CLAYEY SAND, trace silt, compact, fine grained, poorly graded, brown/gray, moist - sand seam at 7.6ft BGS	8.00		2GP		80		4.3
10	SC-CLAYEY SAND, trace silt, loose, fine grained, poorly graded, light brown, wet	9.00						3.9
12	CL-SILTY CLAY, trace sand, stiff, low plasticity, mottled brown/gray, moist	10.00						4.0
14	SC-CLAYEY SAND, trace silt, loose, fine grained, poorly graded, brown, wet	11.50		3GP		95		3.9
16	CL-SILTY CLAY, firm, low plasticity, mottled brown/gray, moist	14.00						4.3
18	CL-SILTY CLAY, soft, low plasticity, gray, moist							4.3
20	- clayey sand seam, wet at 15.8ft BGS			4GP		60		2.9
22								
24				5GP		85		
26	END OF BOREHOLE @ 25.0ft BGS	25.00						
28								
30								
32								
34								

BACKFILLED WITH BENTONITE CHIPS

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼
CHEMICAL ANALYSIS ○

OVERBURDEN LOG 012609-WI.GPJ CRA_CORP.GDT 11/3/17



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: GMPT-TOLEDO
PROJECT NUMBER: 12609-05
CLIENT: RACER
LOCATION: TOLEDO, OHIO

HOLE DESIGNATION: SB-14/HPT-14
DATE COMPLETED: August 2, 2017
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: S. KIPPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	TOPSOIL	0.50						
2	SP-GRAVELLY SAND, trace clay, trace silt, compact, fine grained, poorly graded, brown, moist	2.60		1GP		85		3.0
4	SM-SILTY SAND, trace clay, compact, fine grained, poorly graded, dark brown, moist	4.50						3.4
6	GP-GRAVEL, trace sand, compact, coarse grained, angular, poorly graded, gray, moist	4.70						
8	SC-CLAYEY SAND, trace silt, compact, fine grained, poorly graded, brown, moist - dark brown at 7.4ft BGS - brownish gray at 8.0ft BGS - wet at 9.0ft BGS - light brown at 10.0ft BGS	12.20		2GP 8.0' -029		85		3.2
10								4.0
12	CL-SILTY CLAY, stiff, low plasticity, mottled brown/gray, moist			3GP		100		3.3
14	- with sand, very soft, wet at 15.0ft BGS			14.5' -030				3.3
16	- soft, gray at 16.8ft BGS - firm at 17.5ft BGS			4GP		100		3.4
18								2.9
20				5GP		50		3.1
22								
24								
26	END OF BOREHOLE @ 25.0ft BGS	25.00						
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ○

OVERBURDEN LOG 012609-WI.GPJ CRA_CORP.GDT 11/3/17



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: GMPT-TOLEDO
PROJECT NUMBER: 12609-05
CLIENT: RACER
LOCATION: TOLEDO, OHIO

HOLE DESIGNATION: SB-15/HPT-15
DATE COMPLETED: August 3, 2017
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: S. KIPPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	TOPSOIL	0.80						
2	SC-CLAYEY SAND, trace silt, with fine to coarse gravel, compact, fine grained, poorly graded, light brown, moist	2.80		1GP		70		2.2
4	SP-GRAVELLY SAND, compact, fine grained, poorly graded, light brown, moist	3.50		3.5' -032				4.3
6	CL-SILTY CLAY, trace sand, trace fine gravel, stiff, low plasticity, dark brownish gray, moist							4.8
8				2GP		30		5.5
10								5.2
12	CL-SANDY CLAY, trace silt, trace fine gravel, stiff, low plasticity, brown, moist	10.50						
14				3GP		75		7.3
16	CL-SILTY CLAY, with gravel, trace sand, soft, low plasticity, black, moist, odor - wet at 14.3ft BGS	14.00 14.50		14.2' -033				8.0
18	CL-SILTY CLAY, stiff, low plasticity, mottled brown/gra, moist	15.50						
20	CL-SILTY CLAY, trace sand, lean, very soft, low plasticity, dark gray, wet, odor	17.80		4GP 18.0 -033		95		4.5
22	CL-SILTY CLAY, firm, low plasticity, gray, moist - soft at 19.5ft BGS							5.0
24				5GP		90		4.4
26	END OF BOREHOLE @ 25.0ft BGS	25.00						

BACKFILLED WITH BENTONITE CHIPS

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ○

OVERBURDEN LOG 012609-WI.GPJ CRA_CORP.GDT 11/3/17



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: GMPT-TOLEDO
PROJECT NUMBER: 12609-05
CLIENT: RACER
LOCATION: TOLEDO, OHIO

HOLE DESIGNATION: SB-16/HPT-16
DATE COMPLETED: August 3, 2017
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: S. KIPPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	TOPSOIL	0.40						
2	SC-CLAYEY SAND (FILL), trace silt, with fine gravel, compact, fine grained, poorly graded, light brown, moist			1GP		60		1.7
4	SP-GRAVELLY SAND, compact, fine grained, poorly graded, light brown, moist	3.00						2.4
6	SC-CLAYEY SAND, trace silt, trace gravel, compact, fine grained, poorly graded, brown, moist	4.50						5.1
8	SM-SILTY SAND, trace clay, compact, fine grained, poorly graded, light grayish brown, moist	7.00		2GP 7.5' -034		50		5.1
10	CL-SILTY CLAY, trace sand, firm, low plasticity, mottled brown/gray, moist - silty sand seam, moist at 9.5ft BGS	8.50						5.1
12	CL-SILTY CLAY, firm, low plasticity, gray, moist	10.40						6.3
14			BACKFILLED WITH BENTONITE CHIPS	3GP 12.5' -035		40		3.7
16								5.1
18				4GP		45		5.8
20								5.9
22								6.0
24				5GP		50		
26	END OF BOREHOLE @ 25.0ft BGS	25.00						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 012609-WI.GPJ CRA_CORP.GDT 11/3/17



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: GMPT-TOLEDO
PROJECT NUMBER: 12609-05
CLIENT: RACER
LOCATION: TOLEDO, OHIO

HOLE DESIGNATION: SB-17/HPT-17
DATE COMPLETED: August 3, 2017
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: S. KIPPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	TOPSOIL	0.50						2.3
2	SC-CLAYEY SAND, trace silt, compact, fine grained, poorly graded, brown, moist - with fine gravel from 1.7 to 1.9ft BGS - wood debris - organics at 2.5ft BGS	2.50		1GP		75		3.4
4	SM-SILTY SAND, trace fine gravel, compact, fine grained, poorly graded, light brown, moist - light orangish brown at 5.0ft BGS							4.1
6								5.0
8	CL-SILTY CLAY, trace fine gravel, stiff, low plasticity, mottled brown/gray, moist	7.60		2GP		100		5.5
10								4.3
12	CL-SILTY CLAY, firm, low plasticity, gray, moist	10.20		10.0' -036				4.4
14								5.3
16	- with sand, wet at 15.0ft BGS			3GP		90		5.2
18								2.2
20	- firm, moist at 17.0ft BGS			15.0' -037				
22								
24	- very soft, wet at 22.2ft BGS			4GP		90		
26	- with sand, firm at 23.8ft BGS							
28				5GP		85		
30								
32								
34								
	END OF BOREHOLE @ 25.0ft BGS	25.00						

BACKFILLED WITH BENTONITE CHIPS

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ○

OVERBURDEN LOG 012609-WI.GPJ CRA_CORP.GDT 11/3/17



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: GMPT-TOLEDO
PROJECT NUMBER: 12609-05
CLIENT: RACER
LOCATION: TOLEDO, OHIO

HOLE DESIGNATION: SB-18/HPT-18
DATE COMPLETED: August 3, 2017
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: S. KIPPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	TOPSOIL	0.30						
2	SC-CLAYEY SAND, trace silt, trace organics, compact, fine grained, poorly graded, light brown, moist	2.00		1GP				0.4
4	SP-SAND, trace organics, compact, fine grained, poorly graded, light brown, moist	3.60						1.5
6	SC-CLAYEY SAND, trace silt, compact, fine grained, poorly graded, light brownish gray, moist	6.80		7.0' -038 2GP				3.6
8	CL-SILTY CLAY, trace sand, stiff, low plasticity, mottled brown/gray, moist							4.6
10								
12	- with sand from 11.4 to 11.7ft BGS							4.1
14	CL-SILTY CLAY, firm, low plasticity, gray, moist	12.60		3GP 12.6' -039				3.8
16	- soft at 15.0ft BGS							3.6
18				4GP				3.9
20								
22								4.3
24	- firm at 23.0ft BGS			5GP				5.2
26	END OF BOREHOLE @ 25.0ft BGS	25.00						
28								
30								
32								
34								

BACKFILLED WITH BENTONITE CHIPS

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 012609-WI.GPJ CRA_CORP.GDT 11/3/17



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: GMPT-TOLEDO
PROJECT NUMBER: 12609-05
CLIENT: RACER
LOCATION: TOLEDO, OHIO

HOLE DESIGNATION: SB-19
DATE COMPLETED: August 3, 2017
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: S. KIPPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	TOPSOIL	0.60						
2	SM-SILTY SAND, trace clay, trace organics, compact, fine grained, poorly graded, dark brown, moist	2.20		1GP		90		4.1
4	SP-SAND, trace silt, compact, fine grained, poorly graded, light brown, moist	3.60						4.1
	CL-SILTY CLAY, with sand, stiff, low plasticity, mottled brown/gray, moist	5.20						
6	CL-SILTY CLAY, firm, low plasticity, mottled brown/gray, moist							4.2
8				2GP 7.5'-040		100		3.6
10								2.4
12		12.30		3GP		95		3.8
14	CL-SILTY CLAY, firm, low plasticity, gray, moist			15.0'-041				3.3
16				4GP		100		2.9
18								1.8
20	- trace sand at 20.0ft BGS							
22	- soft at 22.3ft BGS			5GP		80		1.6
24								
26	END OF BOREHOLE @ 25.0ft BGS	25.00						
28								
30								
32								
34								

BACKFILLED WITH BENTONITE CHIPS

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 012609-WI.GPJ CRA_CORP.GDT 11/3/17



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: GMPT-TOLEDO
PROJECT NUMBER: 12609-05
CLIENT: RACER
LOCATION: TOLEDO, OHIO

HOLE DESIGNATION: SB-2/HPT-2
DATE COMPLETED: July 31, 2017
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: S. KIPPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
2	GP-GRAVEL (FILL/AGGREGATE), compact, coarse grained, angular, poorly graded, light gray to white, moist	1.50		1GP		55		6.9
4	SP-SAND (FILL), compact, fine grained, poorly graded, light orangish brown, moist	3.80						12.7
	CL-SILTY CLAY (FILL), trace sand, stiff, low plasticity, dark gray, moist	5.00						
	- gray at 4.6ft BGS							
6	SP-GRAVELLY SAND (FILL), compact, fine to coarse grained, angular gravel, poorly graded, light gray, moist	7.30						6.1
8	SP-SAND, trace silt, compact, fine grained, poorly graded, reddish brown, moist	7.70		2GP		50		10.2
	CL-SILTY CLAY, stiff, low plasticity, brown, moist	8.00						
10	ML-SANDY SILT, trace clay, compact, fine grained, poorly graded, brown/gray, wet	9.30						11.4
	CL-SILTY CLAY, stiff, low plasticity, brown, moist	10.60						
12	GP-SANDY GRAVEL, compact, fine to coarse grained, angular, poorly graded, light gray to white, moist	13.00		3GP		50		9.9
14	CL-SILTY CLAY, trace sand, firm, low plasticity, brown, moist	15.60						9.7
16	- trace sand, light orangish brown at 14.0ft BGS	16.00						
18	- soft, light gray at 14.6ft BGS			4GP		80		10.0
20	SP-GRAVELLY SAND, loose, fine to medium grained, poorly graded, light brown/gray, moist	20.00						
22	CL-SILTY CLAY, trace sand, soft, low plasticity, gray, moist							
24	END OF BOREHOLE @ 20.0ft BGS							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ○

OVERBURDEN LOG 012609-WI.GPJ CRA_CORP.GDT 11/3/17



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: GMPT-TOLEDO
PROJECT NUMBER: 12609-05
CLIENT: RACER
LOCATION: TOLEDO, OHIO

HOLE DESIGNATION: SB-3/HPT-3
DATE COMPLETED: July 31, 2017
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: S. KIPPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	TOPSOIL	0.40						
2	SP-SAND (FILL), trace silt, with fine gravel, compact, fine grained, poorly graded, light brown, moist	1.70						3.9
	GP-SANDY GRAVEL, compact, fine to coarse grained, poorly graded, light gray/white, moist	2.50		1GP		75		
4	CL-SILTY CLAY, with sand, firm, low plasticity, light brown, moist	4.00						6.3
	CL-SILTY CLAY, stiff, low plasticity, brown, moist	5.30		5.0' -005				9.2
6	SM-SILTY SAND, compact, fine grained, poorly graded, brown, wet	6.90		2GP 7.5' -006		85		8.8
	CL-SILTY CLAY, trace fine gravel, firm, low plasticity, light brown, moist							
10	- light gray at 9.4ft BGS							
	- trace sand, soft, light brown, wet at 10.0ft BGS							
12	- firm, light gray, moist at 11.5ft BGS	12.00						8.0
	CL-SILTY CLAY, trace fine gravel, firm, low plasticity, gray, moist			3GP		100		8.2
14								
16	- soft at 15.0ft BGS							8.3
18				4GP		80		9.1
20	END OF BOREHOLE @ 20.0ft BGS	20.00						
22								
24								
26								
28								
30								
32								
34								

BACKFILLED WITH BENTONITE CHIPS

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼
CHEMICAL ANALYSIS ○

OVERBURDEN LOG 012609-WI.GPJ CRA_CORP.GDT 11/3/17



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: GMPT-TOLEDO
PROJECT NUMBER: 12609-05
CLIENT: RACER
LOCATION: TOLEDO, OHIO

HOLE DESIGNATION: SB-4/HPT-4
DATE COMPLETED: July 31, 2017
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: S. KIPPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	TOPSOIL	0.40						
2	GP-SANDY GRAVEL (FILL), compact, fine to coarse grained, angular, poorly graded, light gray/white, moist	2.20		1GP 2.5' -007		75		6.9
4	SC-CLAYEY SAND, trace silt, compact, fine grained, poorly graded, brown, moist							6.8
6	SM-SILTY SAND, trace clay, compact, fine grained, poorly graded, brown, moist	5.00						
	ML-SANDY SILT, trace clay, compact, fine grained, poorly graded, brown, moist	5.80						5.7
8	CL-SILTY CLAY, soft, low plasticity, gray, moist	7.50		2GP		100		7.4
10	- brown from 10.0 to 10.5ft BGS			10.0' -008				6.5
12				3GP		100		4.8
14								6.4
16				4GP		80		5.5
18								
20	END OF BOREHOLE @ 20.0ft BGS	20.00						
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 012609-WI.GPJ CRA_CORP.GDT 11/3/17



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: GMPT-TOLEDO
PROJECT NUMBER: 12609-05
CLIENT: RACER
LOCATION: TOLEDO, OHIO

HOLE DESIGNATION: SB-5/HPT-5
DATE COMPLETED: August 1, 2017
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: S. KIPPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
2	TOPSOIL	0.50						
4	SM-SILTY SAND, trace clay, compact, fine grained, poorly graded, brown, moist			1GP		80		1.1
6	CL-SANDY CLAY, trace silt, firm, low plasticity, brown, moist	4.40		4.5' -009				1.6
8	ML-SANDY SILT, trace clay, compact, fine grained, poorly graded, light orangish brown, moist	5.20						3.5
10	CL-SILTY CLAY, firm, low plasticity, light gray, moist	7.50		2GP		100		4.1
12	ML-SANDY SILT, compact, fine grained, poorly graded, light orangish brown, moist	10.30						6.0
14	CL-SILTY CLAY, soft, low plasticity, light gray, moist	11.20		3GP		100		6.5
16	- wet from 15.4 to 19.0ft BGS			15.0' -010/ 011				5.6
18				4GP		80		6.9
20	END OF BOREHOLE @ 20.0ft BGS	20.00						

BACKFILLED WITH BENTONITE CHIPS

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼
CHEMICAL ANALYSIS ○

OVERBURDEN LOG 012609-WI.GPJ CRA_CORP.GDT 11/3/17



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: GMPT-TOLEDO
PROJECT NUMBER: 12609-05
CLIENT: RACER
LOCATION: TOLEDO, OHIO

HOLE DESIGNATION: SB-6/HPT-6
DATE COMPLETED: August 1, 2017
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: S. KIPPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
2	TOPSOIL	0.50						
	SP-SAND (FILL), trace clay, trace fine gravel, compact, fine grained, poorly graded, brown, moist			1GP		70		7.7
4	GP-GRAVEL (FILL/AGGREGATE), with sand, compact, fine to coarse grained, angular, poorly graded, white, moist	4.00 4.90						6.9
6	SM-SILTY SAND, with clay, compact, fine grained, poorly graded, grayish brown, moist							8.3
8	CL-SILTY CLAY, trace sand, stiff, low plasticity, reddish brown/gray, moist	7.50		2GP 7.5'- -012		90		8.4
10	SP-GRAVELLY SAND, trace clay, compact, fine grained, poorly graded, brown, moist	10.20 10.50						8.3
12	CL-SILTY CLAY, trace sand, stiff, low plasticity, brown, moist			3GP		100		6.8
14								
16								6.9
18	SC-CLAYEY SAND, with fine gravel, compact, fine grained, poorly graded, brown, moist	17.00 17.90		4GP		50		8.4
20	CL-SILTY CLAY, firm, low plasticity, gray, moist							
	END OF BOREHOLE @ 20.0ft BGS	20.00		20.0' -013				
22								
24								
26								
28								
30								
32								
34								

BACKFILLED WITH BENTONITE CHIPS

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 012609-WI.GPJ CRA_CORP.GDT 11/3/17



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: GMPT-TOLEDO
PROJECT NUMBER: 12609-05
CLIENT: RACER
LOCATION: TOLEDO, OHIO

HOLE DESIGNATION: SB-7/HPT-7
DATE COMPLETED: August 1, 2017
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: S. KIPPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	TOPSOIL							
2	SP-GRAVELLY SAND (FILL), trace organics, trace debris, compact, fine grained, poorly graded, brown, moist	1.00		1GP		45		5.3
4	CL-SILTY CLAY, trace sand, stiff, low plasticity, mottled brown/gray, moist	3.50 4.30						8.3
6	SM-SILTY SAND, trace clay, compact, fine grained, poorly graded, brown, moist							
8	CL-SILTY CLAY, trace sand, stiff, low plasticity, mottled brown/gray, moist	6.10		2GP		90		7.7
10	- firm at 10.0ft BGS			10.0' -014				10.1
12	SM-SILTY SAND, compact, fine grained, poorly graded, brown, moist	11.00 11.20		3GP		80		5.8
14	CL-SILTY CLAY, stiff, low plasticity, mottled, brown/gray, moist							7.8
16	CL-SILTY CLAY, soft, low plasticity, gray, moist	14.00		15.0' -015				7.4
18	- wet from 17.3 to 17.7ft BGS			4GP		100		
20	- firm at 18.3ft BGS							6.3
20	- stiff at 19.5ft BGS	20.00						
20	END OF BOREHOLE @ 20.0ft BGS							
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ○

OVERBURDEN LOG 012609-WI.GPJ CRA_CORP.GDT 11/3/17



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: GMPT-TOLEDO
PROJECT NUMBER: 12609-05
CLIENT: RACER
LOCATION: TOLEDO, OHIO

HOLE DESIGNATION: SB-8/HPT-8
DATE COMPLETED: August 1, 2017
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: S. KIPPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	TOPSOIL							
2	SM-SILTY SAND, trace organics, compact, fine grained, poorly graded, brown, moist	1.00		1GP 2.5' -016		85		7.0
4	CL-SILTY CLAY, with sand, trace organics, stiff, low plasticity, mottled, brown/gray, moist	3.80						4.9
6	- silty sand seam, trace gravel from 5.0 to 5.2ft BGS	6.40						4.8
8	- silty sand seam, trace fine gravel, wet from 5.9 to 6.1ft BGS			2GP		100		6.3
10	CL-SILTY CLAY, firm, low plasticity, mottled brown/gray, moist							3.7
12	CL-SILTY CLAY, soft, low plasticity, gray, moist	11.80		3GP		100		5.2
14								5.3
16	- wet from 15.4 to 16.5ft BGS			4GP		90		5.7
18								
20	END OF BOREHOLE @ 20.0ft BGS	20.00						
22								
24								
26								
28								
30								
32								
34								

BACKFILLED WITH BENTONITE CHIPS

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ○

OVERBURDEN LOG 012609-WI.GPJ CRA_CORP.GDT 11/3/17



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: GMPT-TOLEDO
PROJECT NUMBER: 12609-05
CLIENT: RACER
LOCATION: TOLEDO, OHIO

HOLE DESIGNATION: SB-9/HPT-9
DATE COMPLETED: August 1, 2017
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: S. KIPPEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	TOPSOIL	0.70						
2	SM-SILTY SAND, trace clay, compact, fine grained, poorly graded, mottled brown/gray, moist			1GP 2.5' -018		90		9.3
4	ML-SILT, compact, fine grained, poorly graded, light gray, moist - trace sand at 4.3ft BGS	3.90 4.70						8.4
6	CL-SILTY CLAY, with sand, stiff, low plasticity, mottled brown/gray, moist			2GP		100		6.0
8								5.2
10								4.0
12	CL-SILTY CLAY, firm, low plasticity, gray, moist	12.00		3GP		80		5.1
14								5.2
16	- at 15.2ft BGS			15.0' -019				5.2
18	- firm, moist at 17.2ft BGS			4GP		85		6.1
20	END OF BOREHOLE @ 20.0ft BGS	20.00						
22								
24								
26								
28								
30								
32								
34								

BACKFILLED WITH BENTONITE CHIPS

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ○

OVERBURDEN LOG 012609-WI.GPJ CRA_CORP.GDT 11/3/17

Appendix C

Laboratory Analytical Results

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-83124-1

Client Project/Site: 12609-T01-2017, Racer Toledo

For:

GHD Services Inc.

9033 Meridian Way

West Chester, Ohio 45069

Attn: Ms. Angela Bown



Authorized for release by:

8/15/2017 8:19:36 AM

Denise Heckler, Project Manager II

(330)966-9477

denise.heckler@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



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.

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Method Summary	5
Sample Summary	6
Detection Summary	7
Client Sample Results	9
Surrogate Summary	95
QC Sample Results	97
QC Association Summary	107
Lab Chronicle	111
Certification Summary	120
Chain of Custody	121



Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits
F1	MS and/or MSD Recovery is outside acceptance limits.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Job ID: 240-83124-1

Laboratory: TestAmerica Canton

Narrative

Job Narrative 240-83124-1

Comments

No additional comments.

Receipt

The samples were received on 8/2/2017 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.6° C.

GC/MS VOA

Method(s) 8260B: The following samples were received in pre-weighed containers with a label that was added in the field, which would cause a slight low bias in the final results. S-12609-073117-SK-001 (240-83124-1), S-12609-073117-SK-002 (240-83124-2), S-12609-073117-SK-003 (240-83124-3), S-12609-073117-SK-004 (240-83124-4), S-12609-073117-SK-005 (240-83124-5), S-12609-073117-SK-006 (240-83124-6), S-12609-073117-SK-007 (240-83124-7), S-12609-073117-SK-008 (240-83124-8), S-12609-080117-SK-009 (240-83124-9), S-12609-080117-SK-010 (240-83124-10), S-12609-080117-SK-011 (240-83124-11), S-12609-080117-SK-012 (240-83124-12), S-12609-080117-SK-013 (240-83124-13), S-12609-080117-SK-014 (240-83124-14), S-12609-080117-SK-015 (240-83124-15), S-12609-080117-SK-016 (240-83124-16), S-12609-080117-SK-017 (240-83124-17), S-12609-080117-SK-018 (240-83124-18), S-12609-080117-SK-019 (240-83124-19), S-12609-080117-SK-020 (240-83124-20), S-12609-080117-SK-020 (240-83124-20[DU]), S-12609-080117-SK-020 (240-83124-20[MS]), S-12609-080117-SK-020 (240-83124-20[MSD]), S-12609-080117-SK-021 (240-83124-21) and TB-12609-080117-SK (240-83124-23).

Method(s) 8260B: Surrogate recovery for the following samples were outside of acceptance limits: S-12609-073117-SK-002 (240-83124-2), S-12609-073117-SK-003 (240-83124-3), S-12609-073117-SK-007 (240-83124-7) and S-12609-080117-SK-012 (240-83124-12). There was insufficient sample to perform a re-extraction; therefore, the data have been reported.

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 240-289815 and analytical batch 240-289905.

Method(s) 8260B: A MS/MSD was prepared for batch 240-289858, but was analyzed in a different analytical batch.

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

GC Semi VOA

Method(s) 8082A: The following sample required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: S-12609-073117-SK-001 (240-83124-1). 3154647, 2596994, 3141113.

Method(s) 8082A: The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: S-12609-073117-SK-002 (240-83124-2), S-12609-073117-SK-003 (240-83124-3) and S-12609-073117-SK-008 (240-83124-8). 3154649, 2596995, 3141112.

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.

VOA Prep

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

Method Summary

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
8082A	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

Sample Summary

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-83124-1	S-12609-073117-SK-001	Solid	07/31/17 12:00	08/02/17 09:30
240-83124-2	S-12609-073117-SK-002	Solid	07/31/17 12:20	08/02/17 09:30
240-83124-3	S-12609-073117-SK-003	Solid	07/31/17 14:30	08/02/17 09:30
240-83124-4	S-12609-073117-SK-004	Solid	07/31/17 14:35	08/02/17 09:30
240-83124-5	S-12609-073117-SK-005	Solid	07/31/17 15:55	08/02/17 09:30
240-83124-6	S-12609-073117-SK-006	Solid	07/31/17 16:05	08/02/17 09:30
240-83124-7	S-12609-073117-SK-007	Solid	07/31/17 17:05	08/02/17 09:30
240-83124-8	S-12609-073117-SK-008	Solid	07/31/17 17:10	08/02/17 09:30
240-83124-9	S-12609-080117-SK-009	Solid	08/01/17 09:45	08/02/17 09:30
240-83124-10	S-12609-080117-SK-010	Solid	08/01/17 09:50	08/02/17 09:30
240-83124-11	S-12609-080117-SK-011	Solid	08/01/17 09:55	08/02/17 09:30
240-83124-12	S-12609-080117-SK-012	Solid	08/01/17 10:55	08/02/17 09:30
240-83124-13	S-12609-080117-SK-013	Solid	08/01/17 11:00	08/02/17 09:30
240-83124-14	S-12609-080117-SK-014	Solid	08/01/17 12:00	08/02/17 09:30
240-83124-15	S-12609-080117-SK-015	Solid	08/01/17 12:05	08/02/17 09:30
240-83124-16	S-12609-080117-SK-016	Solid	08/01/17 15:15	08/02/17 09:30
240-83124-17	S-12609-080117-SK-017	Solid	08/01/17 15:20	08/02/17 09:30
240-83124-18	S-12609-080117-SK-018	Solid	08/01/17 16:20	08/02/17 09:30
240-83124-19	S-12609-080117-SK-019	Solid	08/01/17 16:25	08/02/17 09:30
240-83124-20	S-12609-080117-SK-020	Solid	08/01/17 17:15	08/02/17 09:30
240-83124-21	S-12609-080117-SK-021	Solid	08/01/17 17:20	08/02/17 09:30
240-83124-23	TB-12609-080117-SK	Solid	08/01/17 00:00	08/02/17 09:30

Detection Summary

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-073117-SK-001

Lab Sample ID: 240-83124-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Methyl acetate	120	J	1700	100	ug/Kg	1		✱	8260B	Total/NA

Client Sample ID: S-12609-073117-SK-002

Lab Sample ID: 240-83124-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Methyl acetate	150	J	1600	98	ug/Kg	1		✱	8260B	Total/NA

Client Sample ID: S-12609-073117-SK-003

Lab Sample ID: 240-83124-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Methyl acetate	120	J	1400	82	ug/Kg	1		✱	8260B	Total/NA

Client Sample ID: S-12609-073117-SK-004

Lab Sample ID: 240-83124-4

No Detections.

Client Sample ID: S-12609-073117-SK-005

Lab Sample ID: 240-83124-5

No Detections.

Client Sample ID: S-12609-073117-SK-006

Lab Sample ID: 240-83124-6

No Detections.

Client Sample ID: S-12609-073117-SK-007

Lab Sample ID: 240-83124-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Methyl acetate	120	J	1800	110	ug/Kg	1		✱	8260B	Total/NA

Client Sample ID: S-12609-073117-SK-008

Lab Sample ID: 240-83124-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Methyl acetate	120	J	1700	100	ug/Kg	1		✱	8260B	Total/NA

Client Sample ID: S-12609-080117-SK-009

Lab Sample ID: 240-83124-9

No Detections.

Client Sample ID: S-12609-080117-SK-010

Lab Sample ID: 240-83124-10

No Detections.

Client Sample ID: S-12609-080117-SK-011

Lab Sample ID: 240-83124-11

No Detections.

Client Sample ID: S-12609-080117-SK-012

Lab Sample ID: 240-83124-12

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-013

Lab Sample ID: 240-83124-13

No Detections.

Client Sample ID: S-12609-080117-SK-014

Lab Sample ID: 240-83124-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	250	J	360	51	ug/Kg	1		✱	8260B	Total/NA

Client Sample ID: S-12609-080117-SK-015

Lab Sample ID: 240-83124-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Vinyl chloride	170	J	360	25	ug/Kg	1		✱	8260B	Total/NA
cis-1,2-Dichloroethene	890		360	51	ug/Kg	1		✱	8260B	Total/NA

Client Sample ID: S-12609-080117-SK-016

Lab Sample ID: 240-83124-16

No Detections.

Client Sample ID: S-12609-080117-SK-017

Lab Sample ID: 240-83124-17

No Detections.

Client Sample ID: S-12609-080117-SK-018

Lab Sample ID: 240-83124-18

No Detections.

Client Sample ID: S-12609-080117-SK-019

Lab Sample ID: 240-83124-19

No Detections.

Client Sample ID: S-12609-080117-SK-020

Lab Sample ID: 240-83124-20

No Detections.

Client Sample ID: S-12609-080117-SK-021

Lab Sample ID: 240-83124-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Methyl acetate	110	J	1900	110	ug/Kg	1		✱	8260B	Total/NA

Client Sample ID: TB-12609-080117-SK

Lab Sample ID: 240-83124-23

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-073117-SK-001

Lab Sample ID: 240-83124-1

Date Collected: 07/31/17 12:00

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1400	U	1400	130	ug/Kg	☼	08/03/17 10:29	08/04/17 04:33	1
Benzene	340	U	340	33	ug/Kg	☼	08/03/17 10:29	08/04/17 04:33	1
Dichlorobromomethane	340	U	340	25	ug/Kg	☼	08/03/17 10:29	08/04/17 04:33	1
Bromoform	340	U	340	32	ug/Kg	☼	08/03/17 10:29	08/04/17 04:33	1
Bromomethane	340	U	340	39	ug/Kg	☼	08/03/17 10:29	08/04/17 04:33	1
2-Butanone (MEK)	1400	U	1400	69	ug/Kg	☼	08/03/17 10:29	08/04/17 04:33	1
Carbon disulfide	340	U	340	25	ug/Kg	☼	08/03/17 10:29	08/04/17 04:33	1
Carbon tetrachloride	340	U	340	37	ug/Kg	☼	08/03/17 10:29	08/04/17 04:33	1
Chlorobenzene	340	U	340	41	ug/Kg	☼	08/03/17 10:29	08/04/17 04:33	1
Chloroethane	340	U	340	39	ug/Kg	☼	08/03/17 10:29	08/04/17 04:33	1
Chloroform	340	U	340	33	ug/Kg	☼	08/03/17 10:29	08/04/17 04:33	1
Chloromethane	340	U	340	25	ug/Kg	☼	08/03/17 10:29	08/04/17 04:33	1
1,1-Dichloroethane	340	U	340	43	ug/Kg	☼	08/03/17 10:29	08/04/17 04:33	1
1,2-Dichloroethane	340	U	340	41	ug/Kg	☼	08/03/17 10:29	08/04/17 04:33	1
1,1-Dichloroethene	340	U	340	50	ug/Kg	☼	08/03/17 10:29	08/04/17 04:33	1
1,2-Dichloropropane	340	U	340	41	ug/Kg	☼	08/03/17 10:29	08/04/17 04:33	1
cis-1,3-Dichloropropene	340	U	340	32	ug/Kg	☼	08/03/17 10:29	08/04/17 04:33	1
trans-1,3-Dichloropropene	340	U	340	21	ug/Kg	☼	08/03/17 10:29	08/04/17 04:33	1
Ethylbenzene	340	U	340	48	ug/Kg	☼	08/03/17 10:29	08/04/17 04:33	1
2-Hexanone	1400	U	1400	120	ug/Kg	☼	08/03/17 10:29	08/04/17 04:33	1
Methylene Chloride	340	U	340	89	ug/Kg	☼	08/03/17 10:29	08/04/17 04:33	1
4-Methyl-2-pentanone (MIBK)	1400	U	1400	55	ug/Kg	☼	08/03/17 10:29	08/04/17 04:33	1
Styrene	340	U	340	14	ug/Kg	☼	08/03/17 10:29	08/04/17 04:33	1
1,1,2,2-Tetrachloroethane	340	U	340	33	ug/Kg	☼	08/03/17 10:29	08/04/17 04:33	1
Tetrachloroethene	340	U	340	29	ug/Kg	☼	08/03/17 10:29	08/04/17 04:33	1
Toluene	340	U	340	33	ug/Kg	☼	08/03/17 10:29	08/04/17 04:33	1
Trichloroethene	340	U	340	51	ug/Kg	☼	08/03/17 10:29	08/04/17 04:33	1
Vinyl chloride	340	U	340	23	ug/Kg	☼	08/03/17 10:29	08/04/17 04:33	1
Xylenes, Total	690	U	690	39	ug/Kg	☼	08/03/17 10:29	08/04/17 04:33	1
1,1,1-Trichloroethane	340	U	340	39	ug/Kg	☼	08/03/17 10:29	08/04/17 04:33	1
1,1,2-Trichloroethane	340	U	340	32	ug/Kg	☼	08/03/17 10:29	08/04/17 04:33	1
Cyclohexane	690	U	690	41	ug/Kg	☼	08/03/17 10:29	08/04/17 04:33	1
1,2-Dibromo-3-Chloropropane	690	U	690	66	ug/Kg	☼	08/03/17 10:29	08/04/17 04:33	1
Ethylene Dibromide	340	U	340	32	ug/Kg	☼	08/03/17 10:29	08/04/17 04:33	1
Dichlorodifluoromethane	340	U	340	30	ug/Kg	☼	08/03/17 10:29	08/04/17 04:33	1
cis-1,2-Dichloroethene	340	U	340	48	ug/Kg	☼	08/03/17 10:29	08/04/17 04:33	1
trans-1,2-Dichloroethene	340	U	340	48	ug/Kg	☼	08/03/17 10:29	08/04/17 04:33	1
Isopropylbenzene	340	U	340	47	ug/Kg	☼	08/03/17 10:29	08/04/17 04:33	1
Methyl acetate	120	J	1700	100	ug/Kg	☼	08/03/17 10:29	08/04/17 04:33	1
Methyl tert-butyl ether	340	U	340	36	ug/Kg	☼	08/03/17 10:29	08/04/17 04:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	340	U	340	32	ug/Kg	☼	08/03/17 10:29	08/04/17 04:33	1
1,2,4-Trichlorobenzene	340	U	340	36	ug/Kg	☼	08/03/17 10:29	08/04/17 04:33	1
1,2-Dichlorobenzene	340	U	340	25	ug/Kg	☼	08/03/17 10:29	08/04/17 04:33	1
1,3-Dichlorobenzene	340	U	340	52	ug/Kg	☼	08/03/17 10:29	08/04/17 04:33	1
1,4-Dichlorobenzene	340	U	340	37	ug/Kg	☼	08/03/17 10:29	08/04/17 04:33	1
Trichlorofluoromethane	340	U	340	47	ug/Kg	☼	08/03/17 10:29	08/04/17 04:33	1
Chlorodibromomethane	340	U	340	47	ug/Kg	☼	08/03/17 10:29	08/04/17 04:33	1
Methylcyclohexane	690	U	690	51	ug/Kg	☼	08/03/17 10:29	08/04/17 04:33	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-073117-SK-001

Date Collected: 07/31/17 12:00

Date Received: 08/02/17 09:30

Lab Sample ID: 240-83124-1

Matrix: Solid

Percent Solids: 81.5

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	113		64 - 144	08/03/17 10:29	08/04/17 04:33	1
4-Bromofluorobenzene (Surr)	119		58 - 142	08/03/17 10:29	08/04/17 04:33	1
Toluene-d8 (Surr)	114		61 - 137	08/03/17 10:29	08/04/17 04:33	1
Dibromofluoromethane (Surr)	105		31 - 155	08/03/17 10:29	08/04/17 04:33	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-073117-SK-001

Lab Sample ID: 240-83124-1

Date Collected: 07/31/17 12:00

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	60	U	60	29	ug/Kg	☼	08/03/17 09:51	08/05/17 12:48	1
Aroclor-1221	60	U	60	28	ug/Kg	☼	08/03/17 09:51	08/05/17 12:48	1
Aroclor-1232	60	U	60	19	ug/Kg	☼	08/03/17 09:51	08/05/17 12:48	1
Aroclor-1242	60	U	60	24	ug/Kg	☼	08/03/17 09:51	08/05/17 12:48	1
Aroclor-1248	60	U	60	20	ug/Kg	☼	08/03/17 09:51	08/05/17 12:48	1
Aroclor-1254	60	U	60	17	ug/Kg	☼	08/03/17 09:51	08/05/17 12:48	1
Aroclor-1260	60	U	60	22	ug/Kg	☼	08/03/17 09:51	08/05/17 12:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	70		14 - 128	08/03/17 09:51	08/05/17 12:48	1
DCB Decachlorobiphenyl	65		10 - 132	08/03/17 09:51	08/05/17 12:48	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-073117-SK-001

Lab Sample ID: 240-83124-1

Date Collected: 07/31/17 12:00

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 81.5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	81.5		0.1	0.1	%			08/03/17 08:27	1
Percent Moisture	18.5		0.1	0.1	%			08/03/17 08:27	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-073117-SK-002

Lab Sample ID: 240-83124-2

Date Collected: 07/31/17 12:20

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 81.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1300	U	1300	130	ug/Kg	☼	08/03/17 10:29	08/04/17 04:55	1
Benzene	330	U	330	31	ug/Kg	☼	08/03/17 10:29	08/04/17 04:55	1
Dichlorobromomethane	330	U	330	24	ug/Kg	☼	08/03/17 10:29	08/04/17 04:55	1
Bromoform	330	U	330	30	ug/Kg	☼	08/03/17 10:29	08/04/17 04:55	1
Bromomethane	330	U	330	37	ug/Kg	☼	08/03/17 10:29	08/04/17 04:55	1
2-Butanone (MEK)	1300	U	1300	66	ug/Kg	☼	08/03/17 10:29	08/04/17 04:55	1
Carbon disulfide	330	U	330	24	ug/Kg	☼	08/03/17 10:29	08/04/17 04:55	1
Carbon tetrachloride	330	U	330	35	ug/Kg	☼	08/03/17 10:29	08/04/17 04:55	1
Chlorobenzene	330	U	330	39	ug/Kg	☼	08/03/17 10:29	08/04/17 04:55	1
Chloroethane	330	U	330	37	ug/Kg	☼	08/03/17 10:29	08/04/17 04:55	1
Chloroform	330	U	330	31	ug/Kg	☼	08/03/17 10:29	08/04/17 04:55	1
Chloromethane	330	U	330	24	ug/Kg	☼	08/03/17 10:29	08/04/17 04:55	1
1,1-Dichloroethane	330	U	330	41	ug/Kg	☼	08/03/17 10:29	08/04/17 04:55	1
1,2-Dichloroethane	330	U	330	39	ug/Kg	☼	08/03/17 10:29	08/04/17 04:55	1
1,1-Dichloroethene	330	U	330	47	ug/Kg	☼	08/03/17 10:29	08/04/17 04:55	1
1,2-Dichloropropane	330	U	330	39	ug/Kg	☼	08/03/17 10:29	08/04/17 04:55	1
cis-1,3-Dichloropropene	330	U	330	30	ug/Kg	☼	08/03/17 10:29	08/04/17 04:55	1
trans-1,3-Dichloropropene	330	U	330	20	ug/Kg	☼	08/03/17 10:29	08/04/17 04:55	1
Ethylbenzene	330	U	330	46	ug/Kg	☼	08/03/17 10:29	08/04/17 04:55	1
2-Hexanone	1300	U	1300	110	ug/Kg	☼	08/03/17 10:29	08/04/17 04:55	1
Methylene Chloride	330	U	330	85	ug/Kg	☼	08/03/17 10:29	08/04/17 04:55	1
4-Methyl-2-pentanone (MIBK)	1300	U	1300	52	ug/Kg	☼	08/03/17 10:29	08/04/17 04:55	1
Styrene	330	U	330	13	ug/Kg	☼	08/03/17 10:29	08/04/17 04:55	1
1,1,2,2-Tetrachloroethane	330	U	330	31	ug/Kg	☼	08/03/17 10:29	08/04/17 04:55	1
Tetrachloroethene	330	U	330	28	ug/Kg	☼	08/03/17 10:29	08/04/17 04:55	1
Toluene	330	U	330	31	ug/Kg	☼	08/03/17 10:29	08/04/17 04:55	1
Trichloroethene	330	U	330	49	ug/Kg	☼	08/03/17 10:29	08/04/17 04:55	1
Vinyl chloride	330	U	330	22	ug/Kg	☼	08/03/17 10:29	08/04/17 04:55	1
Xylenes, Total	660	U	660	37	ug/Kg	☼	08/03/17 10:29	08/04/17 04:55	1
1,1,1-Trichloroethane	330	U	330	37	ug/Kg	☼	08/03/17 10:29	08/04/17 04:55	1
1,1,2-Trichloroethane	330	U	330	30	ug/Kg	☼	08/03/17 10:29	08/04/17 04:55	1
Cyclohexane	660	U	660	39	ug/Kg	☼	08/03/17 10:29	08/04/17 04:55	1
1,2-Dibromo-3-Chloropropane	660	U	660	63	ug/Kg	☼	08/03/17 10:29	08/04/17 04:55	1
Ethylene Dibromide	330	U	330	30	ug/Kg	☼	08/03/17 10:29	08/04/17 04:55	1
Dichlorodifluoromethane	330	U	330	29	ug/Kg	☼	08/03/17 10:29	08/04/17 04:55	1
cis-1,2-Dichloroethene	330	U	330	46	ug/Kg	☼	08/03/17 10:29	08/04/17 04:55	1
trans-1,2-Dichloroethene	330	U	330	46	ug/Kg	☼	08/03/17 10:29	08/04/17 04:55	1
Isopropylbenzene	330	U	330	45	ug/Kg	☼	08/03/17 10:29	08/04/17 04:55	1
Methyl acetate	150	J	1600	98	ug/Kg	☼	08/03/17 10:29	08/04/17 04:55	1
Methyl tert-butyl ether	330	U	330	34	ug/Kg	☼	08/03/17 10:29	08/04/17 04:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	330	U	330	30	ug/Kg	☼	08/03/17 10:29	08/04/17 04:55	1
1,2,4-Trichlorobenzene	330	U	330	34	ug/Kg	☼	08/03/17 10:29	08/04/17 04:55	1
1,2-Dichlorobenzene	330	U	330	24	ug/Kg	☼	08/03/17 10:29	08/04/17 04:55	1
1,3-Dichlorobenzene	330	U	330	50	ug/Kg	☼	08/03/17 10:29	08/04/17 04:55	1
1,4-Dichlorobenzene	330	U	330	35	ug/Kg	☼	08/03/17 10:29	08/04/17 04:55	1
Trichlorofluoromethane	330	U	330	45	ug/Kg	☼	08/03/17 10:29	08/04/17 04:55	1
Chlorodibromomethane	330	U	330	45	ug/Kg	☼	08/03/17 10:29	08/04/17 04:55	1
Methylcyclohexane	660	U	660	49	ug/Kg	☼	08/03/17 10:29	08/04/17 04:55	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-073117-SK-002

Date Collected: 07/31/17 12:20

Date Received: 08/02/17 09:30

Lab Sample ID: 240-83124-2

Matrix: Solid

Percent Solids: 81.1

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	139		64 - 144	08/03/17 10:29	08/04/17 04:55	1
4-Bromofluorobenzene (Surr)	152	X	58 - 142	08/03/17 10:29	08/04/17 04:55	1
Toluene-d8 (Surr)	141	X	61 - 137	08/03/17 10:29	08/04/17 04:55	1
Dibromofluoromethane (Surr)	129		31 - 155	08/03/17 10:29	08/04/17 04:55	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-073117-SK-002

Lab Sample ID: 240-83124-2

Date Collected: 07/31/17 12:20

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 81.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	65	U	65	31	ug/Kg	☼	08/03/17 08:41	08/04/17 16:49	1
Aroclor-1221	65	U	65	30	ug/Kg	☼	08/03/17 08:41	08/04/17 16:49	1
Aroclor-1232	65	U	65	21	ug/Kg	☼	08/03/17 08:41	08/04/17 16:49	1
Aroclor-1242	65	U	65	26	ug/Kg	☼	08/03/17 08:41	08/04/17 16:49	1
Aroclor-1248	65	U	65	22	ug/Kg	☼	08/03/17 08:41	08/04/17 16:49	1
Aroclor-1254	65	U	65	18	ug/Kg	☼	08/03/17 08:41	08/04/17 16:49	1
Aroclor-1260	65	U	65	23	ug/Kg	☼	08/03/17 08:41	08/04/17 16:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	69		14 - 128	08/03/17 08:41	08/04/17 16:49	1
DCB Decachlorobiphenyl	79		10 - 132	08/03/17 08:41	08/04/17 16:49	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-073117-SK-002

Lab Sample ID: 240-83124-2

Date Collected: 07/31/17 12:20

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 81.1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	81.1		0.1	0.1	%			08/03/17 08:27	1
Percent Moisture	18.9		0.1	0.1	%			08/03/17 08:27	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-073117-SK-003

Lab Sample ID: 240-83124-3

Date Collected: 07/31/17 14:30

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 87.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1100	U	1100	110	ug/Kg	☼	08/03/17 10:29	08/04/17 05:16	1
Benzene	270	U	270	26	ug/Kg	☼	08/03/17 10:29	08/04/17 05:16	1
Dichlorobromomethane	270	U	270	20	ug/Kg	☼	08/03/17 10:29	08/04/17 05:16	1
Bromoform	270	U	270	25	ug/Kg	☼	08/03/17 10:29	08/04/17 05:16	1
Bromomethane	270	U	270	31	ug/Kg	☼	08/03/17 10:29	08/04/17 05:16	1
2-Butanone (MEK)	1100	U	1100	55	ug/Kg	☼	08/03/17 10:29	08/04/17 05:16	1
Carbon disulfide	270	U	270	20	ug/Kg	☼	08/03/17 10:29	08/04/17 05:16	1
Carbon tetrachloride	270	U	270	30	ug/Kg	☼	08/03/17 10:29	08/04/17 05:16	1
Chlorobenzene	270	U	270	33	ug/Kg	☼	08/03/17 10:29	08/04/17 05:16	1
Chloroethane	270	U	270	31	ug/Kg	☼	08/03/17 10:29	08/04/17 05:16	1
Chloroform	270	U	270	26	ug/Kg	☼	08/03/17 10:29	08/04/17 05:16	1
Chloromethane	270	U	270	20	ug/Kg	☼	08/03/17 10:29	08/04/17 05:16	1
1,1-Dichloroethane	270	U	270	34	ug/Kg	☼	08/03/17 10:29	08/04/17 05:16	1
1,2-Dichloroethane	270	U	270	33	ug/Kg	☼	08/03/17 10:29	08/04/17 05:16	1
1,1-Dichloroethene	270	U	270	39	ug/Kg	☼	08/03/17 10:29	08/04/17 05:16	1
1,2-Dichloropropane	270	U	270	33	ug/Kg	☼	08/03/17 10:29	08/04/17 05:16	1
cis-1,3-Dichloropropene	270	U	270	25	ug/Kg	☼	08/03/17 10:29	08/04/17 05:16	1
trans-1,3-Dichloropropene	270	U	270	16	ug/Kg	☼	08/03/17 10:29	08/04/17 05:16	1
Ethylbenzene	270	U	270	38	ug/Kg	☼	08/03/17 10:29	08/04/17 05:16	1
2-Hexanone	1100	U	1100	94	ug/Kg	☼	08/03/17 10:29	08/04/17 05:16	1
Methylene Chloride	270	U	270	71	ug/Kg	☼	08/03/17 10:29	08/04/17 05:16	1
4-Methyl-2-pentanone (MIBK)	1100	U	1100	44	ug/Kg	☼	08/03/17 10:29	08/04/17 05:16	1
Styrene	270	U	270	11	ug/Kg	☼	08/03/17 10:29	08/04/17 05:16	1
1,1,2,2-Tetrachloroethane	270	U	270	26	ug/Kg	☼	08/03/17 10:29	08/04/17 05:16	1
Tetrachloroethene	270	U	270	23	ug/Kg	☼	08/03/17 10:29	08/04/17 05:16	1
Toluene	270	U	270	26	ug/Kg	☼	08/03/17 10:29	08/04/17 05:16	1
Trichloroethene	270	U	270	41	ug/Kg	☼	08/03/17 10:29	08/04/17 05:16	1
Vinyl chloride	270	U	270	19	ug/Kg	☼	08/03/17 10:29	08/04/17 05:16	1
Xylenes, Total	550	U	550	31	ug/Kg	☼	08/03/17 10:29	08/04/17 05:16	1
1,1,1-Trichloroethane	270	U	270	31	ug/Kg	☼	08/03/17 10:29	08/04/17 05:16	1
1,1,2-Trichloroethane	270	U	270	25	ug/Kg	☼	08/03/17 10:29	08/04/17 05:16	1
Cyclohexane	550	U	550	33	ug/Kg	☼	08/03/17 10:29	08/04/17 05:16	1
1,2-Dibromo-3-Chloropropane	550	U	550	53	ug/Kg	☼	08/03/17 10:29	08/04/17 05:16	1
Ethylene Dibromide	270	U	270	25	ug/Kg	☼	08/03/17 10:29	08/04/17 05:16	1
Dichlorodifluoromethane	270	U	270	24	ug/Kg	☼	08/03/17 10:29	08/04/17 05:16	1
cis-1,2-Dichloroethene	270	U	270	38	ug/Kg	☼	08/03/17 10:29	08/04/17 05:16	1
trans-1,2-Dichloroethene	270	U	270	38	ug/Kg	☼	08/03/17 10:29	08/04/17 05:16	1
Isopropylbenzene	270	U	270	37	ug/Kg	☼	08/03/17 10:29	08/04/17 05:16	1
Methyl acetate	120	J	1400	82	ug/Kg	☼	08/03/17 10:29	08/04/17 05:16	1
Methyl tert-butyl ether	270	U	270	29	ug/Kg	☼	08/03/17 10:29	08/04/17 05:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	270	U	270	25	ug/Kg	☼	08/03/17 10:29	08/04/17 05:16	1
1,2,4-Trichlorobenzene	270	U	270	29	ug/Kg	☼	08/03/17 10:29	08/04/17 05:16	1
1,2-Dichlorobenzene	270	U	270	20	ug/Kg	☼	08/03/17 10:29	08/04/17 05:16	1
1,3-Dichlorobenzene	270	U	270	42	ug/Kg	☼	08/03/17 10:29	08/04/17 05:16	1
1,4-Dichlorobenzene	270	U	270	30	ug/Kg	☼	08/03/17 10:29	08/04/17 05:16	1
Trichlorofluoromethane	270	U	270	37	ug/Kg	☼	08/03/17 10:29	08/04/17 05:16	1
Chlorodibromomethane	270	U	270	37	ug/Kg	☼	08/03/17 10:29	08/04/17 05:16	1
Methylcyclohexane	550	U	550	41	ug/Kg	☼	08/03/17 10:29	08/04/17 05:16	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-073117-SK-003

Date Collected: 07/31/17 14:30

Date Received: 08/02/17 09:30

Lab Sample ID: 240-83124-3

Matrix: Solid

Percent Solids: 87.8

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	143		64 - 144	08/03/17 10:29	08/04/17 05:16	1
4-Bromofluorobenzene (Surr)	146	X	58 - 142	08/03/17 10:29	08/04/17 05:16	1
Toluene-d8 (Surr)	135		61 - 137	08/03/17 10:29	08/04/17 05:16	1
Dibromofluoromethane (Surr)	123		31 - 155	08/03/17 10:29	08/04/17 05:16	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-073117-SK-003

Lab Sample ID: 240-83124-3

Date Collected: 07/31/17 14:30

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 87.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	60	U	60	29	ug/Kg	☼	08/03/17 08:41	08/04/17 17:09	1
Aroclor-1221	60	U	60	27	ug/Kg	☼	08/03/17 08:41	08/04/17 17:09	1
Aroclor-1232	60	U	60	19	ug/Kg	☼	08/03/17 08:41	08/04/17 17:09	1
Aroclor-1242	60	U	60	24	ug/Kg	☼	08/03/17 08:41	08/04/17 17:09	1
Aroclor-1248	60	U	60	20	ug/Kg	☼	08/03/17 08:41	08/04/17 17:09	1
Aroclor-1254	60	U	60	17	ug/Kg	☼	08/03/17 08:41	08/04/17 17:09	1
Aroclor-1260	60	U	60	22	ug/Kg	☼	08/03/17 08:41	08/04/17 17:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	59		14 - 128	08/03/17 08:41	08/04/17 17:09	1
DCB Decachlorobiphenyl	83		10 - 132	08/03/17 08:41	08/04/17 17:09	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-073117-SK-003

Lab Sample ID: 240-83124-3

Date Collected: 07/31/17 14:30

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 87.8

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	87.8		0.1	0.1	%			08/03/17 08:27	1
Percent Moisture	12.2		0.1	0.1	%			08/03/17 08:27	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-073117-SK-004

Lab Sample ID: 240-83124-4

Date Collected: 07/31/17 14:35

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 78.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1500	U	1500	150	ug/Kg	☼	08/03/17 10:29	08/04/17 06:10	1
Benzene	380	U	380	36	ug/Kg	☼	08/03/17 10:29	08/04/17 06:10	1
Dichlorobromomethane	380	U	380	27	ug/Kg	☼	08/03/17 10:29	08/04/17 06:10	1
Bromoform	380	U	380	35	ug/Kg	☼	08/03/17 10:29	08/04/17 06:10	1
Bromomethane	380	U	380	42	ug/Kg	☼	08/03/17 10:29	08/04/17 06:10	1
2-Butanone (MEK)	1500	U	1500	75	ug/Kg	☼	08/03/17 10:29	08/04/17 06:10	1
Carbon disulfide	380	U	380	27	ug/Kg	☼	08/03/17 10:29	08/04/17 06:10	1
Carbon tetrachloride	380	U	380	41	ug/Kg	☼	08/03/17 10:29	08/04/17 06:10	1
Chlorobenzene	380	U	380	45	ug/Kg	☼	08/03/17 10:29	08/04/17 06:10	1
Chloroethane	380	U	380	42	ug/Kg	☼	08/03/17 10:29	08/04/17 06:10	1
Chloroform	380	U	380	36	ug/Kg	☼	08/03/17 10:29	08/04/17 06:10	1
Chloromethane	380	U	380	27	ug/Kg	☼	08/03/17 10:29	08/04/17 06:10	1
1,1-Dichloroethane	380	U	380	47	ug/Kg	☼	08/03/17 10:29	08/04/17 06:10	1
1,2-Dichloroethane	380	U	380	45	ug/Kg	☼	08/03/17 10:29	08/04/17 06:10	1
1,1-Dichloroethene	380	U	380	54	ug/Kg	☼	08/03/17 10:29	08/04/17 06:10	1
1,2-Dichloropropane	380	U	380	45	ug/Kg	☼	08/03/17 10:29	08/04/17 06:10	1
cis-1,3-Dichloropropene	380	U	380	35	ug/Kg	☼	08/03/17 10:29	08/04/17 06:10	1
trans-1,3-Dichloropropene	380	U	380	23	ug/Kg	☼	08/03/17 10:29	08/04/17 06:10	1
Ethylbenzene	380	U	380	53	ug/Kg	☼	08/03/17 10:29	08/04/17 06:10	1
2-Hexanone	1500	U	1500	130	ug/Kg	☼	08/03/17 10:29	08/04/17 06:10	1
Methylene Chloride	380	U	380	98	ug/Kg	☼	08/03/17 10:29	08/04/17 06:10	1
4-Methyl-2-pentanone (MIBK)	1500	U	1500	60	ug/Kg	☼	08/03/17 10:29	08/04/17 06:10	1
Styrene	380	U	380	15	ug/Kg	☼	08/03/17 10:29	08/04/17 06:10	1
1,1,2,2-Tetrachloroethane	380	U	380	36	ug/Kg	☼	08/03/17 10:29	08/04/17 06:10	1
Tetrachloroethene	380	U	380	32	ug/Kg	☼	08/03/17 10:29	08/04/17 06:10	1
Toluene	380	U	380	36	ug/Kg	☼	08/03/17 10:29	08/04/17 06:10	1
Trichloroethene	380	U	380	56	ug/Kg	☼	08/03/17 10:29	08/04/17 06:10	1
Vinyl chloride	380	U	380	26	ug/Kg	☼	08/03/17 10:29	08/04/17 06:10	1
Xylenes, Total	750	U	750	42	ug/Kg	☼	08/03/17 10:29	08/04/17 06:10	1
1,1,1-Trichloroethane	380	U	380	42	ug/Kg	☼	08/03/17 10:29	08/04/17 06:10	1
1,1,2-Trichloroethane	380	U	380	35	ug/Kg	☼	08/03/17 10:29	08/04/17 06:10	1
Cyclohexane	750	U	750	45	ug/Kg	☼	08/03/17 10:29	08/04/17 06:10	1
1,2-Dibromo-3-Chloropropane	750	U	750	72	ug/Kg	☼	08/03/17 10:29	08/04/17 06:10	1
Ethylene Dibromide	380	U	380	35	ug/Kg	☼	08/03/17 10:29	08/04/17 06:10	1
Dichlorodifluoromethane	380	U	380	33	ug/Kg	☼	08/03/17 10:29	08/04/17 06:10	1
cis-1,2-Dichloroethene	380	U	380	53	ug/Kg	☼	08/03/17 10:29	08/04/17 06:10	1
trans-1,2-Dichloroethene	380	U	380	53	ug/Kg	☼	08/03/17 10:29	08/04/17 06:10	1
Isopropylbenzene	380	U	380	51	ug/Kg	☼	08/03/17 10:29	08/04/17 06:10	1
Methyl acetate	1900	U	1900	110	ug/Kg	☼	08/03/17 10:29	08/04/17 06:10	1
Methyl tert-butyl ether	380	U	380	39	ug/Kg	☼	08/03/17 10:29	08/04/17 06:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	380	U	380	35	ug/Kg	☼	08/03/17 10:29	08/04/17 06:10	1
1,2,4-Trichlorobenzene	380	U	380	39	ug/Kg	☼	08/03/17 10:29	08/04/17 06:10	1
1,2-Dichlorobenzene	380	U	380	27	ug/Kg	☼	08/03/17 10:29	08/04/17 06:10	1
1,3-Dichlorobenzene	380	U	380	57	ug/Kg	☼	08/03/17 10:29	08/04/17 06:10	1
1,4-Dichlorobenzene	380	U	380	41	ug/Kg	☼	08/03/17 10:29	08/04/17 06:10	1
Trichlorofluoromethane	380	U	380	51	ug/Kg	☼	08/03/17 10:29	08/04/17 06:10	1
Chlorodibromomethane	380	U	380	51	ug/Kg	☼	08/03/17 10:29	08/04/17 06:10	1
Methylcyclohexane	750	U	750	56	ug/Kg	☼	08/03/17 10:29	08/04/17 06:10	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-073117-SK-004

Date Collected: 07/31/17 14:35

Date Received: 08/02/17 09:30

Lab Sample ID: 240-83124-4

Matrix: Solid

Percent Solids: 78.2

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	115		64 - 144	08/03/17 10:29	08/04/17 06:10	1
4-Bromofluorobenzene (Surr)	103		58 - 142	08/03/17 10:29	08/04/17 06:10	1
Toluene-d8 (Surr)	109		61 - 137	08/03/17 10:29	08/04/17 06:10	1
Dibromofluoromethane (Surr)	108		31 - 155	08/03/17 10:29	08/04/17 06:10	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-073117-SK-004

Lab Sample ID: 240-83124-4

Date Collected: 07/31/17 14:35

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 78.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	67	U	67	32	ug/Kg	☼	08/03/17 08:41	08/04/17 17:28	1
Aroclor-1221	67	U	67	31	ug/Kg	☼	08/03/17 08:41	08/04/17 17:28	1
Aroclor-1232	67	U	67	21	ug/Kg	☼	08/03/17 08:41	08/04/17 17:28	1
Aroclor-1242	67	U	67	27	ug/Kg	☼	08/03/17 08:41	08/04/17 17:28	1
Aroclor-1248	67	U	67	23	ug/Kg	☼	08/03/17 08:41	08/04/17 17:28	1
Aroclor-1254	67	U	67	19	ug/Kg	☼	08/03/17 08:41	08/04/17 17:28	1
Aroclor-1260	67	U	67	24	ug/Kg	☼	08/03/17 08:41	08/04/17 17:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	71		14 - 128	08/03/17 08:41	08/04/17 17:28	1
DCB Decachlorobiphenyl	98		10 - 132	08/03/17 08:41	08/04/17 17:28	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-073117-SK-004

Lab Sample ID: 240-83124-4

Date Collected: 07/31/17 14:35

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 78.2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	78.2		0.1	0.1	%			08/03/17 08:27	1
Percent Moisture	21.8		0.1	0.1	%			08/03/17 08:27	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-073117-SK-005

Lab Sample ID: 240-83124-5

Date Collected: 07/31/17 15:55

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1300	U	1300	130	ug/Kg	☼	08/03/17 10:29	08/04/17 06:32	1
Benzene	330	U	330	32	ug/Kg	☼	08/03/17 10:29	08/04/17 06:32	1
Dichlorobromomethane	330	U	330	24	ug/Kg	☼	08/03/17 10:29	08/04/17 06:32	1
Bromoform	330	U	330	31	ug/Kg	☼	08/03/17 10:29	08/04/17 06:32	1
Bromomethane	330	U	330	37	ug/Kg	☼	08/03/17 10:29	08/04/17 06:32	1
2-Butanone (MEK)	1300	U	1300	67	ug/Kg	☼	08/03/17 10:29	08/04/17 06:32	1
Carbon disulfide	330	U	330	24	ug/Kg	☼	08/03/17 10:29	08/04/17 06:32	1
Carbon tetrachloride	330	U	330	36	ug/Kg	☼	08/03/17 10:29	08/04/17 06:32	1
Chlorobenzene	330	U	330	40	ug/Kg	☼	08/03/17 10:29	08/04/17 06:32	1
Chloroethane	330	U	330	37	ug/Kg	☼	08/03/17 10:29	08/04/17 06:32	1
Chloroform	330	U	330	32	ug/Kg	☼	08/03/17 10:29	08/04/17 06:32	1
Chloromethane	330	U	330	24	ug/Kg	☼	08/03/17 10:29	08/04/17 06:32	1
1,1-Dichloroethane	330	U	330	41	ug/Kg	☼	08/03/17 10:29	08/04/17 06:32	1
1,2-Dichloroethane	330	U	330	40	ug/Kg	☼	08/03/17 10:29	08/04/17 06:32	1
1,1-Dichloroethene	330	U	330	48	ug/Kg	☼	08/03/17 10:29	08/04/17 06:32	1
1,2-Dichloropropane	330	U	330	40	ug/Kg	☼	08/03/17 10:29	08/04/17 06:32	1
cis-1,3-Dichloropropene	330	U	330	31	ug/Kg	☼	08/03/17 10:29	08/04/17 06:32	1
trans-1,3-Dichloropropene	330	U	330	20	ug/Kg	☼	08/03/17 10:29	08/04/17 06:32	1
Ethylbenzene	330	U	330	47	ug/Kg	☼	08/03/17 10:29	08/04/17 06:32	1
2-Hexanone	1300	U	1300	110	ug/Kg	☼	08/03/17 10:29	08/04/17 06:32	1
Methylene Chloride	330	U	330	87	ug/Kg	☼	08/03/17 10:29	08/04/17 06:32	1
4-Methyl-2-pentanone (MIBK)	1300	U	1300	53	ug/Kg	☼	08/03/17 10:29	08/04/17 06:32	1
Styrene	330	U	330	13	ug/Kg	☼	08/03/17 10:29	08/04/17 06:32	1
1,1,2,2-Tetrachloroethane	330	U	330	32	ug/Kg	☼	08/03/17 10:29	08/04/17 06:32	1
Tetrachloroethene	330	U	330	28	ug/Kg	☼	08/03/17 10:29	08/04/17 06:32	1
Toluene	330	U	330	32	ug/Kg	☼	08/03/17 10:29	08/04/17 06:32	1
Trichloroethene	330	U	330	49	ug/Kg	☼	08/03/17 10:29	08/04/17 06:32	1
Vinyl chloride	330	U	330	23	ug/Kg	☼	08/03/17 10:29	08/04/17 06:32	1
Xylenes, Total	670	U	670	37	ug/Kg	☼	08/03/17 10:29	08/04/17 06:32	1
1,1,1-Trichloroethane	330	U	330	37	ug/Kg	☼	08/03/17 10:29	08/04/17 06:32	1
1,1,2-Trichloroethane	330	U	330	31	ug/Kg	☼	08/03/17 10:29	08/04/17 06:32	1
Cyclohexane	670	U	670	40	ug/Kg	☼	08/03/17 10:29	08/04/17 06:32	1
1,2-Dibromo-3-Chloropropane	670	U	670	64	ug/Kg	☼	08/03/17 10:29	08/04/17 06:32	1
Ethylene Dibromide	330	U	330	31	ug/Kg	☼	08/03/17 10:29	08/04/17 06:32	1
Dichlorodifluoromethane	330	U	330	29	ug/Kg	☼	08/03/17 10:29	08/04/17 06:32	1
cis-1,2-Dichloroethene	330	U	330	47	ug/Kg	☼	08/03/17 10:29	08/04/17 06:32	1
trans-1,2-Dichloroethene	330	U	330	47	ug/Kg	☼	08/03/17 10:29	08/04/17 06:32	1
Isopropylbenzene	330	U	330	45	ug/Kg	☼	08/03/17 10:29	08/04/17 06:32	1
Methyl acetate	1700	U	1700	100	ug/Kg	☼	08/03/17 10:29	08/04/17 06:32	1
Methyl tert-butyl ether	330	U	330	35	ug/Kg	☼	08/03/17 10:29	08/04/17 06:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	330	U	330	31	ug/Kg	☼	08/03/17 10:29	08/04/17 06:32	1
1,2,4-Trichlorobenzene	330	U	330	35	ug/Kg	☼	08/03/17 10:29	08/04/17 06:32	1
1,2-Dichlorobenzene	330	U	330	24	ug/Kg	☼	08/03/17 10:29	08/04/17 06:32	1
1,3-Dichlorobenzene	330	U	330	51	ug/Kg	☼	08/03/17 10:29	08/04/17 06:32	1
1,4-Dichlorobenzene	330	U	330	36	ug/Kg	☼	08/03/17 10:29	08/04/17 06:32	1
Trichlorofluoromethane	330	U	330	45	ug/Kg	☼	08/03/17 10:29	08/04/17 06:32	1
Chlorodibromomethane	330	U	330	45	ug/Kg	☼	08/03/17 10:29	08/04/17 06:32	1
Methylcyclohexane	670	U	670	49	ug/Kg	☼	08/03/17 10:29	08/04/17 06:32	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-073117-SK-005

Date Collected: 07/31/17 15:55

Date Received: 08/02/17 09:30

Lab Sample ID: 240-83124-5

Matrix: Solid

Percent Solids: 84.2

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	124		64 - 144	08/03/17 10:29	08/04/17 06:32	1
4-Bromofluorobenzene (Surr)	121		58 - 142	08/03/17 10:29	08/04/17 06:32	1
Toluene-d8 (Surr)	119		61 - 137	08/03/17 10:29	08/04/17 06:32	1
Dibromofluoromethane (Surr)	113		31 - 155	08/03/17 10:29	08/04/17 06:32	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-073117-SK-005

Lab Sample ID: 240-83124-5

Date Collected: 07/31/17 15:55

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	59	U	59	28	ug/Kg	☼	08/03/17 08:41	08/04/17 17:48	1
Aroclor-1221	59	U	59	27	ug/Kg	☼	08/03/17 08:41	08/04/17 17:48	1
Aroclor-1232	59	U	59	19	ug/Kg	☼	08/03/17 08:41	08/04/17 17:48	1
Aroclor-1242	59	U	59	24	ug/Kg	☼	08/03/17 08:41	08/04/17 17:48	1
Aroclor-1248	59	U	59	20	ug/Kg	☼	08/03/17 08:41	08/04/17 17:48	1
Aroclor-1254	59	U	59	17	ug/Kg	☼	08/03/17 08:41	08/04/17 17:48	1
Aroclor-1260	59	U	59	21	ug/Kg	☼	08/03/17 08:41	08/04/17 17:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	70		14 - 128	08/03/17 08:41	08/04/17 17:48	1
DCB Decachlorobiphenyl	97		10 - 132	08/03/17 08:41	08/04/17 17:48	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-073117-SK-005

Lab Sample ID: 240-83124-5

Date Collected: 07/31/17 15:55

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 84.2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	84.2		0.1	0.1	%			08/03/17 08:27	1
Percent Moisture	15.8		0.1	0.1	%			08/03/17 08:27	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-073117-SK-006

Lab Sample ID: 240-83124-6

Date Collected: 07/31/17 16:05

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1300	U	1300	130	ug/Kg	☼	08/03/17 10:29	08/04/17 06:54	1
Benzene	330	U	330	31	ug/Kg	☼	08/03/17 10:29	08/04/17 06:54	1
Dichlorobromomethane	330	U	330	23	ug/Kg	☼	08/03/17 10:29	08/04/17 06:54	1
Bromoform	330	U	330	30	ug/Kg	☼	08/03/17 10:29	08/04/17 06:54	1
Bromomethane	330	U	330	37	ug/Kg	☼	08/03/17 10:29	08/04/17 06:54	1
2-Butanone (MEK)	1300	U	1300	65	ug/Kg	☼	08/03/17 10:29	08/04/17 06:54	1
Carbon disulfide	330	U	330	23	ug/Kg	☼	08/03/17 10:29	08/04/17 06:54	1
Carbon tetrachloride	330	U	330	35	ug/Kg	☼	08/03/17 10:29	08/04/17 06:54	1
Chlorobenzene	330	U	330	39	ug/Kg	☼	08/03/17 10:29	08/04/17 06:54	1
Chloroethane	330	U	330	37	ug/Kg	☼	08/03/17 10:29	08/04/17 06:54	1
Chloroform	330	U	330	31	ug/Kg	☼	08/03/17 10:29	08/04/17 06:54	1
Chloromethane	330	U	330	23	ug/Kg	☼	08/03/17 10:29	08/04/17 06:54	1
1,1-Dichloroethane	330	U	330	40	ug/Kg	☼	08/03/17 10:29	08/04/17 06:54	1
1,2-Dichloroethane	330	U	330	39	ug/Kg	☼	08/03/17 10:29	08/04/17 06:54	1
1,1-Dichloroethene	330	U	330	47	ug/Kg	☼	08/03/17 10:29	08/04/17 06:54	1
1,2-Dichloropropane	330	U	330	39	ug/Kg	☼	08/03/17 10:29	08/04/17 06:54	1
cis-1,3-Dichloropropene	330	U	330	30	ug/Kg	☼	08/03/17 10:29	08/04/17 06:54	1
trans-1,3-Dichloropropene	330	U	330	20	ug/Kg	☼	08/03/17 10:29	08/04/17 06:54	1
Ethylbenzene	330	U	330	46	ug/Kg	☼	08/03/17 10:29	08/04/17 06:54	1
2-Hexanone	1300	U	1300	110	ug/Kg	☼	08/03/17 10:29	08/04/17 06:54	1
Methylene Chloride	330	U	330	85	ug/Kg	☼	08/03/17 10:29	08/04/17 06:54	1
4-Methyl-2-pentanone (MIBK)	1300	U	1300	52	ug/Kg	☼	08/03/17 10:29	08/04/17 06:54	1
Styrene	330	U	330	13	ug/Kg	☼	08/03/17 10:29	08/04/17 06:54	1
1,1,2,2-Tetrachloroethane	330	U	330	31	ug/Kg	☼	08/03/17 10:29	08/04/17 06:54	1
Tetrachloroethene	330	U	330	27	ug/Kg	☼	08/03/17 10:29	08/04/17 06:54	1
Toluene	330	U	330	31	ug/Kg	☼	08/03/17 10:29	08/04/17 06:54	1
Trichloroethene	330	U	330	48	ug/Kg	☼	08/03/17 10:29	08/04/17 06:54	1
Vinyl chloride	330	U	330	22	ug/Kg	☼	08/03/17 10:29	08/04/17 06:54	1
Xylenes, Total	650	U	650	37	ug/Kg	☼	08/03/17 10:29	08/04/17 06:54	1
1,1,1-Trichloroethane	330	U	330	37	ug/Kg	☼	08/03/17 10:29	08/04/17 06:54	1
1,1,2-Trichloroethane	330	U	330	30	ug/Kg	☼	08/03/17 10:29	08/04/17 06:54	1
Cyclohexane	650	U	650	39	ug/Kg	☼	08/03/17 10:29	08/04/17 06:54	1
1,2-Dibromo-3-Chloropropane	650	U	650	63	ug/Kg	☼	08/03/17 10:29	08/04/17 06:54	1
Ethylene Dibromide	330	U	330	30	ug/Kg	☼	08/03/17 10:29	08/04/17 06:54	1
Dichlorodifluoromethane	330	U	330	29	ug/Kg	☼	08/03/17 10:29	08/04/17 06:54	1
cis-1,2-Dichloroethene	330	U	330	46	ug/Kg	☼	08/03/17 10:29	08/04/17 06:54	1
trans-1,2-Dichloroethene	330	U	330	46	ug/Kg	☼	08/03/17 10:29	08/04/17 06:54	1
Isopropylbenzene	330	U	330	44	ug/Kg	☼	08/03/17 10:29	08/04/17 06:54	1
Methyl acetate	1600	U	1600	98	ug/Kg	☼	08/03/17 10:29	08/04/17 06:54	1
Methyl tert-butyl ether	330	U	330	34	ug/Kg	☼	08/03/17 10:29	08/04/17 06:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	330	U	330	30	ug/Kg	☼	08/03/17 10:29	08/04/17 06:54	1
1,2,4-Trichlorobenzene	330	U	330	34	ug/Kg	☼	08/03/17 10:29	08/04/17 06:54	1
1,2-Dichlorobenzene	330	U	330	23	ug/Kg	☼	08/03/17 10:29	08/04/17 06:54	1
1,3-Dichlorobenzene	330	U	330	50	ug/Kg	☼	08/03/17 10:29	08/04/17 06:54	1
1,4-Dichlorobenzene	330	U	330	35	ug/Kg	☼	08/03/17 10:29	08/04/17 06:54	1
Trichlorofluoromethane	330	U	330	44	ug/Kg	☼	08/03/17 10:29	08/04/17 06:54	1
Chlorodibromomethane	330	U	330	44	ug/Kg	☼	08/03/17 10:29	08/04/17 06:54	1
Methylcyclohexane	650	U	650	48	ug/Kg	☼	08/03/17 10:29	08/04/17 06:54	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-073117-SK-006

Date Collected: 07/31/17 16:05

Date Received: 08/02/17 09:30

Lab Sample ID: 240-83124-6

Matrix: Solid

Percent Solids: 82.1

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	136		64 - 144	08/03/17 10:29	08/04/17 06:54	1
4-Bromofluorobenzene (Surr)	136		58 - 142	08/03/17 10:29	08/04/17 06:54	1
Toluene-d8 (Surr)	134		61 - 137	08/03/17 10:29	08/04/17 06:54	1
Dibromofluoromethane (Surr)	121		31 - 155	08/03/17 10:29	08/04/17 06:54	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-073117-SK-006

Lab Sample ID: 240-83124-6

Date Collected: 07/31/17 16:05

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	64	U	64	31	ug/Kg	☼	08/03/17 08:41	08/04/17 18:08	1
Aroclor-1221	64	U	64	29	ug/Kg	☼	08/03/17 08:41	08/04/17 18:08	1
Aroclor-1232	64	U	64	20	ug/Kg	☼	08/03/17 08:41	08/04/17 18:08	1
Aroclor-1242	64	U	64	26	ug/Kg	☼	08/03/17 08:41	08/04/17 18:08	1
Aroclor-1248	64	U	64	22	ug/Kg	☼	08/03/17 08:41	08/04/17 18:08	1
Aroclor-1254	64	U	64	18	ug/Kg	☼	08/03/17 08:41	08/04/17 18:08	1
Aroclor-1260	64	U	64	23	ug/Kg	☼	08/03/17 08:41	08/04/17 18:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	60		14 - 128	08/03/17 08:41	08/04/17 18:08	1
DCB Decachlorobiphenyl	91		10 - 132	08/03/17 08:41	08/04/17 18:08	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-073117-SK-006

Lab Sample ID: 240-83124-6

Date Collected: 07/31/17 16:05

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 82.1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	82.1		0.1	0.1	%			08/03/17 08:27	1
Percent Moisture	17.9		0.1	0.1	%			08/03/17 08:27	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-073117-SK-007

Lab Sample ID: 240-83124-7

Date Collected: 07/31/17 17:05

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 79.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1400	U	1400	140	ug/Kg	☼	08/03/17 10:29	08/04/17 07:15	1
Benzene	360	U	360	35	ug/Kg	☼	08/03/17 10:29	08/04/17 07:15	1
Dichlorobromomethane	360	U	360	26	ug/Kg	☼	08/03/17 10:29	08/04/17 07:15	1
Bromoform	360	U	360	33	ug/Kg	☼	08/03/17 10:29	08/04/17 07:15	1
Bromomethane	360	U	360	40	ug/Kg	☼	08/03/17 10:29	08/04/17 07:15	1
2-Butanone (MEK)	1400	U	1400	72	ug/Kg	☼	08/03/17 10:29	08/04/17 07:15	1
Carbon disulfide	360	U	360	26	ug/Kg	☼	08/03/17 10:29	08/04/17 07:15	1
Carbon tetrachloride	360	U	360	39	ug/Kg	☼	08/03/17 10:29	08/04/17 07:15	1
Chlorobenzene	360	U	360	43	ug/Kg	☼	08/03/17 10:29	08/04/17 07:15	1
Chloroethane	360	U	360	40	ug/Kg	☼	08/03/17 10:29	08/04/17 07:15	1
Chloroform	360	U	360	35	ug/Kg	☼	08/03/17 10:29	08/04/17 07:15	1
Chloromethane	360	U	360	26	ug/Kg	☼	08/03/17 10:29	08/04/17 07:15	1
1,1-Dichloroethane	360	U	360	45	ug/Kg	☼	08/03/17 10:29	08/04/17 07:15	1
1,2-Dichloroethane	360	U	360	43	ug/Kg	☼	08/03/17 10:29	08/04/17 07:15	1
1,1-Dichloroethene	360	U	360	52	ug/Kg	☼	08/03/17 10:29	08/04/17 07:15	1
1,2-Dichloropropane	360	U	360	43	ug/Kg	☼	08/03/17 10:29	08/04/17 07:15	1
cis-1,3-Dichloropropene	360	U	360	33	ug/Kg	☼	08/03/17 10:29	08/04/17 07:15	1
trans-1,3-Dichloropropene	360	U	360	22	ug/Kg	☼	08/03/17 10:29	08/04/17 07:15	1
Ethylbenzene	360	U	360	50	ug/Kg	☼	08/03/17 10:29	08/04/17 07:15	1
2-Hexanone	1400	U	1400	120	ug/Kg	☼	08/03/17 10:29	08/04/17 07:15	1
Methylene Chloride	360	U	360	94	ug/Kg	☼	08/03/17 10:29	08/04/17 07:15	1
4-Methyl-2-pentanone (MIBK)	1400	U	1400	58	ug/Kg	☼	08/03/17 10:29	08/04/17 07:15	1
Styrene	360	U	360	14	ug/Kg	☼	08/03/17 10:29	08/04/17 07:15	1
1,1,2,2-Tetrachloroethane	360	U	360	35	ug/Kg	☼	08/03/17 10:29	08/04/17 07:15	1
Tetrachloroethene	360	U	360	30	ug/Kg	☼	08/03/17 10:29	08/04/17 07:15	1
Toluene	360	U	360	35	ug/Kg	☼	08/03/17 10:29	08/04/17 07:15	1
Trichloroethene	360	U	360	53	ug/Kg	☼	08/03/17 10:29	08/04/17 07:15	1
Vinyl chloride	360	U	360	25	ug/Kg	☼	08/03/17 10:29	08/04/17 07:15	1
Xylenes, Total	720	U	720	40	ug/Kg	☼	08/03/17 10:29	08/04/17 07:15	1
1,1,1-Trichloroethane	360	U	360	40	ug/Kg	☼	08/03/17 10:29	08/04/17 07:15	1
1,1,2-Trichloroethane	360	U	360	33	ug/Kg	☼	08/03/17 10:29	08/04/17 07:15	1
Cyclohexane	720	U	720	43	ug/Kg	☼	08/03/17 10:29	08/04/17 07:15	1
1,2-Dibromo-3-Chloropropane	720	U	720	69	ug/Kg	☼	08/03/17 10:29	08/04/17 07:15	1
Ethylene Dibromide	360	U	360	33	ug/Kg	☼	08/03/17 10:29	08/04/17 07:15	1
Dichlorodifluoromethane	360	U	360	32	ug/Kg	☼	08/03/17 10:29	08/04/17 07:15	1
cis-1,2-Dichloroethene	360	U	360	50	ug/Kg	☼	08/03/17 10:29	08/04/17 07:15	1
trans-1,2-Dichloroethene	360	U	360	50	ug/Kg	☼	08/03/17 10:29	08/04/17 07:15	1
Isopropylbenzene	360	U	360	49	ug/Kg	☼	08/03/17 10:29	08/04/17 07:15	1
Methyl acetate	120	J	1800	110	ug/Kg	☼	08/03/17 10:29	08/04/17 07:15	1
Methyl tert-butyl ether	360	U	360	37	ug/Kg	☼	08/03/17 10:29	08/04/17 07:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	360	U	360	33	ug/Kg	☼	08/03/17 10:29	08/04/17 07:15	1
1,2,4-Trichlorobenzene	360	U	360	37	ug/Kg	☼	08/03/17 10:29	08/04/17 07:15	1
1,2-Dichlorobenzene	360	U	360	26	ug/Kg	☼	08/03/17 10:29	08/04/17 07:15	1
1,3-Dichlorobenzene	360	U	360	55	ug/Kg	☼	08/03/17 10:29	08/04/17 07:15	1
1,4-Dichlorobenzene	360	U	360	39	ug/Kg	☼	08/03/17 10:29	08/04/17 07:15	1
Trichlorofluoromethane	360	U	360	49	ug/Kg	☼	08/03/17 10:29	08/04/17 07:15	1
Chlorodibromomethane	360	U	360	49	ug/Kg	☼	08/03/17 10:29	08/04/17 07:15	1
Methylcyclohexane	720	U	720	53	ug/Kg	☼	08/03/17 10:29	08/04/17 07:15	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-073117-SK-007

Date Collected: 07/31/17 17:05

Date Received: 08/02/17 09:30

Lab Sample ID: 240-83124-7

Matrix: Solid

Percent Solids: 79.4

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	153	X	64 - 144	08/03/17 10:29	08/04/17 07:15	1
4-Bromofluorobenzene (Surr)	148	X	58 - 142	08/03/17 10:29	08/04/17 07:15	1
Toluene-d8 (Surr)	144	X	61 - 137	08/03/17 10:29	08/04/17 07:15	1
Dibromofluoromethane (Surr)	133		31 - 155	08/03/17 10:29	08/04/17 07:15	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-073117-SK-007

Lab Sample ID: 240-83124-7

Date Collected: 07/31/17 17:05

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 79.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	65	U	65	31	ug/Kg	☼	08/03/17 08:41	08/04/17 18:28	1
Aroclor-1221	65	U	65	30	ug/Kg	☼	08/03/17 08:41	08/04/17 18:28	1
Aroclor-1232	65	U	65	21	ug/Kg	☼	08/03/17 08:41	08/04/17 18:28	1
Aroclor-1242	65	U	65	26	ug/Kg	☼	08/03/17 08:41	08/04/17 18:28	1
Aroclor-1248	65	U	65	22	ug/Kg	☼	08/03/17 08:41	08/04/17 18:28	1
Aroclor-1254	65	U	65	18	ug/Kg	☼	08/03/17 08:41	08/04/17 18:28	1
Aroclor-1260	65	U	65	23	ug/Kg	☼	08/03/17 08:41	08/04/17 18:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	75		14 - 128	08/03/17 08:41	08/04/17 18:28	1
DCB Decachlorobiphenyl	100		10 - 132	08/03/17 08:41	08/04/17 18:28	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-073117-SK-007

Lab Sample ID: 240-83124-7

Date Collected: 07/31/17 17:05

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 79.4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	79.4		0.1	0.1	%			08/03/17 08:27	1
Percent Moisture	20.6		0.1	0.1	%			08/03/17 08:27	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-073117-SK-008

Lab Sample ID: 240-83124-8

Date Collected: 07/31/17 17:10

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 78.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1400	U	1400	130	ug/Kg	☼	08/03/17 10:29	08/04/17 07:37	1
Benzene	340	U	340	33	ug/Kg	☼	08/03/17 10:29	08/04/17 07:37	1
Dichlorobromomethane	340	U	340	25	ug/Kg	☼	08/03/17 10:29	08/04/17 07:37	1
Bromoform	340	U	340	32	ug/Kg	☼	08/03/17 10:29	08/04/17 07:37	1
Bromomethane	340	U	340	39	ug/Kg	☼	08/03/17 10:29	08/04/17 07:37	1
2-Butanone (MEK)	1400	U	1400	69	ug/Kg	☼	08/03/17 10:29	08/04/17 07:37	1
Carbon disulfide	340	U	340	25	ug/Kg	☼	08/03/17 10:29	08/04/17 07:37	1
Carbon tetrachloride	340	U	340	37	ug/Kg	☼	08/03/17 10:29	08/04/17 07:37	1
Chlorobenzene	340	U	340	41	ug/Kg	☼	08/03/17 10:29	08/04/17 07:37	1
Chloroethane	340	U	340	39	ug/Kg	☼	08/03/17 10:29	08/04/17 07:37	1
Chloroform	340	U	340	33	ug/Kg	☼	08/03/17 10:29	08/04/17 07:37	1
Chloromethane	340	U	340	25	ug/Kg	☼	08/03/17 10:29	08/04/17 07:37	1
1,1-Dichloroethane	340	U	340	43	ug/Kg	☼	08/03/17 10:29	08/04/17 07:37	1
1,2-Dichloroethane	340	U	340	41	ug/Kg	☼	08/03/17 10:29	08/04/17 07:37	1
1,1-Dichloroethene	340	U	340	50	ug/Kg	☼	08/03/17 10:29	08/04/17 07:37	1
1,2-Dichloropropane	340	U	340	41	ug/Kg	☼	08/03/17 10:29	08/04/17 07:37	1
cis-1,3-Dichloropropene	340	U	340	32	ug/Kg	☼	08/03/17 10:29	08/04/17 07:37	1
trans-1,3-Dichloropropene	340	U	340	21	ug/Kg	☼	08/03/17 10:29	08/04/17 07:37	1
Ethylbenzene	340	U	340	48	ug/Kg	☼	08/03/17 10:29	08/04/17 07:37	1
2-Hexanone	1400	U	1400	120	ug/Kg	☼	08/03/17 10:29	08/04/17 07:37	1
Methylene Chloride	340	U	340	90	ug/Kg	☼	08/03/17 10:29	08/04/17 07:37	1
4-Methyl-2-pentanone (MIBK)	1400	U	1400	55	ug/Kg	☼	08/03/17 10:29	08/04/17 07:37	1
Styrene	340	U	340	14	ug/Kg	☼	08/03/17 10:29	08/04/17 07:37	1
1,1,2,2-Tetrachloroethane	340	U	340	33	ug/Kg	☼	08/03/17 10:29	08/04/17 07:37	1
Tetrachloroethene	340	U	340	29	ug/Kg	☼	08/03/17 10:29	08/04/17 07:37	1
Toluene	340	U	340	33	ug/Kg	☼	08/03/17 10:29	08/04/17 07:37	1
Trichloroethene	340	U	340	51	ug/Kg	☼	08/03/17 10:29	08/04/17 07:37	1
Vinyl chloride	340	U	340	23	ug/Kg	☼	08/03/17 10:29	08/04/17 07:37	1
Xylenes, Total	690	U	690	39	ug/Kg	☼	08/03/17 10:29	08/04/17 07:37	1
1,1,1-Trichloroethane	340	U	340	39	ug/Kg	☼	08/03/17 10:29	08/04/17 07:37	1
1,1,2-Trichloroethane	340	U	340	32	ug/Kg	☼	08/03/17 10:29	08/04/17 07:37	1
Cyclohexane	690	U	690	41	ug/Kg	☼	08/03/17 10:29	08/04/17 07:37	1
1,2-Dibromo-3-Chloropropane	690	U	690	66	ug/Kg	☼	08/03/17 10:29	08/04/17 07:37	1
Ethylene Dibromide	340	U	340	32	ug/Kg	☼	08/03/17 10:29	08/04/17 07:37	1
Dichlorodifluoromethane	340	U	340	30	ug/Kg	☼	08/03/17 10:29	08/04/17 07:37	1
cis-1,2-Dichloroethene	340	U	340	48	ug/Kg	☼	08/03/17 10:29	08/04/17 07:37	1
trans-1,2-Dichloroethene	340	U	340	48	ug/Kg	☼	08/03/17 10:29	08/04/17 07:37	1
Isopropylbenzene	340	U	340	47	ug/Kg	☼	08/03/17 10:29	08/04/17 07:37	1
Methyl acetate	120	J	1700	100	ug/Kg	☼	08/03/17 10:29	08/04/17 07:37	1
Methyl tert-butyl ether	340	U	340	36	ug/Kg	☼	08/03/17 10:29	08/04/17 07:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	340	U	340	32	ug/Kg	☼	08/03/17 10:29	08/04/17 07:37	1
1,2,4-Trichlorobenzene	340	U	340	36	ug/Kg	☼	08/03/17 10:29	08/04/17 07:37	1
1,2-Dichlorobenzene	340	U	340	25	ug/Kg	☼	08/03/17 10:29	08/04/17 07:37	1
1,3-Dichlorobenzene	340	U	340	52	ug/Kg	☼	08/03/17 10:29	08/04/17 07:37	1
1,4-Dichlorobenzene	340	U	340	37	ug/Kg	☼	08/03/17 10:29	08/04/17 07:37	1
Trichlorofluoromethane	340	U	340	47	ug/Kg	☼	08/03/17 10:29	08/04/17 07:37	1
Chlorodibromomethane	340	U	340	47	ug/Kg	☼	08/03/17 10:29	08/04/17 07:37	1
Methylcyclohexane	690	U	690	51	ug/Kg	☼	08/03/17 10:29	08/04/17 07:37	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-073117-SK-008

Date Collected: 07/31/17 17:10

Date Received: 08/02/17 09:30

Lab Sample ID: 240-83124-8

Matrix: Solid

Percent Solids: 78.4

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	113		64 - 144	08/03/17 10:29	08/04/17 07:37	1
4-Bromofluorobenzene (Surr)	107		58 - 142	08/03/17 10:29	08/04/17 07:37	1
Toluene-d8 (Surr)	109		61 - 137	08/03/17 10:29	08/04/17 07:37	1
Dibromofluoromethane (Surr)	102		31 - 155	08/03/17 10:29	08/04/17 07:37	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-073117-SK-008

Lab Sample ID: 240-83124-8

Date Collected: 07/31/17 17:10

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 78.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	63	U	63	30	ug/Kg	☼	08/03/17 08:41	08/04/17 18:47	1
Aroclor-1221	63	U	63	29	ug/Kg	☼	08/03/17 08:41	08/04/17 18:47	1
Aroclor-1232	63	U	63	20	ug/Kg	☼	08/03/17 08:41	08/04/17 18:47	1
Aroclor-1242	63	U	63	25	ug/Kg	☼	08/03/17 08:41	08/04/17 18:47	1
Aroclor-1248	63	U	63	22	ug/Kg	☼	08/03/17 08:41	08/04/17 18:47	1
Aroclor-1254	63	U	63	18	ug/Kg	☼	08/03/17 08:41	08/04/17 18:47	1
Aroclor-1260	63	U	63	23	ug/Kg	☼	08/03/17 08:41	08/04/17 18:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	66		14 - 128	08/03/17 08:41	08/04/17 18:47	1
DCB Decachlorobiphenyl	103		10 - 132	08/03/17 08:41	08/04/17 18:47	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-073117-SK-008

Lab Sample ID: 240-83124-8

Date Collected: 07/31/17 17:10

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 78.4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	78.4		0.1	0.1	%			08/03/17 08:27	1
Percent Moisture	21.6		0.1	0.1	%			08/03/17 08:27	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-009

Lab Sample ID: 240-83124-9

Date Collected: 08/01/17 09:45

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 79.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1600	U	1600	160	ug/Kg	☼	08/03/17 10:29	08/04/17 07:59	1
Benzene	410	U	410	39	ug/Kg	☼	08/03/17 10:29	08/04/17 07:59	1
Dichlorobromomethane	410	U	410	30	ug/Kg	☼	08/03/17 10:29	08/04/17 07:59	1
Bromoform	410	U	410	38	ug/Kg	☼	08/03/17 10:29	08/04/17 07:59	1
Bromomethane	410	U	410	46	ug/Kg	☼	08/03/17 10:29	08/04/17 07:59	1
2-Butanone (MEK)	1600	U	1600	82	ug/Kg	☼	08/03/17 10:29	08/04/17 07:59	1
Carbon disulfide	410	U	410	30	ug/Kg	☼	08/03/17 10:29	08/04/17 07:59	1
Carbon tetrachloride	410	U	410	44	ug/Kg	☼	08/03/17 10:29	08/04/17 07:59	1
Chlorobenzene	410	U	410	49	ug/Kg	☼	08/03/17 10:29	08/04/17 07:59	1
Chloroethane	410	U	410	46	ug/Kg	☼	08/03/17 10:29	08/04/17 07:59	1
Chloroform	410	U	410	39	ug/Kg	☼	08/03/17 10:29	08/04/17 07:59	1
Chloromethane	410	U	410	30	ug/Kg	☼	08/03/17 10:29	08/04/17 07:59	1
1,1-Dichloroethane	410	U	410	51	ug/Kg	☼	08/03/17 10:29	08/04/17 07:59	1
1,2-Dichloroethane	410	U	410	49	ug/Kg	☼	08/03/17 10:29	08/04/17 07:59	1
1,1-Dichloroethene	410	U	410	59	ug/Kg	☼	08/03/17 10:29	08/04/17 07:59	1
1,2-Dichloropropane	410	U	410	49	ug/Kg	☼	08/03/17 10:29	08/04/17 07:59	1
cis-1,3-Dichloropropene	410	U	410	38	ug/Kg	☼	08/03/17 10:29	08/04/17 07:59	1
trans-1,3-Dichloropropene	410	U	410	25	ug/Kg	☼	08/03/17 10:29	08/04/17 07:59	1
Ethylbenzene	410	U	410	57	ug/Kg	☼	08/03/17 10:29	08/04/17 07:59	1
2-Hexanone	1600	U	1600	140	ug/Kg	☼	08/03/17 10:29	08/04/17 07:59	1
Methylene Chloride	410	U	410	110	ug/Kg	☼	08/03/17 10:29	08/04/17 07:59	1
4-Methyl-2-pentanone (MIBK)	1600	U	1600	66	ug/Kg	☼	08/03/17 10:29	08/04/17 07:59	1
Styrene	410	U	410	16	ug/Kg	☼	08/03/17 10:29	08/04/17 07:59	1
1,1,2,2-Tetrachloroethane	410	U	410	39	ug/Kg	☼	08/03/17 10:29	08/04/17 07:59	1
Tetrachloroethene	410	U	410	34	ug/Kg	☼	08/03/17 10:29	08/04/17 07:59	1
Toluene	410	U	410	39	ug/Kg	☼	08/03/17 10:29	08/04/17 07:59	1
Trichloroethene	410	U	410	61	ug/Kg	☼	08/03/17 10:29	08/04/17 07:59	1
Vinyl chloride	410	U	410	28	ug/Kg	☼	08/03/17 10:29	08/04/17 07:59	1
Xylenes, Total	820	U	820	46	ug/Kg	☼	08/03/17 10:29	08/04/17 07:59	1
1,1,1-Trichloroethane	410	U	410	46	ug/Kg	☼	08/03/17 10:29	08/04/17 07:59	1
1,1,2-Trichloroethane	410	U	410	38	ug/Kg	☼	08/03/17 10:29	08/04/17 07:59	1
Cyclohexane	820	U	820	49	ug/Kg	☼	08/03/17 10:29	08/04/17 07:59	1
1,2-Dibromo-3-Chloropropane	820	U	820	79	ug/Kg	☼	08/03/17 10:29	08/04/17 07:59	1
Ethylene Dibromide	410	U	410	38	ug/Kg	☼	08/03/17 10:29	08/04/17 07:59	1
Dichlorodifluoromethane	410	U	410	36	ug/Kg	☼	08/03/17 10:29	08/04/17 07:59	1
cis-1,2-Dichloroethene	410	U	410	57	ug/Kg	☼	08/03/17 10:29	08/04/17 07:59	1
trans-1,2-Dichloroethene	410	U	410	57	ug/Kg	☼	08/03/17 10:29	08/04/17 07:59	1
Isopropylbenzene	410	U	410	56	ug/Kg	☼	08/03/17 10:29	08/04/17 07:59	1
Methyl acetate	2100	U	2100	120	ug/Kg	☼	08/03/17 10:29	08/04/17 07:59	1
Methyl tert-butyl ether	410	U	410	43	ug/Kg	☼	08/03/17 10:29	08/04/17 07:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	410	U	410	38	ug/Kg	☼	08/03/17 10:29	08/04/17 07:59	1
1,2,4-Trichlorobenzene	410	U	410	43	ug/Kg	☼	08/03/17 10:29	08/04/17 07:59	1
1,2-Dichlorobenzene	410	U	410	30	ug/Kg	☼	08/03/17 10:29	08/04/17 07:59	1
1,3-Dichlorobenzene	410	U	410	62	ug/Kg	☼	08/03/17 10:29	08/04/17 07:59	1
1,4-Dichlorobenzene	410	U	410	44	ug/Kg	☼	08/03/17 10:29	08/04/17 07:59	1
Trichlorofluoromethane	410	U	410	56	ug/Kg	☼	08/03/17 10:29	08/04/17 07:59	1
Chlorodibromomethane	410	U	410	56	ug/Kg	☼	08/03/17 10:29	08/04/17 07:59	1
Methylcyclohexane	820	U	820	61	ug/Kg	☼	08/03/17 10:29	08/04/17 07:59	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-009

Date Collected: 08/01/17 09:45

Date Received: 08/02/17 09:30

Lab Sample ID: 240-83124-9

Matrix: Solid

Percent Solids: 79.4

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	127		64 - 144	08/03/17 10:29	08/04/17 07:59	1
4-Bromofluorobenzene (Surr)	126		58 - 142	08/03/17 10:29	08/04/17 07:59	1
Toluene-d8 (Surr)	120		61 - 137	08/03/17 10:29	08/04/17 07:59	1
Dibromofluoromethane (Surr)	112		31 - 155	08/03/17 10:29	08/04/17 07:59	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-009

Lab Sample ID: 240-83124-9

Date Collected: 08/01/17 09:45

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 79.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	65	U	65	31	ug/Kg	☼	08/03/17 08:41	08/04/17 19:07	1
Aroclor-1221	65	U	65	30	ug/Kg	☼	08/03/17 08:41	08/04/17 19:07	1
Aroclor-1232	65	U	65	21	ug/Kg	☼	08/03/17 08:41	08/04/17 19:07	1
Aroclor-1242	65	U	65	26	ug/Kg	☼	08/03/17 08:41	08/04/17 19:07	1
Aroclor-1248	65	U	65	22	ug/Kg	☼	08/03/17 08:41	08/04/17 19:07	1
Aroclor-1254	65	U	65	18	ug/Kg	☼	08/03/17 08:41	08/04/17 19:07	1
Aroclor-1260	65	U	65	23	ug/Kg	☼	08/03/17 08:41	08/04/17 19:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	70		14 - 128	08/03/17 08:41	08/04/17 19:07	1
DCB Decachlorobiphenyl	101		10 - 132	08/03/17 08:41	08/04/17 19:07	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-009

Lab Sample ID: 240-83124-9

Date Collected: 08/01/17 09:45

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 79.4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	79.4		0.1	0.1	%			08/03/17 08:27	1
Percent Moisture	20.6		0.1	0.1	%			08/03/17 08:27	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-010

Lab Sample ID: 240-83124-10

Date Collected: 08/01/17 09:50

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 77.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1600	U	1600	160	ug/Kg	☼	08/03/17 10:29	08/04/17 08:23	1
Benzene	400	U	400	39	ug/Kg	☼	08/03/17 10:29	08/04/17 08:23	1
Dichlorobromomethane	400	U	400	29	ug/Kg	☼	08/03/17 10:29	08/04/17 08:23	1
Bromoform	400	U	400	37	ug/Kg	☼	08/03/17 10:29	08/04/17 08:23	1
Bromomethane	400	U	400	45	ug/Kg	☼	08/03/17 10:29	08/04/17 08:23	1
2-Butanone (MEK)	1600	U	1600	81	ug/Kg	☼	08/03/17 10:29	08/04/17 08:23	1
Carbon disulfide	400	U	400	29	ug/Kg	☼	08/03/17 10:29	08/04/17 08:23	1
Carbon tetrachloride	400	U	400	44	ug/Kg	☼	08/03/17 10:29	08/04/17 08:23	1
Chlorobenzene	400	U	400	49	ug/Kg	☼	08/03/17 10:29	08/04/17 08:23	1
Chloroethane	400	U	400	45	ug/Kg	☼	08/03/17 10:29	08/04/17 08:23	1
Chloroform	400	U	400	39	ug/Kg	☼	08/03/17 10:29	08/04/17 08:23	1
Chloromethane	400	U	400	29	ug/Kg	☼	08/03/17 10:29	08/04/17 08:23	1
1,1-Dichloroethane	400	U	400	50	ug/Kg	☼	08/03/17 10:29	08/04/17 08:23	1
1,2-Dichloroethane	400	U	400	49	ug/Kg	☼	08/03/17 10:29	08/04/17 08:23	1
1,1-Dichloroethene	400	U	400	58	ug/Kg	☼	08/03/17 10:29	08/04/17 08:23	1
1,2-Dichloropropane	400	U	400	49	ug/Kg	☼	08/03/17 10:29	08/04/17 08:23	1
cis-1,3-Dichloropropene	400	U	400	37	ug/Kg	☼	08/03/17 10:29	08/04/17 08:23	1
trans-1,3-Dichloropropene	400	U	400	24	ug/Kg	☼	08/03/17 10:29	08/04/17 08:23	1
Ethylbenzene	400	U	400	57	ug/Kg	☼	08/03/17 10:29	08/04/17 08:23	1
2-Hexanone	1600	U	1600	140	ug/Kg	☼	08/03/17 10:29	08/04/17 08:23	1
Methylene Chloride	400	U	400	110	ug/Kg	☼	08/03/17 10:29	08/04/17 08:23	1
4-Methyl-2-pentanone (MIBK)	1600	U	1600	65	ug/Kg	☼	08/03/17 10:29	08/04/17 08:23	1
Styrene	400	U	400	16	ug/Kg	☼	08/03/17 10:29	08/04/17 08:23	1
1,1,2,2-Tetrachloroethane	400	U	400	39	ug/Kg	☼	08/03/17 10:29	08/04/17 08:23	1
Tetrachloroethene	400	U	400	34	ug/Kg	☼	08/03/17 10:29	08/04/17 08:23	1
Toluene	400	U	400	39	ug/Kg	☼	08/03/17 10:29	08/04/17 08:23	1
Trichloroethene	400	U	400	60	ug/Kg	☼	08/03/17 10:29	08/04/17 08:23	1
Vinyl chloride	400	U	400	27	ug/Kg	☼	08/03/17 10:29	08/04/17 08:23	1
Xylenes, Total	810	U	810	45	ug/Kg	☼	08/03/17 10:29	08/04/17 08:23	1
1,1,1-Trichloroethane	400	U	400	45	ug/Kg	☼	08/03/17 10:29	08/04/17 08:23	1
1,1,2-Trichloroethane	400	U	400	37	ug/Kg	☼	08/03/17 10:29	08/04/17 08:23	1
Cyclohexane	810	U	810	49	ug/Kg	☼	08/03/17 10:29	08/04/17 08:23	1
1,2-Dibromo-3-Chloropropane	810	U	810	78	ug/Kg	☼	08/03/17 10:29	08/04/17 08:23	1
Ethylene Dibromide	400	U	400	37	ug/Kg	☼	08/03/17 10:29	08/04/17 08:23	1
Dichlorodifluoromethane	400	U	400	36	ug/Kg	☼	08/03/17 10:29	08/04/17 08:23	1
cis-1,2-Dichloroethene	400	U	400	57	ug/Kg	☼	08/03/17 10:29	08/04/17 08:23	1
trans-1,2-Dichloroethene	400	U	400	57	ug/Kg	☼	08/03/17 10:29	08/04/17 08:23	1
Isopropylbenzene	400	U	400	55	ug/Kg	☼	08/03/17 10:29	08/04/17 08:23	1
Methyl acetate	2000	U	2000	120	ug/Kg	☼	08/03/17 10:29	08/04/17 08:23	1
Methyl tert-butyl ether	400	U	400	42	ug/Kg	☼	08/03/17 10:29	08/04/17 08:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	400	U	400	37	ug/Kg	☼	08/03/17 10:29	08/04/17 08:23	1
1,2,4-Trichlorobenzene	400	U	400	42	ug/Kg	☼	08/03/17 10:29	08/04/17 08:23	1
1,2-Dichlorobenzene	400	U	400	29	ug/Kg	☼	08/03/17 10:29	08/04/17 08:23	1
1,3-Dichlorobenzene	400	U	400	61	ug/Kg	☼	08/03/17 10:29	08/04/17 08:23	1
1,4-Dichlorobenzene	400	U	400	44	ug/Kg	☼	08/03/17 10:29	08/04/17 08:23	1
Trichlorofluoromethane	400	U	400	55	ug/Kg	☼	08/03/17 10:29	08/04/17 08:23	1
Chlorodibromomethane	400	U	400	55	ug/Kg	☼	08/03/17 10:29	08/04/17 08:23	1
Methylcyclohexane	810	U	810	60	ug/Kg	☼	08/03/17 10:29	08/04/17 08:23	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-010

Lab Sample ID: 240-83124-10

Date Collected: 08/01/17 09:50

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 77.6

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	115		64 - 144	08/03/17 10:29	08/04/17 08:23	1
4-Bromofluorobenzene (Surr)	100		58 - 142	08/03/17 10:29	08/04/17 08:23	1
Toluene-d8 (Surr)	97		61 - 137	08/03/17 10:29	08/04/17 08:23	1
Dibromofluoromethane (Surr)	92		31 - 155	08/03/17 10:29	08/04/17 08:23	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-010

Lab Sample ID: 240-83124-10

Date Collected: 08/01/17 09:50

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 77.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	64	U	64	31	ug/Kg	☼	08/03/17 08:41	08/04/17 19:27	1
Aroclor-1221	64	U	64	29	ug/Kg	☼	08/03/17 08:41	08/04/17 19:27	1
Aroclor-1232	64	U	64	20	ug/Kg	☼	08/03/17 08:41	08/04/17 19:27	1
Aroclor-1242	64	U	64	26	ug/Kg	☼	08/03/17 08:41	08/04/17 19:27	1
Aroclor-1248	64	U	64	22	ug/Kg	☼	08/03/17 08:41	08/04/17 19:27	1
Aroclor-1254	64	U	64	18	ug/Kg	☼	08/03/17 08:41	08/04/17 19:27	1
Aroclor-1260	64	U	64	23	ug/Kg	☼	08/03/17 08:41	08/04/17 19:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	71		14 - 128	08/03/17 08:41	08/04/17 19:27	1
DCB Decachlorobiphenyl	96		10 - 132	08/03/17 08:41	08/04/17 19:27	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-010

Lab Sample ID: 240-83124-10

Date Collected: 08/01/17 09:50

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 77.6

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	77.6		0.1	0.1	%			08/03/17 08:27	1
Percent Moisture	22.4		0.1	0.1	%			08/03/17 08:27	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-011

Lab Sample ID: 240-83124-11

Date Collected: 08/01/17 09:55

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 77.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1500	U	1500	150	ug/Kg	☼	08/03/17 10:29	08/04/17 08:44	1
Benzene	390	U	390	37	ug/Kg	☼	08/03/17 10:29	08/04/17 08:44	1
Dichlorobromomethane	390	U	390	28	ug/Kg	☼	08/03/17 10:29	08/04/17 08:44	1
Bromoform	390	U	390	36	ug/Kg	☼	08/03/17 10:29	08/04/17 08:44	1
Bromomethane	390	U	390	43	ug/Kg	☼	08/03/17 10:29	08/04/17 08:44	1
2-Butanone (MEK)	1500	U	1500	77	ug/Kg	☼	08/03/17 10:29	08/04/17 08:44	1
Carbon disulfide	390	U	390	28	ug/Kg	☼	08/03/17 10:29	08/04/17 08:44	1
Carbon tetrachloride	390	U	390	42	ug/Kg	☼	08/03/17 10:29	08/04/17 08:44	1
Chlorobenzene	390	U	390	46	ug/Kg	☼	08/03/17 10:29	08/04/17 08:44	1
Chloroethane	390	U	390	43	ug/Kg	☼	08/03/17 10:29	08/04/17 08:44	1
Chloroform	390	U	390	37	ug/Kg	☼	08/03/17 10:29	08/04/17 08:44	1
Chloromethane	390	U	390	28	ug/Kg	☼	08/03/17 10:29	08/04/17 08:44	1
1,1-Dichloroethane	390	U	390	48	ug/Kg	☼	08/03/17 10:29	08/04/17 08:44	1
1,2-Dichloroethane	390	U	390	46	ug/Kg	☼	08/03/17 10:29	08/04/17 08:44	1
1,1-Dichloroethene	390	U	390	56	ug/Kg	☼	08/03/17 10:29	08/04/17 08:44	1
1,2-Dichloropropane	390	U	390	46	ug/Kg	☼	08/03/17 10:29	08/04/17 08:44	1
cis-1,3-Dichloropropene	390	U	390	36	ug/Kg	☼	08/03/17 10:29	08/04/17 08:44	1
trans-1,3-Dichloropropene	390	U	390	23	ug/Kg	☼	08/03/17 10:29	08/04/17 08:44	1
Ethylbenzene	390	U	390	54	ug/Kg	☼	08/03/17 10:29	08/04/17 08:44	1
2-Hexanone	1500	U	1500	130	ug/Kg	☼	08/03/17 10:29	08/04/17 08:44	1
Methylene Chloride	390	U	390	100	ug/Kg	☼	08/03/17 10:29	08/04/17 08:44	1
4-Methyl-2-pentanone (MIBK)	1500	U	1500	62	ug/Kg	☼	08/03/17 10:29	08/04/17 08:44	1
Styrene	390	U	390	15	ug/Kg	☼	08/03/17 10:29	08/04/17 08:44	1
1,1,2,2-Tetrachloroethane	390	U	390	37	ug/Kg	☼	08/03/17 10:29	08/04/17 08:44	1
Tetrachloroethene	390	U	390	32	ug/Kg	☼	08/03/17 10:29	08/04/17 08:44	1
Toluene	390	U	390	37	ug/Kg	☼	08/03/17 10:29	08/04/17 08:44	1
Trichloroethene	390	U	390	57	ug/Kg	☼	08/03/17 10:29	08/04/17 08:44	1
Vinyl chloride	390	U	390	26	ug/Kg	☼	08/03/17 10:29	08/04/17 08:44	1
Xylenes, Total	770	U	770	43	ug/Kg	☼	08/03/17 10:29	08/04/17 08:44	1
1,1,1-Trichloroethane	390	U	390	43	ug/Kg	☼	08/03/17 10:29	08/04/17 08:44	1
1,1,2-Trichloroethane	390	U	390	36	ug/Kg	☼	08/03/17 10:29	08/04/17 08:44	1
Cyclohexane	770	U	770	46	ug/Kg	☼	08/03/17 10:29	08/04/17 08:44	1
1,2-Dibromo-3-Chloropropane	770	U	770	74	ug/Kg	☼	08/03/17 10:29	08/04/17 08:44	1
Ethylene Dibromide	390	U	390	36	ug/Kg	☼	08/03/17 10:29	08/04/17 08:44	1
Dichlorodifluoromethane	390	U	390	34	ug/Kg	☼	08/03/17 10:29	08/04/17 08:44	1
cis-1,2-Dichloroethene	390	U	390	54	ug/Kg	☼	08/03/17 10:29	08/04/17 08:44	1
trans-1,2-Dichloroethene	390	U	390	54	ug/Kg	☼	08/03/17 10:29	08/04/17 08:44	1
Isopropylbenzene	390	U	390	53	ug/Kg	☼	08/03/17 10:29	08/04/17 08:44	1
Methyl acetate	1900	U	1900	120	ug/Kg	☼	08/03/17 10:29	08/04/17 08:44	1
Methyl tert-butyl ether	390	U	390	40	ug/Kg	☼	08/03/17 10:29	08/04/17 08:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	390	U	390	36	ug/Kg	☼	08/03/17 10:29	08/04/17 08:44	1
1,2,4-Trichlorobenzene	390	U	390	40	ug/Kg	☼	08/03/17 10:29	08/04/17 08:44	1
1,2-Dichlorobenzene	390	U	390	28	ug/Kg	☼	08/03/17 10:29	08/04/17 08:44	1
1,3-Dichlorobenzene	390	U	390	59	ug/Kg	☼	08/03/17 10:29	08/04/17 08:44	1
1,4-Dichlorobenzene	390	U	390	42	ug/Kg	☼	08/03/17 10:29	08/04/17 08:44	1
Trichlorofluoromethane	390	U	390	53	ug/Kg	☼	08/03/17 10:29	08/04/17 08:44	1
Chlorodibromomethane	390	U	390	53	ug/Kg	☼	08/03/17 10:29	08/04/17 08:44	1
Methylcyclohexane	770	U	770	57	ug/Kg	☼	08/03/17 10:29	08/04/17 08:44	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-011

Lab Sample ID: 240-83124-11

Date Collected: 08/01/17 09:55

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 77.8

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	121		64 - 144	08/03/17 10:29	08/04/17 08:44	1
4-Bromofluorobenzene (Surr)	117		58 - 142	08/03/17 10:29	08/04/17 08:44	1
Toluene-d8 (Surr)	119		61 - 137	08/03/17 10:29	08/04/17 08:44	1
Dibromofluoromethane (Surr)	111		31 - 155	08/03/17 10:29	08/04/17 08:44	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-011

Lab Sample ID: 240-83124-11

Date Collected: 08/01/17 09:55

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 77.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	64	U	64	31	ug/Kg	☼	08/03/17 08:41	08/04/17 19:46	1
Aroclor-1221	64	U	64	30	ug/Kg	☼	08/03/17 08:41	08/04/17 19:46	1
Aroclor-1232	64	U	64	21	ug/Kg	☼	08/03/17 08:41	08/04/17 19:46	1
Aroclor-1242	64	U	64	26	ug/Kg	☼	08/03/17 08:41	08/04/17 19:46	1
Aroclor-1248	64	U	64	22	ug/Kg	☼	08/03/17 08:41	08/04/17 19:46	1
Aroclor-1254	64	U	64	18	ug/Kg	☼	08/03/17 08:41	08/04/17 19:46	1
Aroclor-1260	64	U	64	23	ug/Kg	☼	08/03/17 08:41	08/04/17 19:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	49		14 - 128	08/03/17 08:41	08/04/17 19:46	1
DCB Decachlorobiphenyl	71		10 - 132	08/03/17 08:41	08/04/17 19:46	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-011

Lab Sample ID: 240-83124-11

Date Collected: 08/01/17 09:55

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 77.8

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	77.8		0.1	0.1	%			08/03/17 08:32	1
Percent Moisture	22.2		0.1	0.1	%			08/03/17 08:32	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-012

Lab Sample ID: 240-83124-12

Date Collected: 08/01/17 10:55

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 81.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1400	U	1400	140	ug/Kg	☼	08/03/17 10:29	08/04/17 09:35	1
Benzene	350	U	350	34	ug/Kg	☼	08/03/17 10:29	08/04/17 09:35	1
Dichlorobromomethane	350	U	350	25	ug/Kg	☼	08/03/17 10:29	08/04/17 09:35	1
Bromoform	350	U	350	32	ug/Kg	☼	08/03/17 10:29	08/04/17 09:35	1
Bromomethane	350	U	350	39	ug/Kg	☼	08/03/17 10:29	08/04/17 09:35	1
2-Butanone (MEK)	1400	U	1400	70	ug/Kg	☼	08/03/17 10:29	08/04/17 09:35	1
Carbon disulfide	350	U	350	25	ug/Kg	☼	08/03/17 10:29	08/04/17 09:35	1
Carbon tetrachloride	350	U	350	38	ug/Kg	☼	08/03/17 10:29	08/04/17 09:35	1
Chlorobenzene	350	U	350	42	ug/Kg	☼	08/03/17 10:29	08/04/17 09:35	1
Chloroethane	350	U	350	39	ug/Kg	☼	08/03/17 10:29	08/04/17 09:35	1
Chloroform	350	U	350	34	ug/Kg	☼	08/03/17 10:29	08/04/17 09:35	1
Chloromethane	350	U	350	25	ug/Kg	☼	08/03/17 10:29	08/04/17 09:35	1
1,1-Dichloroethane	350	U	350	43	ug/Kg	☼	08/03/17 10:29	08/04/17 09:35	1
1,2-Dichloroethane	350	U	350	42	ug/Kg	☼	08/03/17 10:29	08/04/17 09:35	1
1,1-Dichloroethene	350	U	350	50	ug/Kg	☼	08/03/17 10:29	08/04/17 09:35	1
1,2-Dichloropropane	350	U	350	42	ug/Kg	☼	08/03/17 10:29	08/04/17 09:35	1
cis-1,3-Dichloropropene	350	U	350	32	ug/Kg	☼	08/03/17 10:29	08/04/17 09:35	1
trans-1,3-Dichloropropene	350	U	350	21	ug/Kg	☼	08/03/17 10:29	08/04/17 09:35	1
Ethylbenzene	350	U	350	49	ug/Kg	☼	08/03/17 10:29	08/04/17 09:35	1
2-Hexanone	1400	U	1400	120	ug/Kg	☼	08/03/17 10:29	08/04/17 09:35	1
Methylene Chloride	350	U	350	91	ug/Kg	☼	08/03/17 10:29	08/04/17 09:35	1
4-Methyl-2-pentanone (MIBK)	1400	U	1400	56	ug/Kg	☼	08/03/17 10:29	08/04/17 09:35	1
Styrene	350	U	350	14	ug/Kg	☼	08/03/17 10:29	08/04/17 09:35	1
1,1,2,2-Tetrachloroethane	350	U	350	34	ug/Kg	☼	08/03/17 10:29	08/04/17 09:35	1
Tetrachloroethene	350	U	350	29	ug/Kg	☼	08/03/17 10:29	08/04/17 09:35	1
Toluene	350	U	350	34	ug/Kg	☼	08/03/17 10:29	08/04/17 09:35	1
Trichloroethene	350	U	350	52	ug/Kg	☼	08/03/17 10:29	08/04/17 09:35	1
Vinyl chloride	350	U	350	24	ug/Kg	☼	08/03/17 10:29	08/04/17 09:35	1
Xylenes, Total	700	U	700	39	ug/Kg	☼	08/03/17 10:29	08/04/17 09:35	1
1,1,1-Trichloroethane	350	U	350	39	ug/Kg	☼	08/03/17 10:29	08/04/17 09:35	1
1,1,2-Trichloroethane	350	U	350	32	ug/Kg	☼	08/03/17 10:29	08/04/17 09:35	1
Cyclohexane	700	U	700	42	ug/Kg	☼	08/03/17 10:29	08/04/17 09:35	1
1,2-Dibromo-3-Chloropropane	700	U	700	67	ug/Kg	☼	08/03/17 10:29	08/04/17 09:35	1
Ethylene Dibromide	350	U	350	32	ug/Kg	☼	08/03/17 10:29	08/04/17 09:35	1
Dichlorodifluoromethane	350	U	350	31	ug/Kg	☼	08/03/17 10:29	08/04/17 09:35	1
cis-1,2-Dichloroethene	350	U	350	49	ug/Kg	☼	08/03/17 10:29	08/04/17 09:35	1
trans-1,2-Dichloroethene	350	U	350	49	ug/Kg	☼	08/03/17 10:29	08/04/17 09:35	1
Isopropylbenzene	350	U	350	48	ug/Kg	☼	08/03/17 10:29	08/04/17 09:35	1
Methyl acetate	1700	U	1700	100	ug/Kg	☼	08/03/17 10:29	08/04/17 09:35	1
Methyl tert-butyl ether	350	U	350	36	ug/Kg	☼	08/03/17 10:29	08/04/17 09:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	350	U	350	32	ug/Kg	☼	08/03/17 10:29	08/04/17 09:35	1
1,2,4-Trichlorobenzene	350	U	350	36	ug/Kg	☼	08/03/17 10:29	08/04/17 09:35	1
1,2-Dichlorobenzene	350	U	350	25	ug/Kg	☼	08/03/17 10:29	08/04/17 09:35	1
1,3-Dichlorobenzene	350	U	350	53	ug/Kg	☼	08/03/17 10:29	08/04/17 09:35	1
1,4-Dichlorobenzene	350	U	350	38	ug/Kg	☼	08/03/17 10:29	08/04/17 09:35	1
Trichlorofluoromethane	350	U	350	48	ug/Kg	☼	08/03/17 10:29	08/04/17 09:35	1
Chlorodibromomethane	350	U	350	48	ug/Kg	☼	08/03/17 10:29	08/04/17 09:35	1
Methylcyclohexane	700	U	700	52	ug/Kg	☼	08/03/17 10:29	08/04/17 09:35	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-012

Lab Sample ID: 240-83124-12

Date Collected: 08/01/17 10:55

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 81.2

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	148	X	64 - 144	08/03/17 10:29	08/04/17 09:35	1
4-Bromofluorobenzene (Surr)	136		58 - 142	08/03/17 10:29	08/04/17 09:35	1
Toluene-d8 (Surr)	135		61 - 137	08/03/17 10:29	08/04/17 09:35	1
Dibromofluoromethane (Surr)	130		31 - 155	08/03/17 10:29	08/04/17 09:35	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-012

Lab Sample ID: 240-83124-12

Date Collected: 08/01/17 10:55

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 81.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	64	U	64	31	ug/Kg	☼	08/03/17 08:41	08/04/17 20:06	1
Aroclor-1221	64	U	64	29	ug/Kg	☼	08/03/17 08:41	08/04/17 20:06	1
Aroclor-1232	64	U	64	21	ug/Kg	☼	08/03/17 08:41	08/04/17 20:06	1
Aroclor-1242	64	U	64	26	ug/Kg	☼	08/03/17 08:41	08/04/17 20:06	1
Aroclor-1248	64	U	64	22	ug/Kg	☼	08/03/17 08:41	08/04/17 20:06	1
Aroclor-1254	64	U	64	18	ug/Kg	☼	08/03/17 08:41	08/04/17 20:06	1
Aroclor-1260	64	U	64	23	ug/Kg	☼	08/03/17 08:41	08/04/17 20:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	71		14 - 128	08/03/17 08:41	08/04/17 20:06	1
DCB Decachlorobiphenyl	81		10 - 132	08/03/17 08:41	08/04/17 20:06	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-012

Lab Sample ID: 240-83124-12

Date Collected: 08/01/17 10:55

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 81.2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	81.2		0.1	0.1	%			08/03/17 08:32	1
Percent Moisture	18.8		0.1	0.1	%			08/03/17 08:32	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-013

Lab Sample ID: 240-83124-13

Date Collected: 08/01/17 11:00

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 79.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1400	U	1400	130	ug/Kg	☼	08/03/17 10:29	08/04/17 09:56	1
Benzene	340	U	340	33	ug/Kg	☼	08/03/17 10:29	08/04/17 09:56	1
Dichlorobromomethane	340	U	340	24	ug/Kg	☼	08/03/17 10:29	08/04/17 09:56	1
Bromoform	340	U	340	31	ug/Kg	☼	08/03/17 10:29	08/04/17 09:56	1
Bromomethane	340	U	340	38	ug/Kg	☼	08/03/17 10:29	08/04/17 09:56	1
2-Butanone (MEK)	1400	U	1400	68	ug/Kg	☼	08/03/17 10:29	08/04/17 09:56	1
Carbon disulfide	340	U	340	24	ug/Kg	☼	08/03/17 10:29	08/04/17 09:56	1
Carbon tetrachloride	340	U	340	37	ug/Kg	☼	08/03/17 10:29	08/04/17 09:56	1
Chlorobenzene	340	U	340	41	ug/Kg	☼	08/03/17 10:29	08/04/17 09:56	1
Chloroethane	340	U	340	38	ug/Kg	☼	08/03/17 10:29	08/04/17 09:56	1
Chloroform	340	U	340	33	ug/Kg	☼	08/03/17 10:29	08/04/17 09:56	1
Chloromethane	340	U	340	24	ug/Kg	☼	08/03/17 10:29	08/04/17 09:56	1
1,1-Dichloroethane	340	U	340	42	ug/Kg	☼	08/03/17 10:29	08/04/17 09:56	1
1,2-Dichloroethane	340	U	340	41	ug/Kg	☼	08/03/17 10:29	08/04/17 09:56	1
1,1-Dichloroethene	340	U	340	49	ug/Kg	☼	08/03/17 10:29	08/04/17 09:56	1
1,2-Dichloropropane	340	U	340	41	ug/Kg	☼	08/03/17 10:29	08/04/17 09:56	1
cis-1,3-Dichloropropene	340	U	340	31	ug/Kg	☼	08/03/17 10:29	08/04/17 09:56	1
trans-1,3-Dichloropropene	340	U	340	20	ug/Kg	☼	08/03/17 10:29	08/04/17 09:56	1
Ethylbenzene	340	U	340	48	ug/Kg	☼	08/03/17 10:29	08/04/17 09:56	1
2-Hexanone	1400	U	1400	120	ug/Kg	☼	08/03/17 10:29	08/04/17 09:56	1
Methylene Chloride	340	U	340	88	ug/Kg	☼	08/03/17 10:29	08/04/17 09:56	1
4-Methyl-2-pentanone (MIBK)	1400	U	1400	54	ug/Kg	☼	08/03/17 10:29	08/04/17 09:56	1
Styrene	340	U	340	14	ug/Kg	☼	08/03/17 10:29	08/04/17 09:56	1
1,1,2,2-Tetrachloroethane	340	U	340	33	ug/Kg	☼	08/03/17 10:29	08/04/17 09:56	1
Tetrachloroethene	340	U	340	29	ug/Kg	☼	08/03/17 10:29	08/04/17 09:56	1
Toluene	340	U	340	33	ug/Kg	☼	08/03/17 10:29	08/04/17 09:56	1
Trichloroethene	340	U	340	50	ug/Kg	☼	08/03/17 10:29	08/04/17 09:56	1
Vinyl chloride	340	U	340	23	ug/Kg	☼	08/03/17 10:29	08/04/17 09:56	1
Xylenes, Total	680	U	680	38	ug/Kg	☼	08/03/17 10:29	08/04/17 09:56	1
1,1,1-Trichloroethane	340	U	340	38	ug/Kg	☼	08/03/17 10:29	08/04/17 09:56	1
1,1,2-Trichloroethane	340	U	340	31	ug/Kg	☼	08/03/17 10:29	08/04/17 09:56	1
Cyclohexane	680	U	680	41	ug/Kg	☼	08/03/17 10:29	08/04/17 09:56	1
1,2-Dibromo-3-Chloropropane	680	U	680	65	ug/Kg	☼	08/03/17 10:29	08/04/17 09:56	1
Ethylene Dibromide	340	U	340	31	ug/Kg	☼	08/03/17 10:29	08/04/17 09:56	1
Dichlorodifluoromethane	340	U	340	30	ug/Kg	☼	08/03/17 10:29	08/04/17 09:56	1
cis-1,2-Dichloroethene	340	U	340	48	ug/Kg	☼	08/03/17 10:29	08/04/17 09:56	1
trans-1,2-Dichloroethene	340	U	340	48	ug/Kg	☼	08/03/17 10:29	08/04/17 09:56	1
Isopropylbenzene	340	U	340	46	ug/Kg	☼	08/03/17 10:29	08/04/17 09:56	1
Methyl acetate	1700	U	1700	100	ug/Kg	☼	08/03/17 10:29	08/04/17 09:56	1
Methyl tert-butyl ether	340	U	340	35	ug/Kg	☼	08/03/17 10:29	08/04/17 09:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	340	U	340	31	ug/Kg	☼	08/03/17 10:29	08/04/17 09:56	1
1,2,4-Trichlorobenzene	340	U	340	35	ug/Kg	☼	08/03/17 10:29	08/04/17 09:56	1
1,2-Dichlorobenzene	340	U	340	24	ug/Kg	☼	08/03/17 10:29	08/04/17 09:56	1
1,3-Dichlorobenzene	340	U	340	52	ug/Kg	☼	08/03/17 10:29	08/04/17 09:56	1
1,4-Dichlorobenzene	340	U	340	37	ug/Kg	☼	08/03/17 10:29	08/04/17 09:56	1
Trichlorofluoromethane	340	U	340	46	ug/Kg	☼	08/03/17 10:29	08/04/17 09:56	1
Chlorodibromomethane	340	U	340	46	ug/Kg	☼	08/03/17 10:29	08/04/17 09:56	1
Methylcyclohexane	680	U	680	50	ug/Kg	☼	08/03/17 10:29	08/04/17 09:56	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-013

Lab Sample ID: 240-83124-13

Date Collected: 08/01/17 11:00

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 79.0

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	118		64 - 144	08/03/17 10:29	08/04/17 09:56	1
4-Bromofluorobenzene (Surr)	112		58 - 142	08/03/17 10:29	08/04/17 09:56	1
Toluene-d8 (Surr)	109		61 - 137	08/03/17 10:29	08/04/17 09:56	1
Dibromofluoromethane (Surr)	100		31 - 155	08/03/17 10:29	08/04/17 09:56	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-013

Lab Sample ID: 240-83124-13

Date Collected: 08/01/17 11:00

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 79.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	66	U	66	32	ug/Kg	☼	08/03/17 08:41	08/04/17 20:25	1
Aroclor-1221	66	U	66	31	ug/Kg	☼	08/03/17 08:41	08/04/17 20:25	1
Aroclor-1232	66	U	66	21	ug/Kg	☼	08/03/17 08:41	08/04/17 20:25	1
Aroclor-1242	66	U	66	27	ug/Kg	☼	08/03/17 08:41	08/04/17 20:25	1
Aroclor-1248	66	U	66	23	ug/Kg	☼	08/03/17 08:41	08/04/17 20:25	1
Aroclor-1254	66	U	66	19	ug/Kg	☼	08/03/17 08:41	08/04/17 20:25	1
Aroclor-1260	66	U	66	24	ug/Kg	☼	08/03/17 08:41	08/04/17 20:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	74		14 - 128	08/03/17 08:41	08/04/17 20:25	1
DCB Decachlorobiphenyl	100		10 - 132	08/03/17 08:41	08/04/17 20:25	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-013

Lab Sample ID: 240-83124-13

Date Collected: 08/01/17 11:00

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 79.0

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	79.0		0.1	0.1	%			08/03/17 08:32	1
Percent Moisture	21.0		0.1	0.1	%			08/03/17 08:32	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-014

Lab Sample ID: 240-83124-14

Date Collected: 08/01/17 12:00

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 76.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1500	U	1500	140	ug/Kg	☼	08/03/17 10:29	08/04/17 10:18	1
Benzene	360	U	360	35	ug/Kg	☼	08/03/17 10:29	08/04/17 10:18	1
Dichlorobromomethane	360	U	360	26	ug/Kg	☼	08/03/17 10:29	08/04/17 10:18	1
Bromoform	360	U	360	33	ug/Kg	☼	08/03/17 10:29	08/04/17 10:18	1
Bromomethane	360	U	360	41	ug/Kg	☼	08/03/17 10:29	08/04/17 10:18	1
2-Butanone (MEK)	1500	U	1500	73	ug/Kg	☼	08/03/17 10:29	08/04/17 10:18	1
Carbon disulfide	360	U	360	26	ug/Kg	☼	08/03/17 10:29	08/04/17 10:18	1
Carbon tetrachloride	360	U	360	39	ug/Kg	☼	08/03/17 10:29	08/04/17 10:18	1
Chlorobenzene	360	U	360	44	ug/Kg	☼	08/03/17 10:29	08/04/17 10:18	1
Chloroethane	360	U	360	41	ug/Kg	☼	08/03/17 10:29	08/04/17 10:18	1
Chloroform	360	U	360	35	ug/Kg	☼	08/03/17 10:29	08/04/17 10:18	1
Chloromethane	360	U	360	26	ug/Kg	☼	08/03/17 10:29	08/04/17 10:18	1
1,1-Dichloroethane	360	U	360	45	ug/Kg	☼	08/03/17 10:29	08/04/17 10:18	1
1,2-Dichloroethane	360	U	360	44	ug/Kg	☼	08/03/17 10:29	08/04/17 10:18	1
1,1-Dichloroethene	360	U	360	52	ug/Kg	☼	08/03/17 10:29	08/04/17 10:18	1
1,2-Dichloropropane	360	U	360	44	ug/Kg	☼	08/03/17 10:29	08/04/17 10:18	1
cis-1,3-Dichloropropene	360	U	360	33	ug/Kg	☼	08/03/17 10:29	08/04/17 10:18	1
trans-1,3-Dichloropropene	360	U	360	22	ug/Kg	☼	08/03/17 10:29	08/04/17 10:18	1
Ethylbenzene	360	U	360	51	ug/Kg	☼	08/03/17 10:29	08/04/17 10:18	1
2-Hexanone	1500	U	1500	130	ug/Kg	☼	08/03/17 10:29	08/04/17 10:18	1
Methylene Chloride	360	U	360	95	ug/Kg	☼	08/03/17 10:29	08/04/17 10:18	1
4-Methyl-2-pentanone (MIBK)	1500	U	1500	58	ug/Kg	☼	08/03/17 10:29	08/04/17 10:18	1
Styrene	360	U	360	15	ug/Kg	☼	08/03/17 10:29	08/04/17 10:18	1
1,1,2,2-Tetrachloroethane	360	U	360	35	ug/Kg	☼	08/03/17 10:29	08/04/17 10:18	1
Tetrachloroethene	360	U	360	31	ug/Kg	☼	08/03/17 10:29	08/04/17 10:18	1
Toluene	360	U	360	35	ug/Kg	☼	08/03/17 10:29	08/04/17 10:18	1
Trichloroethene	360	U	360	54	ug/Kg	☼	08/03/17 10:29	08/04/17 10:18	1
Vinyl chloride	360	U	360	25	ug/Kg	☼	08/03/17 10:29	08/04/17 10:18	1
Xylenes, Total	730	U	730	41	ug/Kg	☼	08/03/17 10:29	08/04/17 10:18	1
1,1,1-Trichloroethane	360	U	360	41	ug/Kg	☼	08/03/17 10:29	08/04/17 10:18	1
1,1,2-Trichloroethane	360	U	360	33	ug/Kg	☼	08/03/17 10:29	08/04/17 10:18	1
Cyclohexane	730	U	730	44	ug/Kg	☼	08/03/17 10:29	08/04/17 10:18	1
1,2-Dibromo-3-Chloropropane	730	U	730	70	ug/Kg	☼	08/03/17 10:29	08/04/17 10:18	1
Ethylene Dibromide	360	U	360	33	ug/Kg	☼	08/03/17 10:29	08/04/17 10:18	1
Dichlorodifluoromethane	360	U	360	32	ug/Kg	☼	08/03/17 10:29	08/04/17 10:18	1
cis-1,2-Dichloroethene	250	J	360	51	ug/Kg	☼	08/03/17 10:29	08/04/17 10:18	1
trans-1,2-Dichloroethene	360	U	360	51	ug/Kg	☼	08/03/17 10:29	08/04/17 10:18	1
Isopropylbenzene	360	U	360	49	ug/Kg	☼	08/03/17 10:29	08/04/17 10:18	1
Methyl acetate	1800	U	1800	110	ug/Kg	☼	08/03/17 10:29	08/04/17 10:18	1
Methyl tert-butyl ether	360	U	360	38	ug/Kg	☼	08/03/17 10:29	08/04/17 10:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	360	U	360	33	ug/Kg	☼	08/03/17 10:29	08/04/17 10:18	1
1,2,4-Trichlorobenzene	360	U	360	38	ug/Kg	☼	08/03/17 10:29	08/04/17 10:18	1
1,2-Dichlorobenzene	360	U	360	26	ug/Kg	☼	08/03/17 10:29	08/04/17 10:18	1
1,3-Dichlorobenzene	360	U	360	55	ug/Kg	☼	08/03/17 10:29	08/04/17 10:18	1
1,4-Dichlorobenzene	360	U	360	39	ug/Kg	☼	08/03/17 10:29	08/04/17 10:18	1
Trichlorofluoromethane	360	U	360	49	ug/Kg	☼	08/03/17 10:29	08/04/17 10:18	1
Chlorodibromomethane	360	U	360	49	ug/Kg	☼	08/03/17 10:29	08/04/17 10:18	1
Methylcyclohexane	730	U	730	54	ug/Kg	☼	08/03/17 10:29	08/04/17 10:18	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-014

Lab Sample ID: 240-83124-14

Date Collected: 08/01/17 12:00

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 76.2

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	123		64 - 144	08/03/17 10:29	08/04/17 10:18	1
4-Bromofluorobenzene (Surr)	118		58 - 142	08/03/17 10:29	08/04/17 10:18	1
Toluene-d8 (Surr)	115		61 - 137	08/03/17 10:29	08/04/17 10:18	1
Dibromofluoromethane (Surr)	105		31 - 155	08/03/17 10:29	08/04/17 10:18	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-014

Lab Sample ID: 240-83124-14

Date Collected: 08/01/17 12:00

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 76.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	63	U	63	30	ug/Kg	☼	08/03/17 08:41	08/04/17 20:44	1
Aroclor-1221	63	U	63	29	ug/Kg	☼	08/03/17 08:41	08/04/17 20:44	1
Aroclor-1232	63	U	63	20	ug/Kg	☼	08/03/17 08:41	08/04/17 20:44	1
Aroclor-1242	63	U	63	25	ug/Kg	☼	08/03/17 08:41	08/04/17 20:44	1
Aroclor-1248	63	U	63	21	ug/Kg	☼	08/03/17 08:41	08/04/17 20:44	1
Aroclor-1254	63	U	63	18	ug/Kg	☼	08/03/17 08:41	08/04/17 20:44	1
Aroclor-1260	63	U	63	23	ug/Kg	☼	08/03/17 08:41	08/04/17 20:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	74		14 - 128	08/03/17 08:41	08/04/17 20:44	1
DCB Decachlorobiphenyl	102		10 - 132	08/03/17 08:41	08/04/17 20:44	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-014

Lab Sample ID: 240-83124-14

Date Collected: 08/01/17 12:00

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 76.2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	76.2		0.1	0.1	%			08/03/17 08:32	1
Percent Moisture	23.8		0.1	0.1	%			08/03/17 08:32	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-015

Lab Sample ID: 240-83124-15

Date Collected: 08/01/17 12:05

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 79.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1400	U	1400	140	ug/Kg	☼	08/03/17 10:29	08/04/17 10:39	1
Benzene	360	U	360	35	ug/Kg	☼	08/03/17 10:29	08/04/17 10:39	1
Dichlorobromomethane	360	U	360	26	ug/Kg	☼	08/03/17 10:29	08/04/17 10:39	1
Bromoform	360	U	360	33	ug/Kg	☼	08/03/17 10:29	08/04/17 10:39	1
Bromomethane	360	U	360	40	ug/Kg	☼	08/03/17 10:29	08/04/17 10:39	1
2-Butanone (MEK)	1400	U	1400	72	ug/Kg	☼	08/03/17 10:29	08/04/17 10:39	1
Carbon disulfide	360	U	360	26	ug/Kg	☼	08/03/17 10:29	08/04/17 10:39	1
Carbon tetrachloride	360	U	360	39	ug/Kg	☼	08/03/17 10:29	08/04/17 10:39	1
Chlorobenzene	360	U	360	43	ug/Kg	☼	08/03/17 10:29	08/04/17 10:39	1
Chloroethane	360	U	360	40	ug/Kg	☼	08/03/17 10:29	08/04/17 10:39	1
Chloroform	360	U	360	35	ug/Kg	☼	08/03/17 10:29	08/04/17 10:39	1
Chloromethane	360	U	360	26	ug/Kg	☼	08/03/17 10:29	08/04/17 10:39	1
1,1-Dichloroethane	360	U	360	45	ug/Kg	☼	08/03/17 10:29	08/04/17 10:39	1
1,2-Dichloroethane	360	U	360	43	ug/Kg	☼	08/03/17 10:29	08/04/17 10:39	1
1,1-Dichloroethene	360	U	360	52	ug/Kg	☼	08/03/17 10:29	08/04/17 10:39	1
1,2-Dichloropropane	360	U	360	43	ug/Kg	☼	08/03/17 10:29	08/04/17 10:39	1
cis-1,3-Dichloropropene	360	U	360	33	ug/Kg	☼	08/03/17 10:29	08/04/17 10:39	1
trans-1,3-Dichloropropene	360	U	360	22	ug/Kg	☼	08/03/17 10:29	08/04/17 10:39	1
Ethylbenzene	360	U	360	51	ug/Kg	☼	08/03/17 10:29	08/04/17 10:39	1
2-Hexanone	1400	U	1400	120	ug/Kg	☼	08/03/17 10:29	08/04/17 10:39	1
Methylene Chloride	360	U	360	94	ug/Kg	☼	08/03/17 10:29	08/04/17 10:39	1
4-Methyl-2-pentanone (MIBK)	1400	U	1400	58	ug/Kg	☼	08/03/17 10:29	08/04/17 10:39	1
Styrene	360	U	360	14	ug/Kg	☼	08/03/17 10:29	08/04/17 10:39	1
1,1,2,2-Tetrachloroethane	360	U	360	35	ug/Kg	☼	08/03/17 10:29	08/04/17 10:39	1
Tetrachloroethene	360	U	360	30	ug/Kg	☼	08/03/17 10:29	08/04/17 10:39	1
Toluene	360	U	360	35	ug/Kg	☼	08/03/17 10:29	08/04/17 10:39	1
Trichloroethene	360	U	360	53	ug/Kg	☼	08/03/17 10:29	08/04/17 10:39	1
Vinyl chloride	170	J	360	25	ug/Kg	☼	08/03/17 10:29	08/04/17 10:39	1
Xylenes, Total	720	U	720	40	ug/Kg	☼	08/03/17 10:29	08/04/17 10:39	1
1,1,1-Trichloroethane	360	U	360	40	ug/Kg	☼	08/03/17 10:29	08/04/17 10:39	1
1,1,2-Trichloroethane	360	U	360	33	ug/Kg	☼	08/03/17 10:29	08/04/17 10:39	1
Cyclohexane	720	U	720	43	ug/Kg	☼	08/03/17 10:29	08/04/17 10:39	1
1,2-Dibromo-3-Chloropropane	720	U	720	69	ug/Kg	☼	08/03/17 10:29	08/04/17 10:39	1
Ethylene Dibromide	360	U	360	33	ug/Kg	☼	08/03/17 10:29	08/04/17 10:39	1
Dichlorodifluoromethane	360	U	360	32	ug/Kg	☼	08/03/17 10:29	08/04/17 10:39	1
cis-1,2-Dichloroethene	890		360	51	ug/Kg	☼	08/03/17 10:29	08/04/17 10:39	1
trans-1,2-Dichloroethene	360	U	360	51	ug/Kg	☼	08/03/17 10:29	08/04/17 10:39	1
Isopropylbenzene	360	U	360	49	ug/Kg	☼	08/03/17 10:29	08/04/17 10:39	1
Methyl acetate	1800	U	1800	110	ug/Kg	☼	08/03/17 10:29	08/04/17 10:39	1
Methyl tert-butyl ether	360	U	360	38	ug/Kg	☼	08/03/17 10:29	08/04/17 10:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	360	U	360	33	ug/Kg	☼	08/03/17 10:29	08/04/17 10:39	1
1,2,4-Trichlorobenzene	360	U	360	38	ug/Kg	☼	08/03/17 10:29	08/04/17 10:39	1
1,2-Dichlorobenzene	360	U	360	26	ug/Kg	☼	08/03/17 10:29	08/04/17 10:39	1
1,3-Dichlorobenzene	360	U	360	55	ug/Kg	☼	08/03/17 10:29	08/04/17 10:39	1
1,4-Dichlorobenzene	360	U	360	39	ug/Kg	☼	08/03/17 10:29	08/04/17 10:39	1
Trichlorofluoromethane	360	U	360	49	ug/Kg	☼	08/03/17 10:29	08/04/17 10:39	1
Chlorodibromomethane	360	U	360	49	ug/Kg	☼	08/03/17 10:29	08/04/17 10:39	1
Methylcyclohexane	720	U	720	53	ug/Kg	☼	08/03/17 10:29	08/04/17 10:39	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-015

Lab Sample ID: 240-83124-15

Date Collected: 08/01/17 12:05

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 79.3

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	111		64 - 144	08/03/17 10:29	08/04/17 10:39	1
4-Bromofluorobenzene (Surr)	106		58 - 142	08/03/17 10:29	08/04/17 10:39	1
Toluene-d8 (Surr)	106		61 - 137	08/03/17 10:29	08/04/17 10:39	1
Dibromofluoromethane (Surr)	96		31 - 155	08/03/17 10:29	08/04/17 10:39	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-015

Lab Sample ID: 240-83124-15

Date Collected: 08/01/17 12:05

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 79.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	65	U	65	31	ug/Kg	☼	08/03/17 08:41	08/04/17 21:03	1
Aroclor-1221	65	U	65	30	ug/Kg	☼	08/03/17 08:41	08/04/17 21:03	1
Aroclor-1232	65	U	65	21	ug/Kg	☼	08/03/17 08:41	08/04/17 21:03	1
Aroclor-1242	65	U	65	26	ug/Kg	☼	08/03/17 08:41	08/04/17 21:03	1
Aroclor-1248	65	U	65	22	ug/Kg	☼	08/03/17 08:41	08/04/17 21:03	1
Aroclor-1254	65	U	65	18	ug/Kg	☼	08/03/17 08:41	08/04/17 21:03	1
Aroclor-1260	65	U	65	23	ug/Kg	☼	08/03/17 08:41	08/04/17 21:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	80		14 - 128	08/03/17 08:41	08/04/17 21:03	1
DCB Decachlorobiphenyl	105		10 - 132	08/03/17 08:41	08/04/17 21:03	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-015

Lab Sample ID: 240-83124-15

Date Collected: 08/01/17 12:05

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 79.3

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	79.3		0.1	0.1	%			08/03/17 08:32	1
Percent Moisture	20.7		0.1	0.1	%			08/03/17 08:32	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-016

Lab Sample ID: 240-83124-16

Date Collected: 08/01/17 15:15

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 88.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1200	U	1200	120	ug/Kg	☼	08/03/17 10:29	08/04/17 11:00	1
Benzene	310	U	310	29	ug/Kg	☼	08/03/17 10:29	08/04/17 11:00	1
Dichlorobromomethane	310	U	310	22	ug/Kg	☼	08/03/17 10:29	08/04/17 11:00	1
Bromoform	310	U	310	28	ug/Kg	☼	08/03/17 10:29	08/04/17 11:00	1
Bromomethane	310	U	310	34	ug/Kg	☼	08/03/17 10:29	08/04/17 11:00	1
2-Butanone (MEK)	1200	U	1200	61	ug/Kg	☼	08/03/17 10:29	08/04/17 11:00	1
Carbon disulfide	310	U	310	22	ug/Kg	☼	08/03/17 10:29	08/04/17 11:00	1
Carbon tetrachloride	310	U	310	33	ug/Kg	☼	08/03/17 10:29	08/04/17 11:00	1
Chlorobenzene	310	U	310	37	ug/Kg	☼	08/03/17 10:29	08/04/17 11:00	1
Chloroethane	310	U	310	34	ug/Kg	☼	08/03/17 10:29	08/04/17 11:00	1
Chloroform	310	U	310	29	ug/Kg	☼	08/03/17 10:29	08/04/17 11:00	1
Chloromethane	310	U	310	22	ug/Kg	☼	08/03/17 10:29	08/04/17 11:00	1
1,1-Dichloroethane	310	U	310	38	ug/Kg	☼	08/03/17 10:29	08/04/17 11:00	1
1,2-Dichloroethane	310	U	310	37	ug/Kg	☼	08/03/17 10:29	08/04/17 11:00	1
1,1-Dichloroethene	310	U	310	44	ug/Kg	☼	08/03/17 10:29	08/04/17 11:00	1
1,2-Dichloropropane	310	U	310	37	ug/Kg	☼	08/03/17 10:29	08/04/17 11:00	1
cis-1,3-Dichloropropene	310	U	310	28	ug/Kg	☼	08/03/17 10:29	08/04/17 11:00	1
trans-1,3-Dichloropropene	310	U	310	18	ug/Kg	☼	08/03/17 10:29	08/04/17 11:00	1
Ethylbenzene	310	U	310	43	ug/Kg	☼	08/03/17 10:29	08/04/17 11:00	1
2-Hexanone	1200	U	1200	110	ug/Kg	☼	08/03/17 10:29	08/04/17 11:00	1
Methylene Chloride	310	U	310	80	ug/Kg	☼	08/03/17 10:29	08/04/17 11:00	1
4-Methyl-2-pentanone (MIBK)	1200	U	1200	49	ug/Kg	☼	08/03/17 10:29	08/04/17 11:00	1
Styrene	310	U	310	12	ug/Kg	☼	08/03/17 10:29	08/04/17 11:00	1
1,1,2,2-Tetrachloroethane	310	U	310	29	ug/Kg	☼	08/03/17 10:29	08/04/17 11:00	1
Tetrachloroethene	310	U	310	26	ug/Kg	☼	08/03/17 10:29	08/04/17 11:00	1
Toluene	310	U	310	29	ug/Kg	☼	08/03/17 10:29	08/04/17 11:00	1
Trichloroethene	310	U	310	45	ug/Kg	☼	08/03/17 10:29	08/04/17 11:00	1
Vinyl chloride	310	U	310	21	ug/Kg	☼	08/03/17 10:29	08/04/17 11:00	1
Xylenes, Total	610	U	610	34	ug/Kg	☼	08/03/17 10:29	08/04/17 11:00	1
1,1,1-Trichloroethane	310	U	310	34	ug/Kg	☼	08/03/17 10:29	08/04/17 11:00	1
1,1,2-Trichloroethane	310	U	310	28	ug/Kg	☼	08/03/17 10:29	08/04/17 11:00	1
Cyclohexane	610	U	610	37	ug/Kg	☼	08/03/17 10:29	08/04/17 11:00	1
1,2-Dibromo-3-Chloropropane	610	U	610	59	ug/Kg	☼	08/03/17 10:29	08/04/17 11:00	1
Ethylene Dibromide	310	U	310	28	ug/Kg	☼	08/03/17 10:29	08/04/17 11:00	1
Dichlorodifluoromethane	310	U	310	27	ug/Kg	☼	08/03/17 10:29	08/04/17 11:00	1
cis-1,2-Dichloroethene	310	U	310	43	ug/Kg	☼	08/03/17 10:29	08/04/17 11:00	1
trans-1,2-Dichloroethene	310	U	310	43	ug/Kg	☼	08/03/17 10:29	08/04/17 11:00	1
Isopropylbenzene	310	U	310	42	ug/Kg	☼	08/03/17 10:29	08/04/17 11:00	1
Methyl acetate	1500	U	1500	92	ug/Kg	☼	08/03/17 10:29	08/04/17 11:00	1
Methyl tert-butyl ether	310	U	310	32	ug/Kg	☼	08/03/17 10:29	08/04/17 11:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	310	U	310	28	ug/Kg	☼	08/03/17 10:29	08/04/17 11:00	1
1,2,4-Trichlorobenzene	310	U	310	32	ug/Kg	☼	08/03/17 10:29	08/04/17 11:00	1
1,2-Dichlorobenzene	310	U	310	22	ug/Kg	☼	08/03/17 10:29	08/04/17 11:00	1
1,3-Dichlorobenzene	310	U	310	47	ug/Kg	☼	08/03/17 10:29	08/04/17 11:00	1
1,4-Dichlorobenzene	310	U	310	33	ug/Kg	☼	08/03/17 10:29	08/04/17 11:00	1
Trichlorofluoromethane	310	U	310	42	ug/Kg	☼	08/03/17 10:29	08/04/17 11:00	1
Chlorodibromomethane	310	U	310	42	ug/Kg	☼	08/03/17 10:29	08/04/17 11:00	1
Methylcyclohexane	610	U	610	45	ug/Kg	☼	08/03/17 10:29	08/04/17 11:00	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-016

Lab Sample ID: 240-83124-16

Date Collected: 08/01/17 15:15

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 88.8

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	118		64 - 144	08/03/17 10:29	08/04/17 11:00	1
4-Bromofluorobenzene (Surr)	113		58 - 142	08/03/17 10:29	08/04/17 11:00	1
Toluene-d8 (Surr)	111		61 - 137	08/03/17 10:29	08/04/17 11:00	1
Dibromofluoromethane (Surr)	101		31 - 155	08/03/17 10:29	08/04/17 11:00	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-016

Lab Sample ID: 240-83124-16

Date Collected: 08/01/17 15:15

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 88.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	59	U	59	28	ug/Kg	☼	08/03/17 08:41	08/04/17 21:23	1
Aroclor-1221	59	U	59	27	ug/Kg	☼	08/03/17 08:41	08/04/17 21:23	1
Aroclor-1232	59	U	59	19	ug/Kg	☼	08/03/17 08:41	08/04/17 21:23	1
Aroclor-1242	59	U	59	24	ug/Kg	☼	08/03/17 08:41	08/04/17 21:23	1
Aroclor-1248	59	U	59	20	ug/Kg	☼	08/03/17 08:41	08/04/17 21:23	1
Aroclor-1254	59	U	59	17	ug/Kg	☼	08/03/17 08:41	08/04/17 21:23	1
Aroclor-1260	59	U	59	21	ug/Kg	☼	08/03/17 08:41	08/04/17 21:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	64		14 - 128	08/03/17 08:41	08/04/17 21:23	1
DCB Decachlorobiphenyl	77		10 - 132	08/03/17 08:41	08/04/17 21:23	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-016

Lab Sample ID: 240-83124-16

Date Collected: 08/01/17 15:15

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 88.8

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	88.8		0.1	0.1	%			08/03/17 08:32	1
Percent Moisture	11.2		0.1	0.1	%			08/03/17 08:32	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-017

Lab Sample ID: 240-83124-17

Date Collected: 08/01/17 15:20

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 79.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1300	U	1300	130	ug/Kg	☼	08/03/17 10:29	08/04/17 11:22	1
Benzene	330	U	330	32	ug/Kg	☼	08/03/17 10:29	08/04/17 11:22	1
Dichlorobromomethane	330	U	330	24	ug/Kg	☼	08/03/17 10:29	08/04/17 11:22	1
Bromoform	330	U	330	31	ug/Kg	☼	08/03/17 10:29	08/04/17 11:22	1
Bromomethane	330	U	330	37	ug/Kg	☼	08/03/17 10:29	08/04/17 11:22	1
2-Butanone (MEK)	1300	U	1300	67	ug/Kg	☼	08/03/17 10:29	08/04/17 11:22	1
Carbon disulfide	330	U	330	24	ug/Kg	☼	08/03/17 10:29	08/04/17 11:22	1
Carbon tetrachloride	330	U	330	36	ug/Kg	☼	08/03/17 10:29	08/04/17 11:22	1
Chlorobenzene	330	U	330	40	ug/Kg	☼	08/03/17 10:29	08/04/17 11:22	1
Chloroethane	330	U	330	37	ug/Kg	☼	08/03/17 10:29	08/04/17 11:22	1
Chloroform	330	U	330	32	ug/Kg	☼	08/03/17 10:29	08/04/17 11:22	1
Chloromethane	330	U	330	24	ug/Kg	☼	08/03/17 10:29	08/04/17 11:22	1
1,1-Dichloroethane	330	U	330	41	ug/Kg	☼	08/03/17 10:29	08/04/17 11:22	1
1,2-Dichloroethane	330	U	330	40	ug/Kg	☼	08/03/17 10:29	08/04/17 11:22	1
1,1-Dichloroethene	330	U	330	48	ug/Kg	☼	08/03/17 10:29	08/04/17 11:22	1
1,2-Dichloropropane	330	U	330	40	ug/Kg	☼	08/03/17 10:29	08/04/17 11:22	1
cis-1,3-Dichloropropene	330	U	330	31	ug/Kg	☼	08/03/17 10:29	08/04/17 11:22	1
trans-1,3-Dichloropropene	330	U	330	20	ug/Kg	☼	08/03/17 10:29	08/04/17 11:22	1
Ethylbenzene	330	U	330	47	ug/Kg	☼	08/03/17 10:29	08/04/17 11:22	1
2-Hexanone	1300	U	1300	120	ug/Kg	☼	08/03/17 10:29	08/04/17 11:22	1
Methylene Chloride	330	U	330	87	ug/Kg	☼	08/03/17 10:29	08/04/17 11:22	1
4-Methyl-2-pentanone (MIBK)	1300	U	1300	53	ug/Kg	☼	08/03/17 10:29	08/04/17 11:22	1
Styrene	330	U	330	13	ug/Kg	☼	08/03/17 10:29	08/04/17 11:22	1
1,1,2,2-Tetrachloroethane	330	U	330	32	ug/Kg	☼	08/03/17 10:29	08/04/17 11:22	1
Tetrachloroethene	330	U	330	28	ug/Kg	☼	08/03/17 10:29	08/04/17 11:22	1
Toluene	330	U	330	32	ug/Kg	☼	08/03/17 10:29	08/04/17 11:22	1
Trichloroethene	330	U	330	49	ug/Kg	☼	08/03/17 10:29	08/04/17 11:22	1
Vinyl chloride	330	U	330	23	ug/Kg	☼	08/03/17 10:29	08/04/17 11:22	1
Xylenes, Total	670	U	670	37	ug/Kg	☼	08/03/17 10:29	08/04/17 11:22	1
1,1,1-Trichloroethane	330	U	330	37	ug/Kg	☼	08/03/17 10:29	08/04/17 11:22	1
1,1,2-Trichloroethane	330	U	330	31	ug/Kg	☼	08/03/17 10:29	08/04/17 11:22	1
Cyclohexane	670	U	670	40	ug/Kg	☼	08/03/17 10:29	08/04/17 11:22	1
1,2-Dibromo-3-Chloropropane	670	U	670	64	ug/Kg	☼	08/03/17 10:29	08/04/17 11:22	1
Ethylene Dibromide	330	U	330	31	ug/Kg	☼	08/03/17 10:29	08/04/17 11:22	1
Dichlorodifluoromethane	330	U	330	29	ug/Kg	☼	08/03/17 10:29	08/04/17 11:22	1
cis-1,2-Dichloroethene	330	U	330	47	ug/Kg	☼	08/03/17 10:29	08/04/17 11:22	1
trans-1,2-Dichloroethene	330	U	330	47	ug/Kg	☼	08/03/17 10:29	08/04/17 11:22	1
Isopropylbenzene	330	U	330	45	ug/Kg	☼	08/03/17 10:29	08/04/17 11:22	1
Methyl acetate	1700	U	1700	100	ug/Kg	☼	08/03/17 10:29	08/04/17 11:22	1
Methyl tert-butyl ether	330	U	330	35	ug/Kg	☼	08/03/17 10:29	08/04/17 11:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	330	U	330	31	ug/Kg	☼	08/03/17 10:29	08/04/17 11:22	1
1,2,4-Trichlorobenzene	330	U	330	35	ug/Kg	☼	08/03/17 10:29	08/04/17 11:22	1
1,2-Dichlorobenzene	330	U	330	24	ug/Kg	☼	08/03/17 10:29	08/04/17 11:22	1
1,3-Dichlorobenzene	330	U	330	51	ug/Kg	☼	08/03/17 10:29	08/04/17 11:22	1
1,4-Dichlorobenzene	330	U	330	36	ug/Kg	☼	08/03/17 10:29	08/04/17 11:22	1
Trichlorofluoromethane	330	U	330	45	ug/Kg	☼	08/03/17 10:29	08/04/17 11:22	1
Chlorodibromomethane	330	U	330	45	ug/Kg	☼	08/03/17 10:29	08/04/17 11:22	1
Methylcyclohexane	670	U	670	49	ug/Kg	☼	08/03/17 10:29	08/04/17 11:22	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-017

Lab Sample ID: 240-83124-17

Date Collected: 08/01/17 15:20

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 79.5

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	113		64 - 144	08/03/17 10:29	08/04/17 11:22	1
4-Bromofluorobenzene (Surr)	105		58 - 142	08/03/17 10:29	08/04/17 11:22	1
Toluene-d8 (Surr)	103		61 - 137	08/03/17 10:29	08/04/17 11:22	1
Dibromofluoromethane (Surr)	96		31 - 155	08/03/17 10:29	08/04/17 11:22	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-017

Lab Sample ID: 240-83124-17

Date Collected: 08/01/17 15:20

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 79.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	64	U	64	31	ug/Kg	☼	08/03/17 08:41	08/04/17 21:42	1
Aroclor-1221	64	U	64	30	ug/Kg	☼	08/03/17 08:41	08/04/17 21:42	1
Aroclor-1232	64	U	64	21	ug/Kg	☼	08/03/17 08:41	08/04/17 21:42	1
Aroclor-1242	64	U	64	26	ug/Kg	☼	08/03/17 08:41	08/04/17 21:42	1
Aroclor-1248	64	U	64	22	ug/Kg	☼	08/03/17 08:41	08/04/17 21:42	1
Aroclor-1254	64	U	64	18	ug/Kg	☼	08/03/17 08:41	08/04/17 21:42	1
Aroclor-1260	64	U	64	23	ug/Kg	☼	08/03/17 08:41	08/04/17 21:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	86		14 - 128	08/03/17 08:41	08/04/17 21:42	1
DCB Decachlorobiphenyl	106		10 - 132	08/03/17 08:41	08/04/17 21:42	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-017

Lab Sample ID: 240-83124-17

Date Collected: 08/01/17 15:20

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 79.5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	79.5		0.1	0.1	%			08/03/17 08:32	1
Percent Moisture	20.5		0.1	0.1	%			08/03/17 08:32	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-018

Lab Sample ID: 240-83124-18

Date Collected: 08/01/17 16:20

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1400	U	1400	140	ug/Kg	☼	08/03/17 10:29	08/04/17 11:43	1
Benzene	360	U	360	34	ug/Kg	☼	08/03/17 10:29	08/04/17 11:43	1
Dichlorobromomethane	360	U	360	26	ug/Kg	☼	08/03/17 10:29	08/04/17 11:43	1
Bromoform	360	U	360	33	ug/Kg	☼	08/03/17 10:29	08/04/17 11:43	1
Bromomethane	360	U	360	40	ug/Kg	☼	08/03/17 10:29	08/04/17 11:43	1
2-Butanone (MEK)	1400	U	1400	72	ug/Kg	☼	08/03/17 10:29	08/04/17 11:43	1
Carbon disulfide	360	U	360	26	ug/Kg	☼	08/03/17 10:29	08/04/17 11:43	1
Carbon tetrachloride	360	U	360	39	ug/Kg	☼	08/03/17 10:29	08/04/17 11:43	1
Chlorobenzene	360	U	360	43	ug/Kg	☼	08/03/17 10:29	08/04/17 11:43	1
Chloroethane	360	U	360	40	ug/Kg	☼	08/03/17 10:29	08/04/17 11:43	1
Chloroform	360	U	360	34	ug/Kg	☼	08/03/17 10:29	08/04/17 11:43	1
Chloromethane	360	U	360	26	ug/Kg	☼	08/03/17 10:29	08/04/17 11:43	1
1,1-Dichloroethane	360	U	360	45	ug/Kg	☼	08/03/17 10:29	08/04/17 11:43	1
1,2-Dichloroethane	360	U	360	43	ug/Kg	☼	08/03/17 10:29	08/04/17 11:43	1
1,1-Dichloroethene	360	U	360	52	ug/Kg	☼	08/03/17 10:29	08/04/17 11:43	1
1,2-Dichloropropane	360	U	360	43	ug/Kg	☼	08/03/17 10:29	08/04/17 11:43	1
cis-1,3-Dichloropropene	360	U	360	33	ug/Kg	☼	08/03/17 10:29	08/04/17 11:43	1
trans-1,3-Dichloropropene	360	U	360	22	ug/Kg	☼	08/03/17 10:29	08/04/17 11:43	1
Ethylbenzene	360	U	360	50	ug/Kg	☼	08/03/17 10:29	08/04/17 11:43	1
2-Hexanone	1400	U	1400	120	ug/Kg	☼	08/03/17 10:29	08/04/17 11:43	1
Methylene Chloride	360	U	360	93	ug/Kg	☼	08/03/17 10:29	08/04/17 11:43	1
4-Methyl-2-pentanone (MIBK)	1400	U	1400	57	ug/Kg	☼	08/03/17 10:29	08/04/17 11:43	1
Styrene	360	U	360	14	ug/Kg	☼	08/03/17 10:29	08/04/17 11:43	1
1,1,2,2-Tetrachloroethane	360	U	360	34	ug/Kg	☼	08/03/17 10:29	08/04/17 11:43	1
Tetrachloroethene	360	U	360	30	ug/Kg	☼	08/03/17 10:29	08/04/17 11:43	1
Toluene	360	U	360	34	ug/Kg	☼	08/03/17 10:29	08/04/17 11:43	1
Trichloroethene	360	U	360	53	ug/Kg	☼	08/03/17 10:29	08/04/17 11:43	1
Vinyl chloride	360	U	360	24	ug/Kg	☼	08/03/17 10:29	08/04/17 11:43	1
Xylenes, Total	720	U	720	40	ug/Kg	☼	08/03/17 10:29	08/04/17 11:43	1
1,1,1-Trichloroethane	360	U	360	40	ug/Kg	☼	08/03/17 10:29	08/04/17 11:43	1
1,1,2-Trichloroethane	360	U	360	33	ug/Kg	☼	08/03/17 10:29	08/04/17 11:43	1
Cyclohexane	720	U	720	43	ug/Kg	☼	08/03/17 10:29	08/04/17 11:43	1
1,2-Dibromo-3-Chloropropane	720	U	720	69	ug/Kg	☼	08/03/17 10:29	08/04/17 11:43	1
Ethylene Dibromide	360	U	360	33	ug/Kg	☼	08/03/17 10:29	08/04/17 11:43	1
Dichlorodifluoromethane	360	U	360	32	ug/Kg	☼	08/03/17 10:29	08/04/17 11:43	1
cis-1,2-Dichloroethene	360	U	360	50	ug/Kg	☼	08/03/17 10:29	08/04/17 11:43	1
trans-1,2-Dichloroethene	360	U	360	50	ug/Kg	☼	08/03/17 10:29	08/04/17 11:43	1
Isopropylbenzene	360	U	360	49	ug/Kg	☼	08/03/17 10:29	08/04/17 11:43	1
Methyl acetate	1800	U	1800	110	ug/Kg	☼	08/03/17 10:29	08/04/17 11:43	1
Methyl tert-butyl ether	360	U	360	37	ug/Kg	☼	08/03/17 10:29	08/04/17 11:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	360	U	360	33	ug/Kg	☼	08/03/17 10:29	08/04/17 11:43	1
1,2,4-Trichlorobenzene	360	U	360	37	ug/Kg	☼	08/03/17 10:29	08/04/17 11:43	1
1,2-Dichlorobenzene	360	U	360	26	ug/Kg	☼	08/03/17 10:29	08/04/17 11:43	1
1,3-Dichlorobenzene	360	U	360	55	ug/Kg	☼	08/03/17 10:29	08/04/17 11:43	1
1,4-Dichlorobenzene	360	U	360	39	ug/Kg	☼	08/03/17 10:29	08/04/17 11:43	1
Trichlorofluoromethane	360	U	360	49	ug/Kg	☼	08/03/17 10:29	08/04/17 11:43	1
Chlorodibromomethane	360	U	360	49	ug/Kg	☼	08/03/17 10:29	08/04/17 11:43	1
Methylcyclohexane	720	U	720	53	ug/Kg	☼	08/03/17 10:29	08/04/17 11:43	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-018

Lab Sample ID: 240-83124-18

Date Collected: 08/01/17 16:20

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 82.6

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	130		64 - 144	08/03/17 10:29	08/04/17 11:43	1
4-Bromofluorobenzene (Surr)	122		58 - 142	08/03/17 10:29	08/04/17 11:43	1
Toluene-d8 (Surr)	121		61 - 137	08/03/17 10:29	08/04/17 11:43	1
Dibromofluoromethane (Surr)	109		31 - 155	08/03/17 10:29	08/04/17 11:43	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-018

Lab Sample ID: 240-83124-18

Date Collected: 08/01/17 16:20

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	62	U	62	30	ug/Kg	☼	08/03/17 08:41	08/04/17 22:02	1
Aroclor-1221	62	U	62	28	ug/Kg	☼	08/03/17 08:41	08/04/17 22:02	1
Aroclor-1232	62	U	62	20	ug/Kg	☼	08/03/17 08:41	08/04/17 22:02	1
Aroclor-1242	62	U	62	25	ug/Kg	☼	08/03/17 08:41	08/04/17 22:02	1
Aroclor-1248	62	U	62	21	ug/Kg	☼	08/03/17 08:41	08/04/17 22:02	1
Aroclor-1254	62	U	62	17	ug/Kg	☼	08/03/17 08:41	08/04/17 22:02	1
Aroclor-1260	62	U	62	22	ug/Kg	☼	08/03/17 08:41	08/04/17 22:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	57		14 - 128	08/03/17 08:41	08/04/17 22:02	1
DCB Decachlorobiphenyl	95		10 - 132	08/03/17 08:41	08/04/17 22:02	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-018

Lab Sample ID: 240-83124-18

Date Collected: 08/01/17 16:20

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 82.6

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	82.6		0.1	0.1	%			08/03/17 08:32	1
Percent Moisture	17.4		0.1	0.1	%			08/03/17 08:32	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-019

Lab Sample ID: 240-83124-19

Date Collected: 08/01/17 16:25

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 77.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1300	U	1300	130	ug/Kg	☼	08/03/17 10:29	08/04/17 12:04	1
Benzene	330	U	330	32	ug/Kg	☼	08/03/17 10:29	08/04/17 12:04	1
Dichlorobromomethane	330	U	330	24	ug/Kg	☼	08/03/17 10:29	08/04/17 12:04	1
Bromoform	330	U	330	31	ug/Kg	☼	08/03/17 10:29	08/04/17 12:04	1
Bromomethane	330	U	330	37	ug/Kg	☼	08/03/17 10:29	08/04/17 12:04	1
2-Butanone (MEK)	1300	U	1300	67	ug/Kg	☼	08/03/17 10:29	08/04/17 12:04	1
Carbon disulfide	330	U	330	24	ug/Kg	☼	08/03/17 10:29	08/04/17 12:04	1
Carbon tetrachloride	330	U	330	36	ug/Kg	☼	08/03/17 10:29	08/04/17 12:04	1
Chlorobenzene	330	U	330	40	ug/Kg	☼	08/03/17 10:29	08/04/17 12:04	1
Chloroethane	330	U	330	37	ug/Kg	☼	08/03/17 10:29	08/04/17 12:04	1
Chloroform	330	U	330	32	ug/Kg	☼	08/03/17 10:29	08/04/17 12:04	1
Chloromethane	330	U	330	24	ug/Kg	☼	08/03/17 10:29	08/04/17 12:04	1
1,1-Dichloroethane	330	U	330	41	ug/Kg	☼	08/03/17 10:29	08/04/17 12:04	1
1,2-Dichloroethane	330	U	330	40	ug/Kg	☼	08/03/17 10:29	08/04/17 12:04	1
1,1-Dichloroethene	330	U	330	48	ug/Kg	☼	08/03/17 10:29	08/04/17 12:04	1
1,2-Dichloropropane	330	U	330	40	ug/Kg	☼	08/03/17 10:29	08/04/17 12:04	1
cis-1,3-Dichloropropene	330	U	330	31	ug/Kg	☼	08/03/17 10:29	08/04/17 12:04	1
trans-1,3-Dichloropropene	330	U	330	20	ug/Kg	☼	08/03/17 10:29	08/04/17 12:04	1
Ethylbenzene	330	U	330	47	ug/Kg	☼	08/03/17 10:29	08/04/17 12:04	1
2-Hexanone	1300	U	1300	120	ug/Kg	☼	08/03/17 10:29	08/04/17 12:04	1
Methylene Chloride	330	U	330	87	ug/Kg	☼	08/03/17 10:29	08/04/17 12:04	1
4-Methyl-2-pentanone (MIBK)	1300	U	1300	54	ug/Kg	☼	08/03/17 10:29	08/04/17 12:04	1
Styrene	330	U	330	13	ug/Kg	☼	08/03/17 10:29	08/04/17 12:04	1
1,1,2,2-Tetrachloroethane	330	U	330	32	ug/Kg	☼	08/03/17 10:29	08/04/17 12:04	1
Tetrachloroethene	330	U	330	28	ug/Kg	☼	08/03/17 10:29	08/04/17 12:04	1
Toluene	330	U	330	32	ug/Kg	☼	08/03/17 10:29	08/04/17 12:04	1
Trichloroethene	330	U	330	50	ug/Kg	☼	08/03/17 10:29	08/04/17 12:04	1
Vinyl chloride	330	U	330	23	ug/Kg	☼	08/03/17 10:29	08/04/17 12:04	1
Xylenes, Total	670	U	670	37	ug/Kg	☼	08/03/17 10:29	08/04/17 12:04	1
1,1,1-Trichloroethane	330	U	330	37	ug/Kg	☼	08/03/17 10:29	08/04/17 12:04	1
1,1,2-Trichloroethane	330	U	330	31	ug/Kg	☼	08/03/17 10:29	08/04/17 12:04	1
Cyclohexane	670	U	670	40	ug/Kg	☼	08/03/17 10:29	08/04/17 12:04	1
1,2-Dibromo-3-Chloropropane	670	U	670	64	ug/Kg	☼	08/03/17 10:29	08/04/17 12:04	1
Ethylene Dibromide	330	U	330	31	ug/Kg	☼	08/03/17 10:29	08/04/17 12:04	1
Dichlorodifluoromethane	330	U	330	29	ug/Kg	☼	08/03/17 10:29	08/04/17 12:04	1
cis-1,2-Dichloroethene	330	U	330	47	ug/Kg	☼	08/03/17 10:29	08/04/17 12:04	1
trans-1,2-Dichloroethene	330	U	330	47	ug/Kg	☼	08/03/17 10:29	08/04/17 12:04	1
Isopropylbenzene	330	U	330	45	ug/Kg	☼	08/03/17 10:29	08/04/17 12:04	1
Methyl acetate	1700	U	1700	100	ug/Kg	☼	08/03/17 10:29	08/04/17 12:04	1
Methyl tert-butyl ether	330	U	330	35	ug/Kg	☼	08/03/17 10:29	08/04/17 12:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	330	U	330	31	ug/Kg	☼	08/03/17 10:29	08/04/17 12:04	1
1,2,4-Trichlorobenzene	330	U	330	35	ug/Kg	☼	08/03/17 10:29	08/04/17 12:04	1
1,2-Dichlorobenzene	330	U	330	24	ug/Kg	☼	08/03/17 10:29	08/04/17 12:04	1
1,3-Dichlorobenzene	330	U	330	51	ug/Kg	☼	08/03/17 10:29	08/04/17 12:04	1
1,4-Dichlorobenzene	330	U	330	36	ug/Kg	☼	08/03/17 10:29	08/04/17 12:04	1
Trichlorofluoromethane	330	U	330	45	ug/Kg	☼	08/03/17 10:29	08/04/17 12:04	1
Chlorodibromomethane	330	U	330	45	ug/Kg	☼	08/03/17 10:29	08/04/17 12:04	1
Methylcyclohexane	670	U	670	50	ug/Kg	☼	08/03/17 10:29	08/04/17 12:04	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-019

Lab Sample ID: 240-83124-19

Date Collected: 08/01/17 16:25

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 77.2

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	113		64 - 144	08/03/17 10:29	08/04/17 12:04	1
4-Bromofluorobenzene (Surr)	102		58 - 142	08/03/17 10:29	08/04/17 12:04	1
Toluene-d8 (Surr)	102		61 - 137	08/03/17 10:29	08/04/17 12:04	1
Dibromofluoromethane (Surr)	93		31 - 155	08/03/17 10:29	08/04/17 12:04	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-019

Lab Sample ID: 240-83124-19

Date Collected: 08/01/17 16:25

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 77.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	68	U	68	32	ug/Kg	☼	08/03/17 08:41	08/04/17 22:21	1
Aroclor-1221	68	U	68	31	ug/Kg	☼	08/03/17 08:41	08/04/17 22:21	1
Aroclor-1232	68	U	68	22	ug/Kg	☼	08/03/17 08:41	08/04/17 22:21	1
Aroclor-1242	68	U	68	27	ug/Kg	☼	08/03/17 08:41	08/04/17 22:21	1
Aroclor-1248	68	U	68	23	ug/Kg	☼	08/03/17 08:41	08/04/17 22:21	1
Aroclor-1254	68	U	68	19	ug/Kg	☼	08/03/17 08:41	08/04/17 22:21	1
Aroclor-1260	68	U	68	24	ug/Kg	☼	08/03/17 08:41	08/04/17 22:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	70		14 - 128	08/03/17 08:41	08/04/17 22:21	1
DCB Decachlorobiphenyl	97		10 - 132	08/03/17 08:41	08/04/17 22:21	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-019

Lab Sample ID: 240-83124-19

Date Collected: 08/01/17 16:25

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 77.2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	77.2		0.1	0.1	%			08/03/17 09:21	1
Percent Moisture	22.8		0.1	0.1	%			08/03/17 09:21	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-020

Lab Sample ID: 240-83124-20

Date Collected: 08/01/17 17:15

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1300	U F1	1300	130	ug/Kg	☼	08/03/17 12:53	08/04/17 13:09	1
Benzene	330	U	330	31	ug/Kg	☼	08/03/17 12:53	08/04/17 13:09	1
Dichlorobromomethane	330	U	330	24	ug/Kg	☼	08/03/17 12:53	08/04/17 13:09	1
Bromoform	330	U	330	30	ug/Kg	☼	08/03/17 12:53	08/04/17 13:09	1
Bromomethane	330	U	330	37	ug/Kg	☼	08/03/17 12:53	08/04/17 13:09	1
2-Butanone (MEK)	1300	U	1300	65	ug/Kg	☼	08/03/17 12:53	08/04/17 13:09	1
Carbon disulfide	330	U	330	24	ug/Kg	☼	08/03/17 12:53	08/04/17 13:09	1
Carbon tetrachloride	330	U	330	35	ug/Kg	☼	08/03/17 12:53	08/04/17 13:09	1
Chlorobenzene	330	U	330	39	ug/Kg	☼	08/03/17 12:53	08/04/17 13:09	1
Chloroethane	330	U	330	37	ug/Kg	☼	08/03/17 12:53	08/04/17 13:09	1
Chloroform	330	U	330	31	ug/Kg	☼	08/03/17 12:53	08/04/17 13:09	1
Chloromethane	330	U	330	24	ug/Kg	☼	08/03/17 12:53	08/04/17 13:09	1
1,1-Dichloroethane	330	U F1	330	41	ug/Kg	☼	08/03/17 12:53	08/04/17 13:09	1
1,2-Dichloroethane	330	U F1	330	39	ug/Kg	☼	08/03/17 12:53	08/04/17 13:09	1
1,1-Dichloroethene	330	U	330	47	ug/Kg	☼	08/03/17 12:53	08/04/17 13:09	1
1,2-Dichloropropane	330	U F1	330	39	ug/Kg	☼	08/03/17 12:53	08/04/17 13:09	1
cis-1,3-Dichloropropene	330	U	330	30	ug/Kg	☼	08/03/17 12:53	08/04/17 13:09	1
trans-1,3-Dichloropropene	330	U	330	20	ug/Kg	☼	08/03/17 12:53	08/04/17 13:09	1
Ethylbenzene	330	U	330	46	ug/Kg	☼	08/03/17 12:53	08/04/17 13:09	1
2-Hexanone	1300	U	1300	110	ug/Kg	☼	08/03/17 12:53	08/04/17 13:09	1
Methylene Chloride	330	U	330	85	ug/Kg	☼	08/03/17 12:53	08/04/17 13:09	1
4-Methyl-2-pentanone (MIBK)	1300	U	1300	52	ug/Kg	☼	08/03/17 12:53	08/04/17 13:09	1
Styrene	330	U	330	13	ug/Kg	☼	08/03/17 12:53	08/04/17 13:09	1
1,1,2,2-Tetrachloroethane	330	U	330	31	ug/Kg	☼	08/03/17 12:53	08/04/17 13:09	1
Tetrachloroethene	330	U	330	27	ug/Kg	☼	08/03/17 12:53	08/04/17 13:09	1
Toluene	330	U	330	31	ug/Kg	☼	08/03/17 12:53	08/04/17 13:09	1
Trichloroethene	330	U	330	48	ug/Kg	☼	08/03/17 12:53	08/04/17 13:09	1
Vinyl chloride	330	U	330	22	ug/Kg	☼	08/03/17 12:53	08/04/17 13:09	1
Xylenes, Total	650	U	650	37	ug/Kg	☼	08/03/17 12:53	08/04/17 13:09	1
1,1,1-Trichloroethane	330	U	330	37	ug/Kg	☼	08/03/17 12:53	08/04/17 13:09	1
1,1,2-Trichloroethane	330	U	330	30	ug/Kg	☼	08/03/17 12:53	08/04/17 13:09	1
Cyclohexane	650	U	650	39	ug/Kg	☼	08/03/17 12:53	08/04/17 13:09	1
1,2-Dibromo-3-Chloropropane	650	U	650	63	ug/Kg	☼	08/03/17 12:53	08/04/17 13:09	1
Ethylene Dibromide	330	U	330	30	ug/Kg	☼	08/03/17 12:53	08/04/17 13:09	1
Dichlorodifluoromethane	330	U	330	29	ug/Kg	☼	08/03/17 12:53	08/04/17 13:09	1
cis-1,2-Dichloroethene	330	U F1	330	46	ug/Kg	☼	08/03/17 12:53	08/04/17 13:09	1
trans-1,2-Dichloroethene	330	U	330	46	ug/Kg	☼	08/03/17 12:53	08/04/17 13:09	1
Isopropylbenzene	330	U	330	44	ug/Kg	☼	08/03/17 12:53	08/04/17 13:09	1
Methyl acetate	1600	U	1600	98	ug/Kg	☼	08/03/17 12:53	08/04/17 13:09	1
Methyl tert-butyl ether	330	U	330	34	ug/Kg	☼	08/03/17 12:53	08/04/17 13:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	330	U	330	30	ug/Kg	☼	08/03/17 12:53	08/04/17 13:09	1
1,2,4-Trichlorobenzene	330	U	330	34	ug/Kg	☼	08/03/17 12:53	08/04/17 13:09	1
1,2-Dichlorobenzene	330	U	330	24	ug/Kg	☼	08/03/17 12:53	08/04/17 13:09	1
1,3-Dichlorobenzene	330	U	330	50	ug/Kg	☼	08/03/17 12:53	08/04/17 13:09	1
1,4-Dichlorobenzene	330	U	330	35	ug/Kg	☼	08/03/17 12:53	08/04/17 13:09	1
Trichlorofluoromethane	330	U	330	44	ug/Kg	☼	08/03/17 12:53	08/04/17 13:09	1
Chlorodibromomethane	330	U	330	44	ug/Kg	☼	08/03/17 12:53	08/04/17 13:09	1
Methylcyclohexane	650	U	650	48	ug/Kg	☼	08/03/17 12:53	08/04/17 13:09	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-020

Lab Sample ID: 240-83124-20

Date Collected: 08/01/17 17:15

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 86.4

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	115		64 - 144	08/03/17 12:53	08/04/17 13:09	1
4-Bromofluorobenzene (Surr)	108		58 - 142	08/03/17 12:53	08/04/17 13:09	1
Toluene-d8 (Surr)	108		61 - 137	08/03/17 12:53	08/04/17 13:09	1
Dibromofluoromethane (Surr)	97		31 - 155	08/03/17 12:53	08/04/17 13:09	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-020

Lab Sample ID: 240-83124-20

Date Collected: 08/01/17 17:15

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	60	U F2	60	29	ug/Kg	☼	08/03/17 08:41	08/04/17 23:40	1
Aroclor-1221	60	U	60	28	ug/Kg	☼	08/03/17 08:41	08/04/17 23:40	1
Aroclor-1232	60	U	60	19	ug/Kg	☼	08/03/17 08:41	08/04/17 23:40	1
Aroclor-1242	60	U	60	24	ug/Kg	☼	08/03/17 08:41	08/04/17 23:40	1
Aroclor-1248	60	U	60	20	ug/Kg	☼	08/03/17 08:41	08/04/17 23:40	1
Aroclor-1254	60	U	60	17	ug/Kg	☼	08/03/17 08:41	08/04/17 23:40	1
Aroclor-1260	60	U F2	60	22	ug/Kg	☼	08/03/17 08:41	08/04/17 23:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	54		14 - 128	08/03/17 08:41	08/04/17 23:40	1
DCB Decachlorobiphenyl	67		10 - 132	08/03/17 08:41	08/04/17 23:40	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-020

Lab Sample ID: 240-83124-20

Date Collected: 08/01/17 17:15

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 86.4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	86.4		0.1	0.1	%			08/03/17 08:32	1
Percent Moisture	13.6		0.1	0.1	%			08/03/17 08:32	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-021

Lab Sample ID: 240-83124-21

Date Collected: 08/01/17 17:20

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 77.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1500	U	1500	140	ug/Kg	☼	08/03/17 12:53	08/04/17 14:14	1
Benzene	370	U	370	36	ug/Kg	☼	08/03/17 12:53	08/04/17 14:14	1
Dichlorobromomethane	370	U	370	27	ug/Kg	☼	08/03/17 12:53	08/04/17 14:14	1
Bromoform	370	U	370	34	ug/Kg	☼	08/03/17 12:53	08/04/17 14:14	1
Bromomethane	370	U	370	42	ug/Kg	☼	08/03/17 12:53	08/04/17 14:14	1
2-Butanone (MEK)	1500	U	1500	74	ug/Kg	☼	08/03/17 12:53	08/04/17 14:14	1
Carbon disulfide	370	U	370	27	ug/Kg	☼	08/03/17 12:53	08/04/17 14:14	1
Carbon tetrachloride	370	U	370	40	ug/Kg	☼	08/03/17 12:53	08/04/17 14:14	1
Chlorobenzene	370	U	370	45	ug/Kg	☼	08/03/17 12:53	08/04/17 14:14	1
Chloroethane	370	U	370	42	ug/Kg	☼	08/03/17 12:53	08/04/17 14:14	1
Chloroform	370	U	370	36	ug/Kg	☼	08/03/17 12:53	08/04/17 14:14	1
Chloromethane	370	U	370	27	ug/Kg	☼	08/03/17 12:53	08/04/17 14:14	1
1,1-Dichloroethane	370	U	370	46	ug/Kg	☼	08/03/17 12:53	08/04/17 14:14	1
1,2-Dichloroethane	370	U	370	45	ug/Kg	☼	08/03/17 12:53	08/04/17 14:14	1
1,1-Dichloroethene	370	U	370	54	ug/Kg	☼	08/03/17 12:53	08/04/17 14:14	1
1,2-Dichloropropane	370	U	370	45	ug/Kg	☼	08/03/17 12:53	08/04/17 14:14	1
cis-1,3-Dichloropropene	370	U	370	34	ug/Kg	☼	08/03/17 12:53	08/04/17 14:14	1
trans-1,3-Dichloropropene	370	U	370	22	ug/Kg	☼	08/03/17 12:53	08/04/17 14:14	1
Ethylbenzene	370	U	370	52	ug/Kg	☼	08/03/17 12:53	08/04/17 14:14	1
2-Hexanone	1500	U	1500	130	ug/Kg	☼	08/03/17 12:53	08/04/17 14:14	1
Methylene Chloride	370	U	370	97	ug/Kg	☼	08/03/17 12:53	08/04/17 14:14	1
4-Methyl-2-pentanone (MIBK)	1500	U	1500	60	ug/Kg	☼	08/03/17 12:53	08/04/17 14:14	1
Styrene	370	U	370	15	ug/Kg	☼	08/03/17 12:53	08/04/17 14:14	1
1,1,2,2-Tetrachloroethane	370	U	370	36	ug/Kg	☼	08/03/17 12:53	08/04/17 14:14	1
Tetrachloroethene	370	U	370	31	ug/Kg	☼	08/03/17 12:53	08/04/17 14:14	1
Toluene	370	U	370	36	ug/Kg	☼	08/03/17 12:53	08/04/17 14:14	1
Trichloroethene	370	U	370	55	ug/Kg	☼	08/03/17 12:53	08/04/17 14:14	1
Vinyl chloride	370	U	370	25	ug/Kg	☼	08/03/17 12:53	08/04/17 14:14	1
Xylenes, Total	740	U	740	42	ug/Kg	☼	08/03/17 12:53	08/04/17 14:14	1
1,1,1-Trichloroethane	370	U	370	42	ug/Kg	☼	08/03/17 12:53	08/04/17 14:14	1
1,1,2-Trichloroethane	370	U	370	34	ug/Kg	☼	08/03/17 12:53	08/04/17 14:14	1
Cyclohexane	740	U	740	45	ug/Kg	☼	08/03/17 12:53	08/04/17 14:14	1
1,2-Dibromo-3-Chloropropane	740	U	740	71	ug/Kg	☼	08/03/17 12:53	08/04/17 14:14	1
Ethylene Dibromide	370	U	370	34	ug/Kg	☼	08/03/17 12:53	08/04/17 14:14	1
Dichlorodifluoromethane	370	U	370	33	ug/Kg	☼	08/03/17 12:53	08/04/17 14:14	1
cis-1,2-Dichloroethene	370	U	370	52	ug/Kg	☼	08/03/17 12:53	08/04/17 14:14	1
trans-1,2-Dichloroethene	370	U	370	52	ug/Kg	☼	08/03/17 12:53	08/04/17 14:14	1
Isopropylbenzene	370	U	370	51	ug/Kg	☼	08/03/17 12:53	08/04/17 14:14	1
Methyl acetate	110	J	1900	110	ug/Kg	☼	08/03/17 12:53	08/04/17 14:14	1
Methyl tert-butyl ether	370	U	370	39	ug/Kg	☼	08/03/17 12:53	08/04/17 14:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	370	U	370	34	ug/Kg	☼	08/03/17 12:53	08/04/17 14:14	1
1,2,4-Trichlorobenzene	370	U	370	39	ug/Kg	☼	08/03/17 12:53	08/04/17 14:14	1
1,2-Dichlorobenzene	370	U	370	27	ug/Kg	☼	08/03/17 12:53	08/04/17 14:14	1
1,3-Dichlorobenzene	370	U	370	57	ug/Kg	☼	08/03/17 12:53	08/04/17 14:14	1
1,4-Dichlorobenzene	370	U	370	40	ug/Kg	☼	08/03/17 12:53	08/04/17 14:14	1
Trichlorofluoromethane	370	U	370	51	ug/Kg	☼	08/03/17 12:53	08/04/17 14:14	1
Chlorodibromomethane	370	U	370	51	ug/Kg	☼	08/03/17 12:53	08/04/17 14:14	1
Methylcyclohexane	740	U	740	55	ug/Kg	☼	08/03/17 12:53	08/04/17 14:14	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-021

Lab Sample ID: 240-83124-21

Date Collected: 08/01/17 17:20

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 77.0

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	109		64 - 144	08/03/17 12:53	08/04/17 14:14	1
4-Bromofluorobenzene (Surr)	98		58 - 142	08/03/17 12:53	08/04/17 14:14	1
Toluene-d8 (Surr)	98		61 - 137	08/03/17 12:53	08/04/17 14:14	1
Dibromofluoromethane (Surr)	93		31 - 155	08/03/17 12:53	08/04/17 14:14	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-021

Lab Sample ID: 240-83124-21

Date Collected: 08/01/17 17:20

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 77.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	65	U	65	31	ug/Kg	☼	08/03/17 08:41	08/05/17 00:38	1
Aroclor-1221	65	U	65	30	ug/Kg	☼	08/03/17 08:41	08/05/17 00:38	1
Aroclor-1232	65	U	65	21	ug/Kg	☼	08/03/17 08:41	08/05/17 00:38	1
Aroclor-1242	65	U	65	26	ug/Kg	☼	08/03/17 08:41	08/05/17 00:38	1
Aroclor-1248	65	U	65	22	ug/Kg	☼	08/03/17 08:41	08/05/17 00:38	1
Aroclor-1254	65	U	65	18	ug/Kg	☼	08/03/17 08:41	08/05/17 00:38	1
Aroclor-1260	65	U	65	23	ug/Kg	☼	08/03/17 08:41	08/05/17 00:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	71		14 - 128	08/03/17 08:41	08/05/17 00:38	1
DCB Decachlorobiphenyl	97		10 - 132	08/03/17 08:41	08/05/17 00:38	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-021

Lab Sample ID: 240-83124-21

Date Collected: 08/01/17 17:20

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 77.0

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	77.0		0.1	0.1	%			08/03/17 09:38	1
Percent Moisture	23.0		0.1	0.1	%			08/03/17 09:38	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: TB-12609-080117-SK

Lab Sample ID: 240-83124-23

Date Collected: 08/01/17 00:00

Matrix: Solid

Date Received: 08/02/17 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1000	U	1000	97	ug/Kg		08/03/17 12:53	08/10/17 13:03	1
Benzene	250	U	250	24	ug/Kg		08/03/17 12:53	08/10/17 13:03	1
Dichlorobromomethane	250	U	250	18	ug/Kg		08/03/17 12:53	08/10/17 13:03	1
Bromoform	250	U	250	23	ug/Kg		08/03/17 12:53	08/10/17 13:03	1
Bromomethane	250	U	250	28	ug/Kg		08/03/17 12:53	08/10/17 13:03	1
2-Butanone (MEK)	1000	U	1000	50	ug/Kg		08/03/17 12:53	08/10/17 13:03	1
Carbon disulfide	250	U	250	18	ug/Kg		08/03/17 12:53	08/10/17 13:03	1
Carbon tetrachloride	250	U	250	27	ug/Kg		08/03/17 12:53	08/10/17 13:03	1
Chlorobenzene	250	U	250	30	ug/Kg		08/03/17 12:53	08/10/17 13:03	1
Chloroethane	250	U	250	28	ug/Kg		08/03/17 12:53	08/10/17 13:03	1
Chloroform	250	U	250	24	ug/Kg		08/03/17 12:53	08/10/17 13:03	1
Chloromethane	250	U	250	18	ug/Kg		08/03/17 12:53	08/10/17 13:03	1
1,1-Dichloroethane	250	U	250	31	ug/Kg		08/03/17 12:53	08/10/17 13:03	1
1,2-Dichloroethane	250	U	250	30	ug/Kg		08/03/17 12:53	08/10/17 13:03	1
1,1-Dichloroethene	250	U	250	36	ug/Kg		08/03/17 12:53	08/10/17 13:03	1
1,2-Dichloropropane	250	U	250	30	ug/Kg		08/03/17 12:53	08/10/17 13:03	1
cis-1,3-Dichloropropene	250	U	250	23	ug/Kg		08/03/17 12:53	08/10/17 13:03	1
trans-1,3-Dichloropropene	250	U	250	15	ug/Kg		08/03/17 12:53	08/10/17 13:03	1
Ethylbenzene	250	U	250	35	ug/Kg		08/03/17 12:53	08/10/17 13:03	1
2-Hexanone	1000	U	1000	86	ug/Kg		08/03/17 12:53	08/10/17 13:03	1
Methylene Chloride	250	U	250	65	ug/Kg		08/03/17 12:53	08/10/17 13:03	1
4-Methyl-2-pentanone (MIBK)	1000	U	1000	40	ug/Kg		08/03/17 12:53	08/10/17 13:03	1
Styrene	250	U	250	10	ug/Kg		08/03/17 12:53	08/10/17 13:03	1
1,1,2,2-Tetrachloroethane	250	U	250	24	ug/Kg		08/03/17 12:53	08/10/17 13:03	1
Tetrachloroethene	250	U	250	21	ug/Kg		08/03/17 12:53	08/10/17 13:03	1
Toluene	250	U	250	24	ug/Kg		08/03/17 12:53	08/10/17 13:03	1
Trichloroethene	250	U	250	37	ug/Kg		08/03/17 12:53	08/10/17 13:03	1
Vinyl chloride	250	U	250	17	ug/Kg		08/03/17 12:53	08/10/17 13:03	1
Xylenes, Total	500	U	500	28	ug/Kg		08/03/17 12:53	08/10/17 13:03	1
1,1,1-Trichloroethane	250	U	250	28	ug/Kg		08/03/17 12:53	08/10/17 13:03	1
1,1,2-Trichloroethane	250	U	250	23	ug/Kg		08/03/17 12:53	08/10/17 13:03	1
Cyclohexane	500	U	500	30	ug/Kg		08/03/17 12:53	08/10/17 13:03	1
1,2-Dibromo-3-Chloropropane	500	U	500	48	ug/Kg		08/03/17 12:53	08/10/17 13:03	1
Ethylene Dibromide	250	U	250	23	ug/Kg		08/03/17 12:53	08/10/17 13:03	1
Dichlorodifluoromethane	250	U	250	22	ug/Kg		08/03/17 12:53	08/10/17 13:03	1
cis-1,2-Dichloroethene	250	U	250	35	ug/Kg		08/03/17 12:53	08/10/17 13:03	1
trans-1,2-Dichloroethene	250	U	250	35	ug/Kg		08/03/17 12:53	08/10/17 13:03	1
Isopropylbenzene	250	U	250	34	ug/Kg		08/03/17 12:53	08/10/17 13:03	1
Methyl acetate	1300	U	1300	75	ug/Kg		08/03/17 12:53	08/10/17 13:03	1
Methyl tert-butyl ether	250	U	250	26	ug/Kg		08/03/17 12:53	08/10/17 13:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	250	U	250	23	ug/Kg		08/03/17 12:53	08/10/17 13:03	1
1,2,4-Trichlorobenzene	250	U	250	26	ug/Kg		08/03/17 12:53	08/10/17 13:03	1
1,2-Dichlorobenzene	250	U	250	18	ug/Kg		08/03/17 12:53	08/10/17 13:03	1
1,3-Dichlorobenzene	250	U	250	38	ug/Kg		08/03/17 12:53	08/10/17 13:03	1
1,4-Dichlorobenzene	250	U	250	27	ug/Kg		08/03/17 12:53	08/10/17 13:03	1
Trichlorofluoromethane	250	U	250	34	ug/Kg		08/03/17 12:53	08/10/17 13:03	1
Chlorodibromomethane	250	U	250	34	ug/Kg		08/03/17 12:53	08/10/17 13:03	1
Methylcyclohexane	500	U	500	37	ug/Kg		08/03/17 12:53	08/10/17 13:03	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: TB-12609-080117-SK

Lab Sample ID: 240-83124-23

Date Collected: 08/01/17 00:00

Matrix: Solid

Date Received: 08/02/17 09:30

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	106		64 - 144	08/03/17 12:53	08/10/17 13:03	1
4-Bromofluorobenzene (Surr)	101		58 - 142	08/03/17 12:53	08/10/17 13:03	1
Toluene-d8 (Surr)	98		61 - 137	08/03/17 12:53	08/10/17 13:03	1
Dibromofluoromethane (Surr)	91		31 - 155	08/03/17 12:53	08/10/17 13:03	1

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (64-144)	BFB (58-142)	TOL (61-137)	DBFM (31-155)
240-83124-1	S-12609-073117-SK-001	113	119	114	105
240-83124-2	S-12609-073117-SK-002	139	152 X	141 X	129
240-83124-3	S-12609-073117-SK-003	143	146 X	135	123
240-83124-4	S-12609-073117-SK-004	115	103	109	108
240-83124-5	S-12609-073117-SK-005	124	121	119	113
240-83124-6	S-12609-073117-SK-006	136	136	134	121
240-83124-7	S-12609-073117-SK-007	153 X	148 X	144 X	133
240-83124-8	S-12609-073117-SK-008	113	107	109	102
240-83124-9	S-12609-080117-SK-009	127	126	120	112
240-83124-10	S-12609-080117-SK-010	115	100	97	92
240-83124-11	S-12609-080117-SK-011	121	117	119	111
240-83124-12	S-12609-080117-SK-012	148 X	136	135	130
240-83124-13	S-12609-080117-SK-013	118	112	109	100
240-83124-14	S-12609-080117-SK-014	123	118	115	105
240-83124-15	S-12609-080117-SK-015	111	106	106	96
240-83124-16	S-12609-080117-SK-016	118	113	111	101
240-83124-17	S-12609-080117-SK-017	113	105	103	96
240-83124-18	S-12609-080117-SK-018	130	122	121	109
240-83124-19	S-12609-080117-SK-019	113	102	102	93
240-83124-20	S-12609-080117-SK-020	115	108	108	97
240-83124-20 MS	S-12609-080117-SK-020	119	112	107	110
240-83124-20 MSD	S-12609-080117-SK-020	107	106	102	102
240-83124-21	S-12609-080117-SK-021	109	98	98	93
240-83124-23	TB-12609-080117-SK	106	101	98	91
LCS 240-289815/2-A	Lab Control Sample	91	96	91	86
LCS 240-289858/2-A	Lab Control Sample	95	90	87	86
MB 240-289815/1-A	Method Blank	89	88	85	78
MB 240-289858/1-A	Method Blank	77	70	69	60

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX2 (14-128)	DCB2 (10-132)
240-83124-1	S-12609-073117-SK-001	70	65
LCS 240-289798/24-A	Lab Control Sample	72	90
MB 240-289798/23-A	Method Blank	68	87

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

TestAmerica Canton

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX1 (14-128)	DCB1 (10-132)
240-83124-2	S-12609-073117-SK-002	69	79
240-83124-3	S-12609-073117-SK-003	59	83
240-83124-4	S-12609-073117-SK-004	71	98
240-83124-5	S-12609-073117-SK-005	70	97
240-83124-6	S-12609-073117-SK-006	60	91
240-83124-7	S-12609-073117-SK-007	75	100
240-83124-8	S-12609-073117-SK-008	66	103
240-83124-9	S-12609-080117-SK-009	70	101
240-83124-10	S-12609-080117-SK-010	71	96
240-83124-11	S-12609-080117-SK-011	49	71
240-83124-12	S-12609-080117-SK-012	71	81
240-83124-13	S-12609-080117-SK-013	74	100
240-83124-14	S-12609-080117-SK-014	74	102
240-83124-15	S-12609-080117-SK-015	80	105
240-83124-16	S-12609-080117-SK-016	64	77
240-83124-17	S-12609-080117-SK-017	86	106
240-83124-18	S-12609-080117-SK-018	57	95
240-83124-19	S-12609-080117-SK-019	70	97
240-83124-20	S-12609-080117-SK-020	54	67
240-83124-20 MS	S-12609-080117-SK-020	53	75
240-83124-20 MSD	S-12609-080117-SK-020	80	100
240-83124-21	S-12609-080117-SK-021	71	97
LCS 240-289777/24-A	Lab Control Sample	70	99
MB 240-289777/23-A	Method Blank	66	103

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

QC Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

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

Lab Sample ID: MB 240-289815/1-A

Matrix: Solid

Analysis Batch: 289905

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 289815

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1000	U	1000	97	ug/Kg		08/03/17 10:29	08/04/17 03:29	1
Benzene	250	U	250	24	ug/Kg		08/03/17 10:29	08/04/17 03:29	1
Dichlorobromomethane	250	U	250	18	ug/Kg		08/03/17 10:29	08/04/17 03:29	1
Bromoform	250	U	250	23	ug/Kg		08/03/17 10:29	08/04/17 03:29	1
Bromomethane	250	U	250	28	ug/Kg		08/03/17 10:29	08/04/17 03:29	1
2-Butanone (MEK)	1000	U	1000	50	ug/Kg		08/03/17 10:29	08/04/17 03:29	1
Carbon disulfide	250	U	250	18	ug/Kg		08/03/17 10:29	08/04/17 03:29	1
Carbon tetrachloride	250	U	250	27	ug/Kg		08/03/17 10:29	08/04/17 03:29	1
Chlorobenzene	250	U	250	30	ug/Kg		08/03/17 10:29	08/04/17 03:29	1
Chloroethane	250	U	250	28	ug/Kg		08/03/17 10:29	08/04/17 03:29	1
Chloroform	250	U	250	24	ug/Kg		08/03/17 10:29	08/04/17 03:29	1
Chloromethane	250	U	250	18	ug/Kg		08/03/17 10:29	08/04/17 03:29	1
1,1-Dichloroethane	250	U	250	31	ug/Kg		08/03/17 10:29	08/04/17 03:29	1
1,2-Dichloroethane	250	U	250	30	ug/Kg		08/03/17 10:29	08/04/17 03:29	1
1,1-Dichloroethene	250	U	250	36	ug/Kg		08/03/17 10:29	08/04/17 03:29	1
1,2-Dichloropropane	250	U	250	30	ug/Kg		08/03/17 10:29	08/04/17 03:29	1
cis-1,3-Dichloropropene	250	U	250	23	ug/Kg		08/03/17 10:29	08/04/17 03:29	1
trans-1,3-Dichloropropene	250	U	250	15	ug/Kg		08/03/17 10:29	08/04/17 03:29	1
Ethylbenzene	250	U	250	35	ug/Kg		08/03/17 10:29	08/04/17 03:29	1
2-Hexanone	1000	U	1000	86	ug/Kg		08/03/17 10:29	08/04/17 03:29	1
Methylene Chloride	250	U	250	65	ug/Kg		08/03/17 10:29	08/04/17 03:29	1
4-Methyl-2-pentanone (MIBK)	1000	U	1000	40	ug/Kg		08/03/17 10:29	08/04/17 03:29	1
Styrene	250	U	250	10	ug/Kg		08/03/17 10:29	08/04/17 03:29	1
1,1,2,2-Tetrachloroethane	250	U	250	24	ug/Kg		08/03/17 10:29	08/04/17 03:29	1
Tetrachloroethene	250	U	250	21	ug/Kg		08/03/17 10:29	08/04/17 03:29	1
Toluene	250	U	250	24	ug/Kg		08/03/17 10:29	08/04/17 03:29	1
Trichloroethene	250	U	250	37	ug/Kg		08/03/17 10:29	08/04/17 03:29	1
Vinyl chloride	250	U	250	17	ug/Kg		08/03/17 10:29	08/04/17 03:29	1
Xylenes, Total	500	U	500	28	ug/Kg		08/03/17 10:29	08/04/17 03:29	1
1,1,1-Trichloroethane	250	U	250	28	ug/Kg		08/03/17 10:29	08/04/17 03:29	1
1,1,2-Trichloroethane	250	U	250	23	ug/Kg		08/03/17 10:29	08/04/17 03:29	1
Cyclohexane	500	U	500	30	ug/Kg		08/03/17 10:29	08/04/17 03:29	1
1,2-Dibromo-3-Chloropropane	500	U	500	48	ug/Kg		08/03/17 10:29	08/04/17 03:29	1
Ethylene Dibromide	250	U	250	23	ug/Kg		08/03/17 10:29	08/04/17 03:29	1
Dichlorodifluoromethane	250	U	250	22	ug/Kg		08/03/17 10:29	08/04/17 03:29	1
cis-1,2-Dichloroethene	250	U	250	35	ug/Kg		08/03/17 10:29	08/04/17 03:29	1
trans-1,2-Dichloroethene	250	U	250	35	ug/Kg		08/03/17 10:29	08/04/17 03:29	1
Isopropylbenzene	250	U	250	34	ug/Kg		08/03/17 10:29	08/04/17 03:29	1
Methyl acetate	1300	U	1300	75	ug/Kg		08/03/17 10:29	08/04/17 03:29	1
Methyl tert-butyl ether	250	U	250	26	ug/Kg		08/03/17 10:29	08/04/17 03:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	250	U	250	23	ug/Kg		08/03/17 10:29	08/04/17 03:29	1
1,2,4-Trichlorobenzene	250	U	250	26	ug/Kg		08/03/17 10:29	08/04/17 03:29	1
1,2-Dichlorobenzene	250	U	250	18	ug/Kg		08/03/17 10:29	08/04/17 03:29	1
1,3-Dichlorobenzene	250	U	250	38	ug/Kg		08/03/17 10:29	08/04/17 03:29	1
1,4-Dichlorobenzene	250	U	250	27	ug/Kg		08/03/17 10:29	08/04/17 03:29	1
Trichlorofluoromethane	250	U	250	34	ug/Kg		08/03/17 10:29	08/04/17 03:29	1
Chlorodibromomethane	250	U	250	34	ug/Kg		08/03/17 10:29	08/04/17 03:29	1
Methylcyclohexane	500	U	500	37	ug/Kg		08/03/17 10:29	08/04/17 03:29	1

TestAmerica Canton

QC Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		64 - 144	08/03/17 10:29	08/04/17 03:29	1
4-Bromofluorobenzene (Surr)	88		58 - 142	08/03/17 10:29	08/04/17 03:29	1
Toluene-d8 (Surr)	85		61 - 137	08/03/17 10:29	08/04/17 03:29	1
Dibromofluoromethane (Surr)	78		31 - 155	08/03/17 10:29	08/04/17 03:29	1

Lab Sample ID: LCS 240-289815/2-A
Matrix: Solid
Analysis Batch: 289905

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 289815
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acetone	2000	1690		ug/Kg		85	24 - 125
Benzene	1000	988		ug/Kg		99	77 - 120
Dichlorobromomethane	1000	891		ug/Kg		89	61 - 132
Bromoform	1000	751		ug/Kg		75	40 - 140
Bromomethane	1000	769		ug/Kg		77	10 - 153
2-Butanone (MEK)	2000	1700		ug/Kg		85	51 - 120
Carbon disulfide	1000	740		ug/Kg		74	17 - 163
Carbon tetrachloride	1000	874		ug/Kg		87	43 - 144
Chlorobenzene	1000	1010		ug/Kg		101	76 - 120
Chloroethane	1000	755		ug/Kg		75	10 - 166
Chloroform	1000	935		ug/Kg		93	74 - 120
Chloromethane	1000	947		ug/Kg		95	41 - 124
1,1-Dichloroethane	1000	996		ug/Kg		100	72 - 120
1,2-Dichloroethane	1000	967		ug/Kg		97	71 - 120
1,1-Dichloroethene	1000	926		ug/Kg		93	58 - 130
1,2-Dichloropropane	1000	1070		ug/Kg		107	78 - 122
cis-1,3-Dichloropropene	1000	890		ug/Kg		89	66 - 126
trans-1,3-Dichloropropene	1000	774		ug/Kg		77	55 - 121
Ethylbenzene	1000	999		ug/Kg		100	76 - 120
2-Hexanone	2000	1830		ug/Kg		91	52 - 129
Methylene Chloride	1000	951		ug/Kg		95	64 - 126
4-Methyl-2-pentanone (MIBK)	2000	1900		ug/Kg		95	65 - 131
Styrene	1000	983		ug/Kg		98	80 - 120
1,1,2,2-Tetrachloroethane	1000	949		ug/Kg		95	78 - 120
Tetrachloroethene	1000	1030		ug/Kg		103	68 - 122
Toluene	1000	997		ug/Kg		100	74 - 120
Trichloroethene	1000	970		ug/Kg		97	73 - 123
Vinyl chloride	1000	912		ug/Kg		91	49 - 131
Xylenes, Total	2000	2040		ug/Kg		102	78 - 120
1,1,1-Trichloroethane	1000	927		ug/Kg		93	60 - 136
1,1,2-Trichloroethane	1000	980		ug/Kg		98	80 - 120
Cyclohexane	1000	1100		ug/Kg		110	66 - 129
1,2-Dibromo-3-Chloropropane	1000	677		ug/Kg		68	40 - 133
Ethylene Dibromide	1000	934		ug/Kg		93	80 - 120
Dichlorodifluoromethane	1000	611		ug/Kg		61	15 - 127
cis-1,2-Dichloroethene	1000	974		ug/Kg		97	78 - 120
trans-1,2-Dichloroethene	1000	992		ug/Kg		99	74 - 124
Isopropylbenzene	1000	1050		ug/Kg		105	76 - 124
Methyl acetate	2000	1950		ug/Kg		97	63 - 126
Methyl tert-butyl ether	1000	929		ug/Kg		93	68 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane	1000	1020		ug/Kg		102	64 - 125
1,2,4-Trichlorobenzene	1000	929		ug/Kg		93	60 - 124
1,2-Dichlorobenzene	1000	979		ug/Kg		98	75 - 120

TestAmerica Canton

QC Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

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

Lab Sample ID: LCS 240-289815/2-A

Matrix: Solid

Analysis Batch: 289905

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 289815

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichlorobenzene	1000	1020		ug/Kg		102	72 - 120
1,4-Dichlorobenzene	1000	982		ug/Kg		98	71 - 120
Trichlorofluoromethane	1000	821		ug/Kg		82	28 - 152
Chlorodibromomethane	1000	799		ug/Kg		80	46 - 125
Methylcyclohexane	1000	1000		ug/Kg		100	71 - 126
m-Xylene & p-Xylene	1000	1030		ug/Kg		103	78 - 120
o-Xylene	1000	1010		ug/Kg		101	77 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		64 - 144
4-Bromofluorobenzene (Surr)	96		58 - 142
Toluene-d8 (Surr)	91		61 - 137
Dibromofluoromethane (Surr)	86		31 - 155

Lab Sample ID: MB 240-289858/1-A

Matrix: Solid

Analysis Batch: 289905

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 289858

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1000	U	1000	97	ug/Kg		08/03/17 12:53	08/04/17 12:26	1
Benzene	250	U	250	24	ug/Kg		08/03/17 12:53	08/04/17 12:26	1
Dichlorobromomethane	250	U	250	18	ug/Kg		08/03/17 12:53	08/04/17 12:26	1
Bromoform	250	U	250	23	ug/Kg		08/03/17 12:53	08/04/17 12:26	1
Bromomethane	250	U	250	28	ug/Kg		08/03/17 12:53	08/04/17 12:26	1
2-Butanone (MEK)	1000	U	1000	50	ug/Kg		08/03/17 12:53	08/04/17 12:26	1
Carbon disulfide	250	U	250	18	ug/Kg		08/03/17 12:53	08/04/17 12:26	1
Carbon tetrachloride	250	U	250	27	ug/Kg		08/03/17 12:53	08/04/17 12:26	1
Chlorobenzene	250	U	250	30	ug/Kg		08/03/17 12:53	08/04/17 12:26	1
Chloroethane	250	U	250	28	ug/Kg		08/03/17 12:53	08/04/17 12:26	1
Chloroform	250	U	250	24	ug/Kg		08/03/17 12:53	08/04/17 12:26	1
Chloromethane	250	U	250	18	ug/Kg		08/03/17 12:53	08/04/17 12:26	1
1,1-Dichloroethane	250	U	250	31	ug/Kg		08/03/17 12:53	08/04/17 12:26	1
1,2-Dichloroethane	250	U	250	30	ug/Kg		08/03/17 12:53	08/04/17 12:26	1
1,1-Dichloroethene	250	U	250	36	ug/Kg		08/03/17 12:53	08/04/17 12:26	1
1,2-Dichloropropane	250	U	250	30	ug/Kg		08/03/17 12:53	08/04/17 12:26	1
cis-1,3-Dichloropropene	250	U	250	23	ug/Kg		08/03/17 12:53	08/04/17 12:26	1
trans-1,3-Dichloropropene	250	U	250	15	ug/Kg		08/03/17 12:53	08/04/17 12:26	1
Ethylbenzene	250	U	250	35	ug/Kg		08/03/17 12:53	08/04/17 12:26	1
2-Hexanone	1000	U	1000	86	ug/Kg		08/03/17 12:53	08/04/17 12:26	1
Methylene Chloride	250	U	250	65	ug/Kg		08/03/17 12:53	08/04/17 12:26	1
4-Methyl-2-pentanone (MIBK)	1000	U	1000	40	ug/Kg		08/03/17 12:53	08/04/17 12:26	1
Styrene	250	U	250	10	ug/Kg		08/03/17 12:53	08/04/17 12:26	1
1,1,1,2-Tetrachloroethane	250	U	250	24	ug/Kg		08/03/17 12:53	08/04/17 12:26	1
Tetrachloroethene	250	U	250	21	ug/Kg		08/03/17 12:53	08/04/17 12:26	1
Toluene	250	U	250	24	ug/Kg		08/03/17 12:53	08/04/17 12:26	1
Trichloroethene	250	U	250	37	ug/Kg		08/03/17 12:53	08/04/17 12:26	1
Vinyl chloride	250	U	250	17	ug/Kg		08/03/17 12:53	08/04/17 12:26	1
Xylenes, Total	500	U	500	28	ug/Kg		08/03/17 12:53	08/04/17 12:26	1

TestAmerica Canton

QC Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

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

Lab Sample ID: MB 240-289858/1-A

Matrix: Solid

Analysis Batch: 289905

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 289858

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	250	U	250	28	ug/Kg		08/03/17 12:53	08/04/17 12:26	1
1,1,2-Trichloroethane	250	U	250	23	ug/Kg		08/03/17 12:53	08/04/17 12:26	1
Cyclohexane	500	U	500	30	ug/Kg		08/03/17 12:53	08/04/17 12:26	1
1,2-Dibromo-3-Chloropropane	500	U	500	48	ug/Kg		08/03/17 12:53	08/04/17 12:26	1
Ethylene Dibromide	250	U	250	23	ug/Kg		08/03/17 12:53	08/04/17 12:26	1
Dichlorodifluoromethane	250	U	250	22	ug/Kg		08/03/17 12:53	08/04/17 12:26	1
cis-1,2-Dichloroethene	250	U	250	35	ug/Kg		08/03/17 12:53	08/04/17 12:26	1
trans-1,2-Dichloroethene	250	U	250	35	ug/Kg		08/03/17 12:53	08/04/17 12:26	1
Isopropylbenzene	250	U	250	34	ug/Kg		08/03/17 12:53	08/04/17 12:26	1
Methyl acetate	1300	U	1300	75	ug/Kg		08/03/17 12:53	08/04/17 12:26	1
Methyl tert-butyl ether	250	U	250	26	ug/Kg		08/03/17 12:53	08/04/17 12:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	250	U	250	23	ug/Kg		08/03/17 12:53	08/04/17 12:26	1
1,2,4-Trichlorobenzene	250	U	250	26	ug/Kg		08/03/17 12:53	08/04/17 12:26	1
1,2-Dichlorobenzene	250	U	250	18	ug/Kg		08/03/17 12:53	08/04/17 12:26	1
1,3-Dichlorobenzene	250	U	250	38	ug/Kg		08/03/17 12:53	08/04/17 12:26	1
1,4-Dichlorobenzene	250	U	250	27	ug/Kg		08/03/17 12:53	08/04/17 12:26	1
Trichlorofluoromethane	250	U	250	34	ug/Kg		08/03/17 12:53	08/04/17 12:26	1
Chlorodibromomethane	250	U	250	34	ug/Kg		08/03/17 12:53	08/04/17 12:26	1
Methylcyclohexane	500	U	500	37	ug/Kg		08/03/17 12:53	08/04/17 12:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	77		64 - 144	08/03/17 12:53	08/04/17 12:26	1
4-Bromofluorobenzene (Surr)	70		58 - 142	08/03/17 12:53	08/04/17 12:26	1
Toluene-d8 (Surr)	69		61 - 137	08/03/17 12:53	08/04/17 12:26	1
Dibromofluoromethane (Surr)	60		31 - 155	08/03/17 12:53	08/04/17 12:26	1

Lab Sample ID: LCS 240-289858/2-A

Matrix: Solid

Analysis Batch: 289905

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 289858

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acetone	2000	1960		ug/Kg		98	24 - 125
Benzene	1000	972		ug/Kg		97	77 - 120
Dichlorobromomethane	1000	805		ug/Kg		81	61 - 132
Bromoform	1000	684		ug/Kg		68	40 - 140
Bromomethane	1000	664		ug/Kg		66	10 - 153
2-Butanone (MEK)	2000	1890		ug/Kg		95	51 - 120
Carbon disulfide	1000	626		ug/Kg		63	17 - 163
Carbon tetrachloride	1000	668		ug/Kg		67	43 - 144
Chlorobenzene	1000	984		ug/Kg		98	76 - 120
Chloroethane	1000	644		ug/Kg		64	10 - 166
Chloroform	1000	939		ug/Kg		94	74 - 120
Chloromethane	1000	794		ug/Kg		79	41 - 124
1,1-Dichloroethane	1000	963		ug/Kg		96	72 - 120
1,2-Dichloroethane	1000	1030		ug/Kg		103	71 - 120
1,1-Dichloroethene	1000	858		ug/Kg		86	58 - 130
1,2-Dichloropropane	1000	1050		ug/Kg		105	78 - 122
cis-1,3-Dichloropropene	1000	821		ug/Kg		82	66 - 126

TestAmerica Canton

QC Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

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

Lab Sample ID: LCS 240-289858/2-A

Matrix: Solid

Analysis Batch: 289905

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 289858

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,3-Dichloropropene	1000	709		ug/Kg		71	55 - 121
Ethylbenzene	1000	909		ug/Kg		91	76 - 120
2-Hexanone	2000	1970		ug/Kg		98	52 - 129
Methylene Chloride	1000	957		ug/Kg		96	64 - 126
4-Methyl-2-pentanone (MIBK)	2000	2040		ug/Kg		102	65 - 131
Styrene	1000	942		ug/Kg		94	80 - 120
1,1,2,2-Tetrachloroethane	1000	1010		ug/Kg		101	78 - 120
Tetrachloroethene	1000	958		ug/Kg		96	68 - 122
Toluene	1000	971		ug/Kg		97	74 - 120
Trichloroethene	1000	906		ug/Kg		91	73 - 123
Vinyl chloride	1000	770		ug/Kg		77	49 - 131
Xylenes, Total	2000	1950		ug/Kg		98	78 - 120
1,1,1-Trichloroethane	1000	816		ug/Kg		82	60 - 136
1,1,2-Trichloroethane	1000	1020		ug/Kg		102	80 - 120
Cyclohexane	1000	968		ug/Kg		97	66 - 129
1,2-Dibromo-3-Chloropropane	1000	603		ug/Kg		60	40 - 133
Ethylene Dibromide	1000	979		ug/Kg		98	80 - 120
Dichlorodifluoromethane	1000	497		ug/Kg		50	15 - 127
cis-1,2-Dichloroethene	1000	953		ug/Kg		95	78 - 120
trans-1,2-Dichloroethene	1000	950		ug/Kg		95	74 - 124
Isopropylbenzene	1000	965		ug/Kg		96	76 - 124
Methyl acetate	2000	2240		ug/Kg		112	63 - 126
Methyl tert-butyl ether	1000	1020		ug/Kg		102	68 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane	1000	840		ug/Kg		84	64 - 125
1,2,4-Trichlorobenzene	1000	774		ug/Kg		77	60 - 124
1,2-Dichlorobenzene	1000	964		ug/Kg		96	75 - 120
1,3-Dichlorobenzene	1000	960		ug/Kg		96	72 - 120
1,4-Dichlorobenzene	1000	919		ug/Kg		92	71 - 120
Trichlorofluoromethane	1000	665		ug/Kg		66	28 - 152
Chlorodibromomethane	1000	746		ug/Kg		75	46 - 125
Methylcyclohexane	1000	850		ug/Kg		85	71 - 126
m-Xylene & p-Xylene	1000	963		ug/Kg		96	78 - 120
o-Xylene	1000	990		ug/Kg		99	77 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		64 - 144
4-Bromofluorobenzene (Surr)	90		58 - 142
Toluene-d8 (Surr)	87		61 - 137
Dibromofluoromethane (Surr)	86		31 - 155

Lab Sample ID: 240-83124-20 MS

Matrix: Solid

Analysis Batch: 289905

Client Sample ID: S-12609-080117-SK-020

Prep Type: Total/NA

Prep Batch: 289858

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	1300	U F1	2340	3060	F1	ug/Kg	☼	131	15 - 127
Benzene	330	U	1170	1430		ug/Kg	☼	122	33 - 127

TestAmerica Canton

QC Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

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

Lab Sample ID: 240-83124-20 MS

Matrix: Solid

Analysis Batch: 289905

Client Sample ID: S-12609-080117-SK-020

Prep Type: Total/NA

Prep Batch: 289858

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Dichlorobromomethane	330	U	1170	1300		ug/Kg	☼	111	22 - 127
Bromoform	330	U	1170	1040		ug/Kg	☼	89	10 - 120
Bromomethane	330	U	1170	1010		ug/Kg	☼	87	13 - 138
2-Butanone (MEK)	1300	U	2340	2790		ug/Kg	☼	119	29 - 127
Carbon disulfide	330	U	1170	940		ug/Kg	☼	80	15 - 131
Carbon tetrachloride	330	U	1170	981		ug/Kg	☼	84	17 - 127
Chlorobenzene	330	U	1170	1430		ug/Kg	☼	122	15 - 122
Chloroethane	330	U	1170	1040		ug/Kg	☼	89	15 - 148
Chloroform	330	U	1170	1400		ug/Kg	☼	119	41 - 121
Chloromethane	330	U	1170	1280		ug/Kg	☼	109	33 - 122
1,1-Dichloroethane	330	U F1	1170	1450	F1	ug/Kg	☼	123	41 - 122
1,2-Dichloroethane	330	U F1	1170	1500	F1	ug/Kg	☼	128	35 - 122
1,1-Dichloroethene	330	U	1170	1200		ug/Kg	☼	102	30 - 139
1,2-Dichloropropane	330	U F1	1170	1610	F1	ug/Kg	☼	138	38 - 130
cis-1,3-Dichloropropene	330	U	1170	1280		ug/Kg	☼	110	13 - 127
trans-1,3-Dichloropropene	330	U	1170	1100		ug/Kg	☼	94	11 - 120
Ethylbenzene	330	U	1170	1370		ug/Kg	☼	117	18 - 126
2-Hexanone	1300	U	2340	2950		ug/Kg	☼	126	21 - 136
Methylene Chloride	330	U	1170	1450		ug/Kg	☼	124	34 - 134
4-Methyl-2-pentanone (MIBK)	1300	U	2340	3000		ug/Kg	☼	128	16 - 164
Styrene	330	U	1170	1420		ug/Kg	☼	121	10 - 128
1,1,2,2-Tetrachloroethane	330	U	1170	1470		ug/Kg	☼	125	16 - 157
Tetrachloroethene	330	U	1170	1340		ug/Kg	☼	115	17 - 126
Toluene	330	U	1170	1410		ug/Kg	☼	120	29 - 127
Trichloroethene	330	U	1170	1320		ug/Kg	☼	112	10 - 160
Vinyl chloride	330	U	1170	1190		ug/Kg	☼	101	31 - 134
Xylenes, Total	650	U	2340	2870		ug/Kg	☼	123	10 - 137
1,1,1-Trichloroethane	330	U	1170	1230		ug/Kg	☼	105	33 - 130
1,1,2-Trichloroethane	330	U	1170	1500		ug/Kg	☼	128	19 - 137
Cyclohexane	650	U	1170	1340		ug/Kg	☼	114	22 - 135
1,2-Dibromo-3-Chloropropane	650	U	1170	874		ug/Kg	☼	75	10 - 128
Ethylene Dibromide	330	U	1170	1480		ug/Kg	☼	126	25 - 137
Dichlorodifluoromethane	330	U	1170	709		ug/Kg	☼	61	10 - 126
cis-1,2-Dichloroethene	330	U F1	1170	1410	F1	ug/Kg	☼	121	46 - 120
trans-1,2-Dichloroethene	330	U	1170	1370		ug/Kg	☼	117	32 - 134
Isopropylbenzene	330	U	1170	1420		ug/Kg	☼	122	10 - 128
Methyl acetate	1600	U	2340	3260		ug/Kg	☼	139	14 - 151
Methyl tert-butyl ether	330	U	1170	1550		ug/Kg	☼	132	49 - 134
1,1,2-Trichloro-1,2,2-trifluoroethane	330	U	1170	1160		ug/Kg	☼	99	26 - 130
1,2,4-Trichlorobenzene	330	U	1170	1120		ug/Kg	☼	96	10 - 120
1,2-Dichlorobenzene	330	U	1170	1410		ug/Kg	☼	120	10 - 120
1,3-Dichlorobenzene	330	U	1170	1360		ug/Kg	☼	117	10 - 120
1,4-Dichlorobenzene	330	U	1170	1330		ug/Kg	☼	114	10 - 120
Trichlorofluoromethane	330	U	1170	996		ug/Kg	☼	85	24 - 137
Chlorodibromomethane	330	U	1170	1170		ug/Kg	☼	100	19 - 120
Methylcyclohexane	650	U	1170	1170		ug/Kg	☼	100	13 - 134
m-Xylene & p-Xylene	330	U	1170	1430		ug/Kg	☼	122	10 - 136

TestAmerica Canton

QC Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

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

Lab Sample ID: 240-83124-20 MS

Matrix: Solid

Analysis Batch: 289905

Client Sample ID: S-12609-080117-SK-020

Prep Type: Total/NA

Prep Batch: 289858

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	330	U	1170	1440		ug/Kg	☼	123	17 - 128
Surrogate	MS %Recovery	MS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	119		64 - 144						
4-Bromofluorobenzene (Surr)	112		58 - 142						
Toluene-d8 (Surr)	107		61 - 137						
Dibromofluoromethane (Surr)	110		31 - 155						

Lab Sample ID: 240-83124-20 MSD

Matrix: Solid

Analysis Batch: 289905

Client Sample ID: S-12609-080117-SK-020

Prep Type: Total/NA

Prep Batch: 289858

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Acetone	1300	U F1	2550	2760		ug/Kg	☼	108	15 - 127	10	40
Benzene	330	U	1280	1450		ug/Kg	☼	113	33 - 127	1	40
Dichlorobromomethane	330	U	1280	1290		ug/Kg	☼	101	22 - 127	1	40
Bromoform	330	U	1280	1080		ug/Kg	☼	85	10 - 120	4	40
Bromomethane	330	U	1280	988		ug/Kg	☼	77	13 - 138	3	40
2-Butanone (MEK)	1300	U	2550	2700		ug/Kg	☼	106	29 - 127	4	40
Carbon disulfide	330	U	1280	988		ug/Kg	☼	77	15 - 131	5	40
Carbon tetrachloride	330	U	1280	1030		ug/Kg	☼	81	17 - 127	5	40
Chlorobenzene	330	U	1280	1480		ug/Kg	☼	116	15 - 122	3	40
Chloroethane	330	U	1280	1010		ug/Kg	☼	79	15 - 148	3	40
Chloroform	330	U	1280	1420		ug/Kg	☼	111	41 - 121	2	40
Chloromethane	330	U	1280	1240		ug/Kg	☼	97	33 - 122	3	40
1,1-Dichloroethane	330	U F1	1280	1460		ug/Kg	☼	115	41 - 122	1	40
1,2-Dichloroethane	330	U F1	1280	1480		ug/Kg	☼	116	35 - 122	1	40
1,1-Dichloroethene	330	U	1280	1230		ug/Kg	☼	97	30 - 139	3	40
1,2-Dichloropropane	330	U F1	1280	1630		ug/Kg	☼	128	38 - 130	1	40
cis-1,3-Dichloropropene	330	U	1280	1260		ug/Kg	☼	99	13 - 127	2	40
trans-1,3-Dichloropropene	330	U	1280	1180		ug/Kg	☼	92	11 - 120	7	40
Ethylbenzene	330	U	1280	1470		ug/Kg	☼	115	18 - 126	7	40
2-Hexanone	1300	U	2550	3010		ug/Kg	☼	118	21 - 136	2	40
Methylene Chloride	330	U	1280	1490		ug/Kg	☼	117	34 - 134	3	40
4-Methyl-2-pentanone (MIBK)	1300	U	2550	2940		ug/Kg	☼	115	16 - 164	2	40
Styrene	330	U	1280	1430		ug/Kg	☼	112	10 - 128	1	40
1,1,2,2-Tetrachloroethane	330	U	1280	1510		ug/Kg	☼	118	16 - 157	3	40
Tetrachloroethene	330	U	1280	1420		ug/Kg	☼	111	17 - 126	5	40
Toluene	330	U	1280	1490		ug/Kg	☼	116	29 - 127	5	40
Trichloroethene	330	U	1280	1340		ug/Kg	☼	105	10 - 160	2	40
Vinyl chloride	330	U	1280	1150		ug/Kg	☼	90	31 - 134	3	40
Xylenes, Total	650	U	2550	3060		ug/Kg	☼	120	10 - 137	6	40
1,1,1-Trichloroethane	330	U	1280	1250		ug/Kg	☼	98	33 - 130	2	40
1,1,2-Trichloroethane	330	U	1280	1570		ug/Kg	☼	123	19 - 137	4	40
Cyclohexane	650	U	1280	1390		ug/Kg	☼	109	22 - 135	4	40
1,2-Dibromo-3-Chloropropane	650	U	1280	958		ug/Kg	☼	75	10 - 128	9	40
Ethylene Dibromide	330	U	1280	1480		ug/Kg	☼	116	25 - 137	0	40
Dichlorodifluoromethane	330	U	1280	698		ug/Kg	☼	55	10 - 126	2	40

TestAmerica Canton

QC Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

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

Lab Sample ID: 240-83124-20 MSD

Matrix: Solid

Analysis Batch: 289905

Client Sample ID: S-12609-080117-SK-020

Prep Type: Total/NA

Prep Batch: 289858

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	330	U F1	1280	1450		ug/Kg	☼	114	46 - 120	3	40
trans-1,2-Dichloroethene	330	U	1280	1380		ug/Kg	☼	108	32 - 134	1	40
Isopropylbenzene	330	U	1280	1500		ug/Kg	☼	117	10 - 128	5	40
Methyl acetate	1600	U	2550	3390		ug/Kg	☼	133	14 - 151	4	40
Methyl tert-butyl ether	330	U	1280	1560		ug/Kg	☼	122	49 - 134	1	40
1,1,2-Trichloro-1,2,2-trifluoroethane	330	U	1280	1200		ug/Kg	☼	94	26 - 130	3	40
1,2,4-Trichlorobenzene	330	U	1280	1140		ug/Kg	☼	90	10 - 120	2	40
1,2-Dichlorobenzene	330	U	1280	1450		ug/Kg	☼	114	10 - 120	3	40
1,3-Dichlorobenzene	330	U	1280	1420		ug/Kg	☼	111	10 - 120	4	40
1,4-Dichlorobenzene	330	U	1280	1340		ug/Kg	☼	105	10 - 120	1	40
Trichlorofluoromethane	330	U	1280	1010		ug/Kg	☼	79	24 - 137	1	40
Chlorodibromomethane	330	U	1280	1200		ug/Kg	☼	94	19 - 120	2	40
Methylcyclohexane	650	U	1280	1230		ug/Kg	☼	96	13 - 134	4	40
m-Xylene & p-Xylene	330	U	1280	1490		ug/Kg	☼	117	10 - 136	4	40
o-Xylene	330	U	1280	1570		ug/Kg	☼	123	17 - 128	9	40

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		64 - 144
4-Bromofluorobenzene (Surr)	106		58 - 142
Toluene-d8 (Surr)	102		61 - 137
Dibromofluoromethane (Surr)	102		31 - 155

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

Lab Sample ID: MB 240-289777/23-A

Matrix: Solid

Analysis Batch: 290029

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 289777

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	50	U	50	24	ug/Kg		08/03/17 08:41	08/04/17 22:41	1
Aroclor-1221	50	U	50	23	ug/Kg		08/03/17 08:41	08/04/17 22:41	1
Aroclor-1232	50	U	50	16	ug/Kg		08/03/17 08:41	08/04/17 22:41	1
Aroclor-1242	50	U	50	20	ug/Kg		08/03/17 08:41	08/04/17 22:41	1
Aroclor-1248	50	U	50	17	ug/Kg		08/03/17 08:41	08/04/17 22:41	1
Aroclor-1254	50	U	50	14	ug/Kg		08/03/17 08:41	08/04/17 22:41	1
Aroclor-1260	50	U	50	18	ug/Kg		08/03/17 08:41	08/04/17 22:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	66		14 - 128	08/03/17 08:41	08/04/17 22:41	1
DCB Decachlorobiphenyl	103		10 - 132	08/03/17 08:41	08/04/17 22:41	1

Lab Sample ID: LCS 240-289777/24-A

Matrix: Solid

Analysis Batch: 290029

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 289777

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	1000	596		ug/Kg		60	47 - 120

TestAmerica Canton

QC Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

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

Lab Sample ID: LCS 240-289777/24-A

Matrix: Solid

Analysis Batch: 290029

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 289777

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1260	1000	629		ug/Kg		63	46 - 120
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Tetrachloro-m-xylene	70		14 - 128				
DCB Decachlorobiphenyl	99		10 - 132				

Lab Sample ID: 240-83124-20 MS

Matrix: Solid

Analysis Batch: 290029

Client Sample ID: S-12609-080117-SK-020

Prep Type: Total/NA

Prep Batch: 289777

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	60	U F2	1170	496		ug/Kg	☼	42	31 - 120
Aroclor-1260	60	U F2	1170	546		ug/Kg	☼	47	21 - 122
Surrogate	MS %Recovery	MS Qualifier	Limits						
Tetrachloro-m-xylene	53		14 - 128						
DCB Decachlorobiphenyl	75		10 - 132						

Lab Sample ID: 240-83124-20 MSD

Matrix: Solid

Analysis Batch: 290029

Client Sample ID: S-12609-080117-SK-020

Prep Type: Total/NA

Prep Batch: 289777

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Aroclor-1016	60	U F2	1210	785	F2	ug/Kg	☼	65	31 - 120	45	30
Aroclor-1260	60	U F2	1210	784	F2	ug/Kg	☼	65	21 - 122	38	30
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
Tetrachloro-m-xylene	80		14 - 128								
DCB Decachlorobiphenyl	100		10 - 132								

Lab Sample ID: MB 240-289798/23-A

Matrix: Solid

Analysis Batch: 290058

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 289798

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	50	U	50	24	ug/Kg		08/03/17 09:51	08/05/17 10:13	1
Aroclor-1221	50	U	50	23	ug/Kg		08/03/17 09:51	08/05/17 10:13	1
Aroclor-1232	50	U	50	16	ug/Kg		08/03/17 09:51	08/05/17 10:13	1
Aroclor-1242	50	U	50	20	ug/Kg		08/03/17 09:51	08/05/17 10:13	1
Aroclor-1248	50	U	50	17	ug/Kg		08/03/17 09:51	08/05/17 10:13	1
Aroclor-1254	50	U	50	14	ug/Kg		08/03/17 09:51	08/05/17 10:13	1
Aroclor-1260	50	U	50	18	ug/Kg		08/03/17 09:51	08/05/17 10:13	1
Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac			
Tetrachloro-m-xylene	68		14 - 128	08/03/17 09:51	08/05/17 10:13	1			
DCB Decachlorobiphenyl	87		10 - 132	08/03/17 09:51	08/05/17 10:13	1			

TestAmerica Canton

QC Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

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

Lab Sample ID: LCS 240-289798/24-A

Matrix: Solid

Analysis Batch: 290058

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 289798

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	1000	711		ug/Kg		71	47 - 120
Aroclor-1260	1000	753		ug/Kg		75	46 - 120
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Tetrachloro-m-xylene	72		14 - 128				
DCB Decachlorobiphenyl	90		10 - 132				

Method: Moisture - Percent Moisture

Lab Sample ID: 240-83124-7 DU

Matrix: Solid

Analysis Batch: 289775

Client Sample ID: S-12609-073117-SK-007

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Percent Solids	79.4		79.8		%		0.5	20
Percent Moisture	20.6		20.2		%		2	20

Lab Sample ID: 240-83124-19 DU

Matrix: Solid

Analysis Batch: 289775

Client Sample ID: S-12609-080117-SK-019

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Percent Solids	77.2		78.9		%		2	20
Percent Moisture	22.8		21.1		%		8	20

Lab Sample ID: 240-83124-20 DU

Matrix: Solid

Analysis Batch: 289775

Client Sample ID: S-12609-080117-SK-020

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Percent Solids	86.4		81.7		%		6	20
Percent Moisture	13.6		18.3	F3	%		30	20

Lab Sample ID: 240-83124-21 DU

Matrix: Solid

Analysis Batch: 289775

Client Sample ID: S-12609-080117-SK-021

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Percent Solids	77.0		77.7		%		0.9	20
Percent Moisture	23.0		22.3		%		3	20

TestAmerica Canton

QC Association Summary

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

GC/MS VOA

Prep Batch: 289815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-83124-1	S-12609-073117-SK-001	Total/NA	Solid	5035	
240-83124-2	S-12609-073117-SK-002	Total/NA	Solid	5035	
240-83124-3	S-12609-073117-SK-003	Total/NA	Solid	5035	
240-83124-4	S-12609-073117-SK-004	Total/NA	Solid	5035	
240-83124-5	S-12609-073117-SK-005	Total/NA	Solid	5035	
240-83124-6	S-12609-073117-SK-006	Total/NA	Solid	5035	
240-83124-7	S-12609-073117-SK-007	Total/NA	Solid	5035	
240-83124-8	S-12609-073117-SK-008	Total/NA	Solid	5035	
240-83124-9	S-12609-080117-SK-009	Total/NA	Solid	5035	
240-83124-10	S-12609-080117-SK-010	Total/NA	Solid	5035	
240-83124-11	S-12609-080117-SK-011	Total/NA	Solid	5035	
240-83124-12	S-12609-080117-SK-012	Total/NA	Solid	5035	
240-83124-13	S-12609-080117-SK-013	Total/NA	Solid	5035	
240-83124-14	S-12609-080117-SK-014	Total/NA	Solid	5035	
240-83124-15	S-12609-080117-SK-015	Total/NA	Solid	5035	
240-83124-16	S-12609-080117-SK-016	Total/NA	Solid	5035	
240-83124-17	S-12609-080117-SK-017	Total/NA	Solid	5035	
240-83124-18	S-12609-080117-SK-018	Total/NA	Solid	5035	
240-83124-19	S-12609-080117-SK-019	Total/NA	Solid	5035	
MB 240-289815/1-A	Method Blank	Total/NA	Solid	5035	
LCS 240-289815/2-A	Lab Control Sample	Total/NA	Solid	5035	

Prep Batch: 289858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-83124-20	S-12609-080117-SK-020	Total/NA	Solid	5035	
240-83124-21	S-12609-080117-SK-021	Total/NA	Solid	5035	
240-83124-23	TB-12609-080117-SK	Total/NA	Solid	5035	
MB 240-289858/1-A	Method Blank	Total/NA	Solid	5035	
LCS 240-289858/2-A	Lab Control Sample	Total/NA	Solid	5035	
240-83124-20 MS	S-12609-080117-SK-020	Total/NA	Solid	5035	
240-83124-20 MSD	S-12609-080117-SK-020	Total/NA	Solid	5035	

Analysis Batch: 289905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-83124-1	S-12609-073117-SK-001	Total/NA	Solid	8260B	289815
240-83124-2	S-12609-073117-SK-002	Total/NA	Solid	8260B	289815
240-83124-3	S-12609-073117-SK-003	Total/NA	Solid	8260B	289815
240-83124-4	S-12609-073117-SK-004	Total/NA	Solid	8260B	289815
240-83124-5	S-12609-073117-SK-005	Total/NA	Solid	8260B	289815
240-83124-6	S-12609-073117-SK-006	Total/NA	Solid	8260B	289815
240-83124-7	S-12609-073117-SK-007	Total/NA	Solid	8260B	289815
240-83124-8	S-12609-073117-SK-008	Total/NA	Solid	8260B	289815
240-83124-9	S-12609-080117-SK-009	Total/NA	Solid	8260B	289815
240-83124-10	S-12609-080117-SK-010	Total/NA	Solid	8260B	289815
240-83124-11	S-12609-080117-SK-011	Total/NA	Solid	8260B	289815
240-83124-12	S-12609-080117-SK-012	Total/NA	Solid	8260B	289815
240-83124-13	S-12609-080117-SK-013	Total/NA	Solid	8260B	289815
240-83124-14	S-12609-080117-SK-014	Total/NA	Solid	8260B	289815
240-83124-15	S-12609-080117-SK-015	Total/NA	Solid	8260B	289815
240-83124-16	S-12609-080117-SK-016	Total/NA	Solid	8260B	289815
240-83124-17	S-12609-080117-SK-017	Total/NA	Solid	8260B	289815

TestAmerica Canton

QC Association Summary

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

GC/MS VOA (Continued)

Analysis Batch: 289905 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-83124-18	S-12609-080117-SK-018	Total/NA	Solid	8260B	289815
240-83124-19	S-12609-080117-SK-019	Total/NA	Solid	8260B	289815
240-83124-20	S-12609-080117-SK-020	Total/NA	Solid	8260B	289858
240-83124-21	S-12609-080117-SK-021	Total/NA	Solid	8260B	289858
MB 240-289815/1-A	Method Blank	Total/NA	Solid	8260B	289815
MB 240-289858/1-A	Method Blank	Total/NA	Solid	8260B	289858
LCS 240-289815/2-A	Lab Control Sample	Total/NA	Solid	8260B	289815
LCS 240-289858/2-A	Lab Control Sample	Total/NA	Solid	8260B	289858
240-83124-20 MS	S-12609-080117-SK-020	Total/NA	Solid	8260B	289858
240-83124-20 MSD	S-12609-080117-SK-020	Total/NA	Solid	8260B	289858

Analysis Batch: 290567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-83124-23	TB-12609-080117-SK	Total/NA	Solid	8260B	289858

GC Semi VOA

Prep Batch: 289777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-83124-2	S-12609-073117-SK-002	Total/NA	Solid	3540C	
240-83124-3	S-12609-073117-SK-003	Total/NA	Solid	3540C	
240-83124-4	S-12609-073117-SK-004	Total/NA	Solid	3540C	
240-83124-5	S-12609-073117-SK-005	Total/NA	Solid	3540C	
240-83124-6	S-12609-073117-SK-006	Total/NA	Solid	3540C	
240-83124-7	S-12609-073117-SK-007	Total/NA	Solid	3540C	
240-83124-8	S-12609-073117-SK-008	Total/NA	Solid	3540C	
240-83124-9	S-12609-080117-SK-009	Total/NA	Solid	3540C	
240-83124-10	S-12609-080117-SK-010	Total/NA	Solid	3540C	
240-83124-11	S-12609-080117-SK-011	Total/NA	Solid	3540C	
240-83124-12	S-12609-080117-SK-012	Total/NA	Solid	3540C	
240-83124-13	S-12609-080117-SK-013	Total/NA	Solid	3540C	
240-83124-14	S-12609-080117-SK-014	Total/NA	Solid	3540C	
240-83124-15	S-12609-080117-SK-015	Total/NA	Solid	3540C	
240-83124-16	S-12609-080117-SK-016	Total/NA	Solid	3540C	
240-83124-17	S-12609-080117-SK-017	Total/NA	Solid	3540C	
240-83124-18	S-12609-080117-SK-018	Total/NA	Solid	3540C	
240-83124-19	S-12609-080117-SK-019	Total/NA	Solid	3540C	
240-83124-20	S-12609-080117-SK-020	Total/NA	Solid	3540C	
240-83124-21	S-12609-080117-SK-021	Total/NA	Solid	3540C	
MB 240-289777/23-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-289777/24-A	Lab Control Sample	Total/NA	Solid	3540C	
240-83124-20 MS	S-12609-080117-SK-020	Total/NA	Solid	3540C	
240-83124-20 MSD	S-12609-080117-SK-020	Total/NA	Solid	3540C	

Prep Batch: 289798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-83124-1	S-12609-073117-SK-001	Total/NA	Solid	3540C	
MB 240-289798/23-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-289798/24-A	Lab Control Sample	Total/NA	Solid	3540C	

TestAmerica Canton

QC Association Summary

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

GC Semi VOA (Continued)

Analysis Batch: 290029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-83124-2	S-12609-073117-SK-002	Total/NA	Solid	8082A	289777
240-83124-3	S-12609-073117-SK-003	Total/NA	Solid	8082A	289777
240-83124-4	S-12609-073117-SK-004	Total/NA	Solid	8082A	289777
240-83124-5	S-12609-073117-SK-005	Total/NA	Solid	8082A	289777
240-83124-6	S-12609-073117-SK-006	Total/NA	Solid	8082A	289777
240-83124-7	S-12609-073117-SK-007	Total/NA	Solid	8082A	289777
240-83124-8	S-12609-073117-SK-008	Total/NA	Solid	8082A	289777
240-83124-9	S-12609-080117-SK-009	Total/NA	Solid	8082A	289777
240-83124-10	S-12609-080117-SK-010	Total/NA	Solid	8082A	289777
240-83124-11	S-12609-080117-SK-011	Total/NA	Solid	8082A	289777
240-83124-12	S-12609-080117-SK-012	Total/NA	Solid	8082A	289777
240-83124-13	S-12609-080117-SK-013	Total/NA	Solid	8082A	289777
240-83124-14	S-12609-080117-SK-014	Total/NA	Solid	8082A	289777
240-83124-15	S-12609-080117-SK-015	Total/NA	Solid	8082A	289777
240-83124-16	S-12609-080117-SK-016	Total/NA	Solid	8082A	289777
240-83124-17	S-12609-080117-SK-017	Total/NA	Solid	8082A	289777
240-83124-18	S-12609-080117-SK-018	Total/NA	Solid	8082A	289777
240-83124-19	S-12609-080117-SK-019	Total/NA	Solid	8082A	289777
240-83124-20	S-12609-080117-SK-020	Total/NA	Solid	8082A	289777
240-83124-21	S-12609-080117-SK-021	Total/NA	Solid	8082A	289777
MB 240-289777/23-A	Method Blank	Total/NA	Solid	8082A	289777
LCS 240-289777/24-A	Lab Control Sample	Total/NA	Solid	8082A	289777
240-83124-20 MS	S-12609-080117-SK-020	Total/NA	Solid	8082A	289777
240-83124-20 MSD	S-12609-080117-SK-020	Total/NA	Solid	8082A	289777

Analysis Batch: 290058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-83124-1	S-12609-073117-SK-001	Total/NA	Solid	8082A	289798
MB 240-289798/23-A	Method Blank	Total/NA	Solid	8082A	289798
LCS 240-289798/24-A	Lab Control Sample	Total/NA	Solid	8082A	289798

General Chemistry

Analysis Batch: 289775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-83124-1	S-12609-073117-SK-001	Total/NA	Solid	Moisture	
240-83124-2	S-12609-073117-SK-002	Total/NA	Solid	Moisture	
240-83124-3	S-12609-073117-SK-003	Total/NA	Solid	Moisture	
240-83124-4	S-12609-073117-SK-004	Total/NA	Solid	Moisture	
240-83124-5	S-12609-073117-SK-005	Total/NA	Solid	Moisture	
240-83124-6	S-12609-073117-SK-006	Total/NA	Solid	Moisture	
240-83124-7	S-12609-073117-SK-007	Total/NA	Solid	Moisture	
240-83124-8	S-12609-073117-SK-008	Total/NA	Solid	Moisture	
240-83124-9	S-12609-080117-SK-009	Total/NA	Solid	Moisture	
240-83124-10	S-12609-080117-SK-010	Total/NA	Solid	Moisture	
240-83124-11	S-12609-080117-SK-011	Total/NA	Solid	Moisture	
240-83124-12	S-12609-080117-SK-012	Total/NA	Solid	Moisture	
240-83124-13	S-12609-080117-SK-013	Total/NA	Solid	Moisture	
240-83124-14	S-12609-080117-SK-014	Total/NA	Solid	Moisture	
240-83124-15	S-12609-080117-SK-015	Total/NA	Solid	Moisture	

TestAmerica Canton

QC Association Summary

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

General Chemistry (Continued)

Analysis Batch: 289775 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-83124-16	S-12609-080117-SK-016	Total/NA	Solid	Moisture	
240-83124-17	S-12609-080117-SK-017	Total/NA	Solid	Moisture	
240-83124-18	S-12609-080117-SK-018	Total/NA	Solid	Moisture	
240-83124-19	S-12609-080117-SK-019	Total/NA	Solid	Moisture	
240-83124-20	S-12609-080117-SK-020	Total/NA	Solid	Moisture	
240-83124-21	S-12609-080117-SK-021	Total/NA	Solid	Moisture	
240-83124-7 DU	S-12609-073117-SK-007	Total/NA	Solid	Moisture	
240-83124-19 DU	S-12609-080117-SK-019	Total/NA	Solid	Moisture	
240-83124-20 DU	S-12609-080117-SK-020	Total/NA	Solid	Moisture	
240-83124-21 DU	S-12609-080117-SK-021	Total/NA	Solid	Moisture	

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-073117-SK-001

Date Collected: 07/31/17 12:00

Date Received: 08/02/17 09:30

Lab Sample ID: 240-83124-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	289775	08/03/17 08:27	PW	TAL CAN

Client Sample ID: S-12609-073117-SK-001

Date Collected: 07/31/17 12:00

Date Received: 08/02/17 09:30

Lab Sample ID: 240-83124-1

Matrix: Solid

Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			289815	08/03/17 10:29	LAM	TAL CAN
Total/NA	Analysis	8260B		1	289905	08/04/17 04:33	TJL2	TAL CAN
Total/NA	Prep	3540C			289798	08/03/17 09:51	JT	TAL CAN
Total/NA	Analysis	8082A		1	290058	08/05/17 12:48	CSC	TAL CAN

Client Sample ID: S-12609-073117-SK-002

Date Collected: 07/31/17 12:20

Date Received: 08/02/17 09:30

Lab Sample ID: 240-83124-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	289775	08/03/17 08:27	PW	TAL CAN

Client Sample ID: S-12609-073117-SK-002

Date Collected: 07/31/17 12:20

Date Received: 08/02/17 09:30

Lab Sample ID: 240-83124-2

Matrix: Solid

Percent Solids: 81.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			289815	08/03/17 10:29	LAM	TAL CAN
Total/NA	Analysis	8260B		1	289905	08/04/17 04:55	TJL2	TAL CAN
Total/NA	Prep	3540C			289777	08/03/17 08:41	JT	TAL CAN
Total/NA	Analysis	8082A		1	290029	08/04/17 16:49	KMG	TAL CAN

Client Sample ID: S-12609-073117-SK-003

Date Collected: 07/31/17 14:30

Date Received: 08/02/17 09:30

Lab Sample ID: 240-83124-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	289775	08/03/17 08:27	PW	TAL CAN

Client Sample ID: S-12609-073117-SK-003

Date Collected: 07/31/17 14:30

Date Received: 08/02/17 09:30

Lab Sample ID: 240-83124-3

Matrix: Solid

Percent Solids: 87.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			289815	08/03/17 10:29	LAM	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-073117-SK-003

Lab Sample ID: 240-83124-3

Date Collected: 07/31/17 14:30

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 87.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	289905	08/04/17 05:16	TJL2	TAL CAN
Total/NA	Prep	3540C			289777	08/03/17 08:41	JT	TAL CAN
Total/NA	Analysis	8082A		1	290029	08/04/17 17:09	KMG	TAL CAN

Client Sample ID: S-12609-073117-SK-004

Lab Sample ID: 240-83124-4

Date Collected: 07/31/17 14:35

Matrix: Solid

Date Received: 08/02/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	289775	08/03/17 08:27	PW	TAL CAN

Client Sample ID: S-12609-073117-SK-004

Lab Sample ID: 240-83124-4

Date Collected: 07/31/17 14:35

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 78.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			289815	08/03/17 10:29	LAM	TAL CAN
Total/NA	Analysis	8260B		1	289905	08/04/17 06:10	TJL2	TAL CAN
Total/NA	Prep	3540C			289777	08/03/17 08:41	JT	TAL CAN
Total/NA	Analysis	8082A		1	290029	08/04/17 17:28	KMG	TAL CAN

Client Sample ID: S-12609-073117-SK-005

Lab Sample ID: 240-83124-5

Date Collected: 07/31/17 15:55

Matrix: Solid

Date Received: 08/02/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	289775	08/03/17 08:27	PW	TAL CAN

Client Sample ID: S-12609-073117-SK-005

Lab Sample ID: 240-83124-5

Date Collected: 07/31/17 15:55

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 84.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			289815	08/03/17 10:29	LAM	TAL CAN
Total/NA	Analysis	8260B		1	289905	08/04/17 06:32	TJL2	TAL CAN
Total/NA	Prep	3540C			289777	08/03/17 08:41	JT	TAL CAN
Total/NA	Analysis	8082A		1	290029	08/04/17 17:48	KMG	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-073117-SK-006

Lab Sample ID: 240-83124-6

Date Collected: 07/31/17 16:05

Matrix: Solid

Date Received: 08/02/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	289775	08/03/17 08:27	PW	TAL CAN

Client Sample ID: S-12609-073117-SK-006

Lab Sample ID: 240-83124-6

Date Collected: 07/31/17 16:05

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			289815	08/03/17 10:29	LAM	TAL CAN
Total/NA	Analysis	8260B		1	289905	08/04/17 06:54	TJL2	TAL CAN
Total/NA	Prep	3540C			289777	08/03/17 08:41	JT	TAL CAN
Total/NA	Analysis	8082A		1	290029	08/04/17 18:08	KMG	TAL CAN

Client Sample ID: S-12609-073117-SK-007

Lab Sample ID: 240-83124-7

Date Collected: 07/31/17 17:05

Matrix: Solid

Date Received: 08/02/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	289775	08/03/17 08:27	PW	TAL CAN

Client Sample ID: S-12609-073117-SK-007

Lab Sample ID: 240-83124-7

Date Collected: 07/31/17 17:05

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 79.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			289815	08/03/17 10:29	LAM	TAL CAN
Total/NA	Analysis	8260B		1	289905	08/04/17 07:15	TJL2	TAL CAN
Total/NA	Prep	3540C			289777	08/03/17 08:41	JT	TAL CAN
Total/NA	Analysis	8082A		1	290029	08/04/17 18:28	KMG	TAL CAN

Client Sample ID: S-12609-073117-SK-008

Lab Sample ID: 240-83124-8

Date Collected: 07/31/17 17:10

Matrix: Solid

Date Received: 08/02/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	289775	08/03/17 08:27	PW	TAL CAN

Client Sample ID: S-12609-073117-SK-008

Lab Sample ID: 240-83124-8

Date Collected: 07/31/17 17:10

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 78.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			289815	08/03/17 10:29	LAM	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-073117-SK-008

Lab Sample ID: 240-83124-8

Date Collected: 07/31/17 17:10

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 78.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	289905	08/04/17 07:37	TJL2	TAL CAN
Total/NA	Prep	3540C			289777	08/03/17 08:41	JT	TAL CAN
Total/NA	Analysis	8082A		1	290029	08/04/17 18:47	KMG	TAL CAN

Client Sample ID: S-12609-080117-SK-009

Lab Sample ID: 240-83124-9

Date Collected: 08/01/17 09:45

Matrix: Solid

Date Received: 08/02/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	289775	08/03/17 08:27	PW	TAL CAN

Client Sample ID: S-12609-080117-SK-009

Lab Sample ID: 240-83124-9

Date Collected: 08/01/17 09:45

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 79.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			289815	08/03/17 10:29	LAM	TAL CAN
Total/NA	Analysis	8260B		1	289905	08/04/17 07:59	TJL2	TAL CAN
Total/NA	Prep	3540C			289777	08/03/17 08:41	JT	TAL CAN
Total/NA	Analysis	8082A		1	290029	08/04/17 19:07	KMG	TAL CAN

Client Sample ID: S-12609-080117-SK-010

Lab Sample ID: 240-83124-10

Date Collected: 08/01/17 09:50

Matrix: Solid

Date Received: 08/02/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	289775	08/03/17 08:27	PW	TAL CAN

Client Sample ID: S-12609-080117-SK-010

Lab Sample ID: 240-83124-10

Date Collected: 08/01/17 09:50

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 77.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			289815	08/03/17 10:29	LAM	TAL CAN
Total/NA	Analysis	8260B		1	289905	08/04/17 08:23	TJL2	TAL CAN
Total/NA	Prep	3540C			289777	08/03/17 08:41	JT	TAL CAN
Total/NA	Analysis	8082A		1	290029	08/04/17 19:27	KMG	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-011

Lab Sample ID: 240-83124-11

Date Collected: 08/01/17 09:55

Matrix: Solid

Date Received: 08/02/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	289775	08/03/17 08:32	PW	TAL CAN

Client Sample ID: S-12609-080117-SK-011

Lab Sample ID: 240-83124-11

Date Collected: 08/01/17 09:55

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 77.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			289815	08/03/17 10:29	LAM	TAL CAN
Total/NA	Analysis	8260B		1	289905	08/04/17 08:44	TJL2	TAL CAN
Total/NA	Prep	3540C			289777	08/03/17 08:41	JT	TAL CAN
Total/NA	Analysis	8082A		1	290029	08/04/17 19:46	KMG	TAL CAN

Client Sample ID: S-12609-080117-SK-012

Lab Sample ID: 240-83124-12

Date Collected: 08/01/17 10:55

Matrix: Solid

Date Received: 08/02/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	289775	08/03/17 08:32	PW	TAL CAN

Client Sample ID: S-12609-080117-SK-012

Lab Sample ID: 240-83124-12

Date Collected: 08/01/17 10:55

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 81.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			289815	08/03/17 10:29	LAM	TAL CAN
Total/NA	Analysis	8260B		1	289905	08/04/17 09:35	TJL2	TAL CAN
Total/NA	Prep	3540C			289777	08/03/17 08:41	JT	TAL CAN
Total/NA	Analysis	8082A		1	290029	08/04/17 20:06	KMG	TAL CAN

Client Sample ID: S-12609-080117-SK-013

Lab Sample ID: 240-83124-13

Date Collected: 08/01/17 11:00

Matrix: Solid

Date Received: 08/02/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	289775	08/03/17 08:32	PW	TAL CAN

Client Sample ID: S-12609-080117-SK-013

Lab Sample ID: 240-83124-13

Date Collected: 08/01/17 11:00

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 79.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			289815	08/03/17 10:29	LAM	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-013

Lab Sample ID: 240-83124-13

Date Collected: 08/01/17 11:00

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 79.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	289905	08/04/17 09:56	TJL2	TAL CAN
Total/NA	Prep	3540C			289777	08/03/17 08:41	JT	TAL CAN
Total/NA	Analysis	8082A		1	290029	08/04/17 20:25	KMG	TAL CAN

Client Sample ID: S-12609-080117-SK-014

Lab Sample ID: 240-83124-14

Date Collected: 08/01/17 12:00

Matrix: Solid

Date Received: 08/02/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	289775	08/03/17 08:32	PW	TAL CAN

Client Sample ID: S-12609-080117-SK-014

Lab Sample ID: 240-83124-14

Date Collected: 08/01/17 12:00

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 76.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			289815	08/03/17 10:29	LAM	TAL CAN
Total/NA	Analysis	8260B		1	289905	08/04/17 10:18	TJL2	TAL CAN
Total/NA	Prep	3540C			289777	08/03/17 08:41	JT	TAL CAN
Total/NA	Analysis	8082A		1	290029	08/04/17 20:44	KMG	TAL CAN

Client Sample ID: S-12609-080117-SK-015

Lab Sample ID: 240-83124-15

Date Collected: 08/01/17 12:05

Matrix: Solid

Date Received: 08/02/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	289775	08/03/17 08:32	PW	TAL CAN

Client Sample ID: S-12609-080117-SK-015

Lab Sample ID: 240-83124-15

Date Collected: 08/01/17 12:05

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 79.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			289815	08/03/17 10:29	LAM	TAL CAN
Total/NA	Analysis	8260B		1	289905	08/04/17 10:39	TJL2	TAL CAN
Total/NA	Prep	3540C			289777	08/03/17 08:41	JT	TAL CAN
Total/NA	Analysis	8082A		1	290029	08/04/17 21:03	KMG	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-016

Lab Sample ID: 240-83124-16

Date Collected: 08/01/17 15:15

Matrix: Solid

Date Received: 08/02/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	289775	08/03/17 08:32	PW	TAL CAN

Client Sample ID: S-12609-080117-SK-016

Lab Sample ID: 240-83124-16

Date Collected: 08/01/17 15:15

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			289815	08/03/17 10:29	LAM	TAL CAN
Total/NA	Analysis	8260B		1	289905	08/04/17 11:00	TJL2	TAL CAN
Total/NA	Prep	3540C			289777	08/03/17 08:41	JT	TAL CAN
Total/NA	Analysis	8082A		1	290029	08/04/17 21:23	KMG	TAL CAN

Client Sample ID: S-12609-080117-SK-017

Lab Sample ID: 240-83124-17

Date Collected: 08/01/17 15:20

Matrix: Solid

Date Received: 08/02/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	289775	08/03/17 08:32	PW	TAL CAN

Client Sample ID: S-12609-080117-SK-017

Lab Sample ID: 240-83124-17

Date Collected: 08/01/17 15:20

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 79.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			289815	08/03/17 10:29	LAM	TAL CAN
Total/NA	Analysis	8260B		1	289905	08/04/17 11:22	TJL2	TAL CAN
Total/NA	Prep	3540C			289777	08/03/17 08:41	JT	TAL CAN
Total/NA	Analysis	8082A		1	290029	08/04/17 21:42	KMG	TAL CAN

Client Sample ID: S-12609-080117-SK-018

Lab Sample ID: 240-83124-18

Date Collected: 08/01/17 16:20

Matrix: Solid

Date Received: 08/02/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	289775	08/03/17 08:32	PW	TAL CAN

Client Sample ID: S-12609-080117-SK-018

Lab Sample ID: 240-83124-18

Date Collected: 08/01/17 16:20

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 82.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			289815	08/03/17 10:29	LAM	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-018

Lab Sample ID: 240-83124-18

Date Collected: 08/01/17 16:20

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 82.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	289905	08/04/17 11:43	TJL2	TAL CAN
Total/NA	Prep	3540C			289777	08/03/17 08:41	JT	TAL CAN
Total/NA	Analysis	8082A		1	290029	08/04/17 22:02	KMG	TAL CAN

Client Sample ID: S-12609-080117-SK-019

Lab Sample ID: 240-83124-19

Date Collected: 08/01/17 16:25

Matrix: Solid

Date Received: 08/02/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	289775	08/03/17 09:21	PW	TAL CAN

Client Sample ID: S-12609-080117-SK-019

Lab Sample ID: 240-83124-19

Date Collected: 08/01/17 16:25

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 77.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			289815	08/03/17 10:29	LAM	TAL CAN
Total/NA	Analysis	8260B		1	289905	08/04/17 12:04	TJL2	TAL CAN
Total/NA	Prep	3540C			289777	08/03/17 08:41	JT	TAL CAN
Total/NA	Analysis	8082A		1	290029	08/04/17 22:21	KMG	TAL CAN

Client Sample ID: S-12609-080117-SK-020

Lab Sample ID: 240-83124-20

Date Collected: 08/01/17 17:15

Matrix: Solid

Date Received: 08/02/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	289775	08/03/17 08:32	PW	TAL CAN

Client Sample ID: S-12609-080117-SK-020

Lab Sample ID: 240-83124-20

Date Collected: 08/01/17 17:15

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 86.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			289858	08/03/17 12:53	LAM	TAL CAN
Total/NA	Analysis	8260B		1	289905	08/04/17 13:09	TJL2	TAL CAN
Total/NA	Prep	3540C			289777	08/03/17 08:41	JT	TAL CAN
Total/NA	Analysis	8082A		1	290029	08/04/17 23:40	KMG	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Client Sample ID: S-12609-080117-SK-021

Lab Sample ID: 240-83124-21

Date Collected: 08/01/17 17:20

Matrix: Solid

Date Received: 08/02/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	289775	08/03/17 09:38	PW	TAL CAN

Client Sample ID: S-12609-080117-SK-021

Lab Sample ID: 240-83124-21

Date Collected: 08/01/17 17:20

Matrix: Solid

Date Received: 08/02/17 09:30

Percent Solids: 77.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			289858	08/03/17 12:53	LAM	TAL CAN
Total/NA	Analysis	8260B		1	289905	08/04/17 14:14	TJL2	TAL CAN
Total/NA	Prep	3540C			289777	08/03/17 08:41	JT	TAL CAN
Total/NA	Analysis	8082A		1	290029	08/05/17 00:38	KMG	TAL CAN

Client Sample ID: TB-12609-080117-SK

Lab Sample ID: 240-83124-23

Date Collected: 08/01/17 00:00

Matrix: Solid

Date Received: 08/02/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			289858	08/03/17 12:53	LAM	TAL CAN
Total/NA	Analysis	8260B		1	290567	08/10/17 13:03	TJL2	TAL CAN

Laboratory References:

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

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83124-1

Laboratory: TestAmerica Canton

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

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2927	02-23-18
Connecticut	State Program	1	PH-0590	12-31-17 *
Florida	NELAP	4	E87225	06-30-18
Illinois	NELAP	5	200004	07-31-18
Kansas	NELAP	7	E-10336	01-31-18 *
Kentucky (UST)	State Program	4	58	02-23-18
Kentucky (WW)	State Program	4	98016	12-31-17 *
Minnesota	NELAP	5	039-999-348	12-31-17 *
Minnesota (Petrofund)	State Program	1	3506	07-31-17 *
Nevada	State Program	9	OH-000482008A	07-31-18
New Jersey	NELAP	2	OH001	06-30-18
New York	NELAP	2	10975	03-31-18
Ohio VAP	State Program	5	CL0024	09-14-17 *
Oregon	NELAP	10	4062	02-23-18
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	12-31-17 *
Wisconsin	State Program	5	999518190	08-31-17 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Canton

TestAmerica Michigan

10448 Citiation Drive
Suite 200

Brighton, MI 48116

Phone: 810.229.2763 Fax: 412.963.2470

MICHIGAN

190

Chain of Custody Record

221970

T.A. # 24005708

16/11/6

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

TAL-8210 (0713)

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

Client Contact		Project Manager: <u>A. Lavine</u>		Site Contact: <u>S. Kippen</u>		Date: <u>8-1-17</u>		COC No:		
Company Name: <u>GHD</u>		Tel/Fax: <u>(419) 503-0784</u>		Lab Contact: <u>A. Brown</u>		Carrier: <u>FedEx</u>		1 of 2 COCs		
Address: <u>26850 Haggerty Rd.</u>		Analysis Turnaround Time		Filtered Sample (Y/N) Perform MS/MSD (Y/N) <u>VOC's</u> <u>PCB's</u> <u>0% Moisture</u>				Sampler: <u>S. Kippen</u>		
City/State/Zip: <u>Farmington Hills, MI</u>		☐ CALENDAR DAYS ☒ WORKING DAYS						For Lab Use Only:		
Phone: <u>(734) 453-5123</u> <u>48331</u>		TAT if different from Below						Walk-in Client:		
Fax: <u>Chem.Det@ghd.com</u>		☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day						Lab Sampling:		
Project Name: <u>G MPT Toledo</u>		Standard						Job / SDG No.:		
Site: <u>Toledo, O.H.</u>										
P O # <u>SSOW: 12906-TOL-2017-002</u>										
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes:			
S-12609-073117-SK-001		7-31-17	12:00	G	Soil	2	X	X	X	
002			12:20	G		2	X	X	X	
003			14:30	G		2	X	X	X	
004			14:35	G		2	X	X	X	
005			15:55	G		2	X	X	X	
006			16:05	G		2	X	X	X	
007			17:05	G		2	X	X	X	
008			17:10	G		2	X	X	X	
S-12609-080117-SK-009		8-1-17	9:45	G		2	X	X	X	
-010			9:50	G		2	X	X	X	
-011			9:55	G		2	X	X	X	
-012			10:55	G		2	X	X	X	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other										
Possible Hazard Identification:						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
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						☐ 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: _____		Corr'd: _____		Therm ID No.:		
Relinquished by: <u>[Signature]</u>		Company: <u>GHD</u>		Date/Time: <u>8-1-17 19:00</u>		Received by: <u>[Signature]</u>		Company: <u>TAC</u>		Date/Time: <u>08/02/17 930</u>
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:
Relinquished by:		Company:		Date/Time:		Received in Laboratory by:		Company:		Date/Time:

Page 121 of 123

8/15/2017

TestAmerica Michigan
10448 Citation Drive
Suite 200
Brighton, MI 48116
Phone: 810.229.2763 Fax: 412.963.2470

MICHIGAN Chain of Custody Record

221971

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

TAL-8210 (0713)

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

190 T.A.# 24005708

Client Contact		Project Manager: A. Lavine		Site Contact: S. Kippen		Date: 8-1-17		COC No:		
Company Name: GHD		Tel/Fax: (419) 503-0784		Lab Contact: A. Brown		Carrier: FedEx		2 of 2 COCs		
Address: 26850 Haggerty Rd.		Analysis Turnaround Time		Filtered Sample (Y/N) Perform MS / MSD (Y/N) VOC's PCB's % Moisture				Sampler: S. Kippen		
City/State/Zip: Farmington Hills, M.I.		☐ CALENDAR DAYS ☒ WORKING DAYS						For Lab Use Only:		
Phone: (734) 453-8123 48331		TAT if different from Below						Walk-in Client:		
Fax: Chem-Det@ghd.com		☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day Standard						Lab Sampling:		
Project Name: GMPT Toledo								Job / SDG No.:		
Site: Toledo, O.H.										
P.O.# S50W: 12906-Tol-2017-002										
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes:			
S-12609-080117-SK-013		8-1-17	11:00	G	Soil	2	X X X			
-014			12:00			2	X X X			
-015			12:05			2	X X X			
-016			15:15			2	X X X			
-017			15:20			2	X X X			
-018			16:20			2	X X X			
-019			16:25			2	X X X			
-020			17:15			5	X X X X			
-021			17:20			2	X X X			
TB-12609-080117-SK			-	-	TB	1	X			
							SK			
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other										
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown						☐ 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: _____		Corr'd: _____		Therm ID No.: _____		
Relinquished by: [Signature]		Company: GHD		Date/Time: 8-1-17 19:00		Received by: [Signature]		Company: TAC		
Relinquished by:		Company:		Date/Time:		Received by:		Company:		
Relinquished by:		Company:		Date/Time:		Received in Laboratory by:		Company:		

Page 122 of 123

8/15/2017

TestAmerica Canton Sample Receipt Form/Narrative Login #: 83124

Canton Facility

Client GHD Site Name GMP Cooler unpacked by: [Signature]

Cooler Received on 08/02/17 Opened on 08/02/17

FedEx: 1st Grd Exp UPS FAS Clipper 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: Water 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. _____ °C
 IR GUN #36 (CF +0°C) Observed Cooler Temp. 1.6 °C Corrected Cooler Temp. 1.6 °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# HC697954

12. Were VOAs on the COC? Yes No

13. Were air bubbles >6 mm in any VOA vials?  Larger than this. Yes No NA

14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # Covered 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 _____

16. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by: _____

17. 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)

18. SAMPLE PRESERVATION

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

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

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-83321-1

Client Project/Site: 12609-T01-2017, Racer Toledo

For:

GHD Services Inc.

9033 Meridian Way

West Chester, Ohio 45069

Attn: Ms. Angela Bown



Authorized for release by:

8/15/2017 8:25:32 AM

Denise Heckler, Project Manager II

(330)966-9477

denise.heckler@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



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.

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Method Summary	6
Sample Summary	7
Detection Summary	8
Client Sample Results	11
Surrogate Summary	93
QC Sample Results	95
QC Association Summary	102
Lab Chronicle	106
Certification Summary	115
Chain of Custody	116



Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Qualifiers

GC/MS 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.
*	LCS or LCSD is outside acceptance limits.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Job ID: 240-83321-1

Laboratory: TestAmerica Canton

Narrative

Job Narrative 240-83321-1

Comments

No additional comments.

Receipt

The samples were received on 8/5/2017 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.6° C.

GC/MS VOA

Method(s) 8260B: The following samples were received in pre-weighed containers with a label that was added in the field, which would cause a slight low bias in the final results. S-12609-080217-SK-022 (240-83321-1), S-12609-080217-SK-023 (240-83321-2), S-12609-080217-SK-024 (240-83321-3), S-12609-080217-SK-025 (240-83321-4), S-12609-080217-SK-026 (240-83321-5), S-12609-080217-SK-027 (240-83321-6), S-12609-080217-SK-028 (240-83321-7), S-12609-080217-SK-029 (240-83321-8), S-12609-080217-SK-030 (240-83321-9), S-12609-080317-SK-031 (240-83321-10), S-12609-080317-SK-032 (240-83321-11), S-12609-080317-SK-033 (240-83321-12), S-12609-080317-SK-034 (240-83321-13), S-12609-080317-SK-035 (240-83321-14), S-12609-080317-SK-036 (240-83321-15), S-12609-080317-SK-037 (240-83321-16), S-12609-080317-SK-038 (240-83321-17), S-12609-080317-SK-039 (240-83321-18), S-12609-080317-SK-040 (240-83321-19), S-12609-080317-SK-040 (240-83321-19[DU]), S-12609-080317-SK-040 (240-83321-19[MS]), S-12609-080317-SK-040 (240-83321-19[MSD]), S-12609-080317-SK-041 (240-83321-20) and TB-12609-080417-SK (240-83321-21).

Method(s) 8260B: Surrogate recovery for the following samples were outside of acceptance limits: S-12609-080217-SK-022 (240-83321-1), S-12609-080217-SK-024 (240-83321-3), S-12609-080217-SK-025 (240-83321-4), S-12609-080217-SK-027 (240-83321-6), S-12609-080217-SK-030 (240-83321-9) and S-12609-080317-SK-040 (240-83321-19[MS]). There was insufficient sample to perform a re-extraction; therefore, the data have been reported.

Method(s) 8260B: The laboratory control sample (LCS) for preparation batch 240-290343 and analytical batch 240-290658 recovered outside acceptance limits for Methylene Chloride. There was insufficient sample to perform a re-extraction or re-analysis; therefore, the data have been reported.

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 240-290343 and analytical batch 240-290658.

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

GC Semi VOA

Method(s) 8082A: The following sample required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: S-12609-080317-SK-037 (240-83321-16). 3177340, 2596994, 3141113.

Method(s) 8082A: The following sample was diluted due to abundance of target analytes: S-12609-080317-SK-033 (240-83321-12). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method(s) 8082A: The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: S-12609-080217-SK-022 (240-83321-1), S-12609-080217-SK-024 (240-83321-3), S-12609-080217-SK-025 (240-83321-4), S-12609-080217-SK-026 (240-83321-5), S-12609-080217-SK-027 (240-83321-6), S-12609-080217-SK-028 (240-83321-7), S-12609-080217-SK-029 (240-83321-8), S-12609-080317-SK-031 (240-83321-10), S-12609-080317-SK-032 (240-83321-11), S-12609-080317-SK-033 (240-83321-12) and S-12609-080317-SK-035 (240-83321-14). 3177339, 2596993, 3141111.

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

Case Narrative

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Job ID: 240-83321-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

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.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Method Summary

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
8082A	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

Sample Summary

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-83321-1	S-12609-080217-SK-022	Solid	08/02/17 09:50	08/05/17 09:30
240-83321-2	S-12609-080217-SK-023	Solid	08/02/17 09:55	08/05/17 09:30
240-83321-3	S-12609-080217-SK-024	Solid	08/02/17 12:15	08/05/17 09:30
240-83321-4	S-12609-080217-SK-025	Solid	08/02/17 12:20	08/05/17 09:30
240-83321-5	S-12609-080217-SK-026	Solid	08/02/17 12:25	08/05/17 09:30
240-83321-6	S-12609-080217-SK-027	Solid	08/02/17 14:50	08/05/17 09:30
240-83321-7	S-12609-080217-SK-028	Solid	08/02/17 14:55	08/05/17 09:30
240-83321-8	S-12609-080217-SK-029	Solid	08/02/17 16:00	08/05/17 09:30
240-83321-9	S-12609-080217-SK-030	Solid	08/02/17 16:05	08/05/17 09:30
240-83321-10	S-12609-080317-SK-031	Solid	08/03/17 09:55	08/05/17 09:30
240-83321-11	S-12609-080317-SK-032	Solid	08/03/17 10:35	08/05/17 09:30
240-83321-12	S-12609-080317-SK-033	Solid	08/03/17 10:45	08/05/17 09:30
240-83321-13	S-12609-080317-SK-034	Solid	08/03/17 12:00	08/05/17 09:30
240-83321-14	S-12609-080317-SK-035	Solid	08/03/17 12:05	08/05/17 09:30
240-83321-15	S-12609-080317-SK-036	Solid	08/03/17 14:45	08/05/17 09:30
240-83321-16	S-12609-080317-SK-037	Solid	08/03/17 14:50	08/05/17 09:30
240-83321-17	S-12609-080317-SK-038	Solid	08/03/17 16:10	08/05/17 09:30
240-83321-18	S-12609-080317-SK-039	Solid	08/03/17 16:15	08/05/17 09:30
240-83321-19	S-12609-080317-SK-040	Solid	08/03/17 16:50	08/05/17 09:30
240-83321-20	S-12609-080317-SK-041	Solid	08/03/17 16:55	08/05/17 09:30
240-83321-21	TB-12609-080417-SK	Solid	08/04/17 00:00	08/05/17 09:30

Detection Summary

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080217-SK-022

Lab Sample ID: 240-83321-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	430	J	1300	130	ug/Kg	1	☼	8260B	Total/NA
Methylene Chloride	200	J B *	330	86	ug/Kg	1	☼	8260B	Total/NA
Aroclor-1254	42	J	62	17	ug/Kg	1	☼	8082A	Total/NA

Client Sample ID: S-12609-080217-SK-023

Lab Sample ID: 240-83321-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	260	J B *	430	110	ug/Kg	1	☼	8260B	Total/NA
Trichloroethene	130	J	430	64	ug/Kg	1	☼	8260B	Total/NA

Client Sample ID: S-12609-080217-SK-024

Lab Sample ID: 240-83321-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	210	J	1300	120	ug/Kg	1	☼	8260B	Total/NA
Methylene Chloride	210	J B *	320	82	ug/Kg	1	☼	8260B	Total/NA

Client Sample ID: S-12609-080217-SK-025

Lab Sample ID: 240-83321-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	210	J B *	350	92	ug/Kg	1	☼	8260B	Total/NA

Client Sample ID: S-12609-080217-SK-026

Lab Sample ID: 240-83321-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	240	J B *	350	90	ug/Kg	1	☼	8260B	Total/NA

Client Sample ID: S-12609-080217-SK-027

Lab Sample ID: 240-83321-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	450	J	1500	140	ug/Kg	1	☼	8260B	Total/NA
Methylene Chloride	230	J B *	360	95	ug/Kg	1	☼	8260B	Total/NA
Methyl acetate	120	J	1800	110	ug/Kg	1	☼	8260B	Total/NA

Client Sample ID: S-12609-080217-SK-028

Lab Sample ID: 240-83321-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	370	J	1400	140	ug/Kg	1	☼	8260B	Total/NA
Methylene Chloride	250	J B *	350	91	ug/Kg	1	☼	8260B	Total/NA

Client Sample ID: S-12609-080217-SK-029

Lab Sample ID: 240-83321-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	130	J	1300	120	ug/Kg	1	☼	8260B	Total/NA
Methylene Chloride	220	J B *	320	83	ug/Kg	1	☼	8260B	Total/NA

Client Sample ID: S-12609-080217-SK-030

Lab Sample ID: 240-83321-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	470	J	1600	160	ug/Kg	1	☼	8260B	Total/NA
Methylene Chloride	270	J B *	400	110	ug/Kg	1	☼	8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080317-SK-031

Lab Sample ID: 240-83321-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	69	J	1300	67	ug/Kg	1	☼	8260B	Total/NA
Methylene Chloride	230	J B *	340	88	ug/Kg	1	☼	8260B	Total/NA
Xylenes, Total	140	J	670	38	ug/Kg	1	☼	8260B	Total/NA
Methyl acetate	190	J	1700	100	ug/Kg	1	☼	8260B	Total/NA
1,2-Dichlorobenzene	51	J	340	24	ug/Kg	1	☼	8260B	Total/NA
Aroclor-1248	16000		1300	430	ug/Kg	20	☼	8082A	Total/NA

Client Sample ID: S-12609-080317-SK-032

Lab Sample ID: 240-83321-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	180	J	1200	120	ug/Kg	1	☼	8260B	Total/NA
2-Butanone (MEK)	90	J	1200	61	ug/Kg	1	☼	8260B	Total/NA
Methylene Chloride	180	J B *	300	79	ug/Kg	1	☼	8260B	Total/NA
Methyl acetate	240	J	1500	91	ug/Kg	1	☼	8260B	Total/NA
Aroclor-1248	1600		59	20	ug/Kg	1	☼	8082A	Total/NA

Client Sample ID: S-12609-080317-SK-033

Lab Sample ID: 240-83321-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	170	J	1600	150	ug/Kg	1	☼	8260B	Total/NA
Methylene Chloride	260	J B *	400	100	ug/Kg	1	☼	8260B	Total/NA
Aroclor-1248	14000		1300	440	ug/Kg	20	☼	8082A	Total/NA

Client Sample ID: S-12609-080317-SK-034

Lab Sample ID: 240-83321-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	210	J B *	320	82	ug/Kg	1	☼	8260B	Total/NA

Client Sample ID: S-12609-080317-SK-035

Lab Sample ID: 240-83321-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1100	J	1500	150	ug/Kg	1	☼	8260B	Total/NA
Methylene Chloride	260	J B *	390	100	ug/Kg	1	☼	8260B	Total/NA

Client Sample ID: S-12609-080317-SK-036

Lab Sample ID: 240-83321-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	180	J	1300	130	ug/Kg	1	☼	8260B	Total/NA
Methylene Chloride	220	J B *	330	86	ug/Kg	1	☼	8260B	Total/NA

Client Sample ID: S-12609-080317-SK-037

Lab Sample ID: 240-83321-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	250	J	1400	140	ug/Kg	1	☼	8260B	Total/NA
Methylene Chloride	240	J B *	360	94	ug/Kg	1	☼	8260B	Total/NA

Client Sample ID: S-12609-080317-SK-038

Lab Sample ID: 240-83321-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	240	J B	350	92	ug/Kg	1	☼	8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080317-SK-039

Lab Sample ID: 240-83321-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	180	J	1300	130	ug/Kg	1		✱	8260B	Total/NA
Methylene Chloride	240	J B	330	86	ug/Kg	1		✱	8260B	Total/NA

Client Sample ID: S-12609-080317-SK-040

Lab Sample ID: 240-83321-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Methylene Chloride	270	J F1 B	410	110	ug/Kg	1		✱	8260B	Total/NA

Client Sample ID: S-12609-080317-SK-041

Lab Sample ID: 240-83321-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Methylene Chloride	280	J B	430	110	ug/Kg	1		✱	8260B	Total/NA

Client Sample ID: TB-12609-080417-SK

Lab Sample ID: 240-83321-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	240	J	1000	97	ug/Kg	1			8260B	Total/NA
Methylene Chloride	160	J B	250	65	ug/Kg	1			8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080217-SK-022

Lab Sample ID: 240-83321-1

Date Collected: 08/02/17 09:50

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	430	J	1300	130	ug/Kg	☼	08/08/17 10:37	08/10/17 14:04	1
Benzene	330	U	330	32	ug/Kg	☼	08/08/17 10:37	08/10/17 14:04	1
Dichlorobromomethane	330	U	330	24	ug/Kg	☼	08/08/17 10:37	08/10/17 14:04	1
Bromoform	330	U	330	31	ug/Kg	☼	08/08/17 10:37	08/10/17 14:04	1
Bromomethane	330	U	330	37	ug/Kg	☼	08/08/17 10:37	08/10/17 14:04	1
2-Butanone (MEK)	1300	U	1300	66	ug/Kg	☼	08/08/17 10:37	08/10/17 14:04	1
Carbon disulfide	330	U	330	24	ug/Kg	☼	08/08/17 10:37	08/10/17 14:04	1
Carbon tetrachloride	330	U	330	36	ug/Kg	☼	08/08/17 10:37	08/10/17 14:04	1
Chlorobenzene	330	U	330	40	ug/Kg	☼	08/08/17 10:37	08/10/17 14:04	1
Chloroethane	330	U	330	37	ug/Kg	☼	08/08/17 10:37	08/10/17 14:04	1
Chloroform	330	U	330	32	ug/Kg	☼	08/08/17 10:37	08/10/17 14:04	1
Chloromethane	330	U	330	24	ug/Kg	☼	08/08/17 10:37	08/10/17 14:04	1
1,1-Dichloroethane	330	U	330	41	ug/Kg	☼	08/08/17 10:37	08/10/17 14:04	1
1,2-Dichloroethane	330	U	330	40	ug/Kg	☼	08/08/17 10:37	08/10/17 14:04	1
1,1-Dichloroethene	330	U	330	48	ug/Kg	☼	08/08/17 10:37	08/10/17 14:04	1
1,2-Dichloropropane	330	U	330	40	ug/Kg	☼	08/08/17 10:37	08/10/17 14:04	1
cis-1,3-Dichloropropene	330	U	330	31	ug/Kg	☼	08/08/17 10:37	08/10/17 14:04	1
trans-1,3-Dichloropropene	330	U	330	20	ug/Kg	☼	08/08/17 10:37	08/10/17 14:04	1
Ethylbenzene	330	U	330	47	ug/Kg	☼	08/08/17 10:37	08/10/17 14:04	1
2-Hexanone	1300	U	1300	110	ug/Kg	☼	08/08/17 10:37	08/10/17 14:04	1
Methylene Chloride	200	J B *	330	86	ug/Kg	☼	08/08/17 10:37	08/10/17 14:04	1
4-Methyl-2-pentanone (MIBK)	1300	U	1300	53	ug/Kg	☼	08/08/17 10:37	08/10/17 14:04	1
Styrene	330	U	330	13	ug/Kg	☼	08/08/17 10:37	08/10/17 14:04	1
1,1,2,2-Tetrachloroethane	330	U	330	32	ug/Kg	☼	08/08/17 10:37	08/10/17 14:04	1
Tetrachloroethene	330	U	330	28	ug/Kg	☼	08/08/17 10:37	08/10/17 14:04	1
Toluene	330	U	330	32	ug/Kg	☼	08/08/17 10:37	08/10/17 14:04	1
Trichloroethene	330	U	330	49	ug/Kg	☼	08/08/17 10:37	08/10/17 14:04	1
Vinyl chloride	330	U	330	23	ug/Kg	☼	08/08/17 10:37	08/10/17 14:04	1
Xylenes, Total	660	U	660	37	ug/Kg	☼	08/08/17 10:37	08/10/17 14:04	1
1,1,1-Trichloroethane	330	U	330	37	ug/Kg	☼	08/08/17 10:37	08/10/17 14:04	1
1,1,2-Trichloroethane	330	U	330	31	ug/Kg	☼	08/08/17 10:37	08/10/17 14:04	1
Cyclohexane	660	U	660	40	ug/Kg	☼	08/08/17 10:37	08/10/17 14:04	1
1,2-Dibromo-3-Chloropropane	660	U	660	64	ug/Kg	☼	08/08/17 10:37	08/10/17 14:04	1
Ethylene Dibromide	330	U	330	31	ug/Kg	☼	08/08/17 10:37	08/10/17 14:04	1
Dichlorodifluoromethane	330	U	330	29	ug/Kg	☼	08/08/17 10:37	08/10/17 14:04	1
cis-1,2-Dichloroethene	330	U	330	47	ug/Kg	☼	08/08/17 10:37	08/10/17 14:04	1
trans-1,2-Dichloroethene	330	U	330	47	ug/Kg	☼	08/08/17 10:37	08/10/17 14:04	1
Isopropylbenzene	330	U	330	45	ug/Kg	☼	08/08/17 10:37	08/10/17 14:04	1
Methyl acetate	1700	U	1700	100	ug/Kg	☼	08/08/17 10:37	08/10/17 14:04	1
Methyl tert-butyl ether	330	U	330	35	ug/Kg	☼	08/08/17 10:37	08/10/17 14:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	330	U	330	31	ug/Kg	☼	08/08/17 10:37	08/10/17 14:04	1
1,2,4-Trichlorobenzene	330	U	330	35	ug/Kg	☼	08/08/17 10:37	08/10/17 14:04	1
1,2-Dichlorobenzene	330	U	330	24	ug/Kg	☼	08/08/17 10:37	08/10/17 14:04	1
1,3-Dichlorobenzene	330	U	330	51	ug/Kg	☼	08/08/17 10:37	08/10/17 14:04	1
1,4-Dichlorobenzene	330	U	330	36	ug/Kg	☼	08/08/17 10:37	08/10/17 14:04	1
Trichlorofluoromethane	330	U	330	45	ug/Kg	☼	08/08/17 10:37	08/10/17 14:04	1
Chlorodibromomethane	330	U	330	45	ug/Kg	☼	08/08/17 10:37	08/10/17 14:04	1
Methylcyclohexane	660	U	660	49	ug/Kg	☼	08/08/17 10:37	08/10/17 14:04	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080217-SK-022

Date Collected: 08/02/17 09:50

Date Received: 08/05/17 09:30

Lab Sample ID: 240-83321-1

Matrix: Solid

Percent Solids: 80.7

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	152	X	64 - 144	08/08/17 10:37	08/10/17 14:04	1
4-Bromofluorobenzene (Surr)	162	X	58 - 142	08/08/17 10:37	08/10/17 14:04	1
Toluene-d8 (Surr)	135		61 - 137	08/08/17 10:37	08/10/17 14:04	1
Dibromofluoromethane (Surr)	137		31 - 155	08/08/17 10:37	08/10/17 14:04	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080217-SK-022

Lab Sample ID: 240-83321-1

Date Collected: 08/02/17 09:50

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	62	U	62	30	ug/Kg	☼	08/08/17 08:59	08/10/17 17:54	1
Aroclor-1221	62	U	62	29	ug/Kg	☼	08/08/17 08:59	08/10/17 17:54	1
Aroclor-1232	62	U	62	20	ug/Kg	☼	08/08/17 08:59	08/10/17 17:54	1
Aroclor-1242	62	U	62	25	ug/Kg	☼	08/08/17 08:59	08/10/17 17:54	1
Aroclor-1248	62	U	62	21	ug/Kg	☼	08/08/17 08:59	08/10/17 17:54	1
Aroclor-1254	42	J	62	17	ug/Kg	☼	08/08/17 08:59	08/10/17 17:54	1
Aroclor-1260	62	U	62	22	ug/Kg	☼	08/08/17 08:59	08/10/17 17:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	68		14 - 128	08/08/17 08:59	08/10/17 17:54	1
DCB Decachlorobiphenyl	67		10 - 132	08/08/17 08:59	08/10/17 17:54	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080217-SK-022

Lab Sample ID: 240-83321-1

Date Collected: 08/02/17 09:50

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 80.7

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	80.7		0.1	0.1	%			08/07/17 09:32	1
Percent Moisture	19.3		0.1	0.1	%			08/07/17 09:32	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080217-SK-023

Lab Sample ID: 240-83321-2

Date Collected: 08/02/17 09:55

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 73.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1700	U	1700	170	ug/Kg	☼	08/08/17 10:37	08/10/17 14:25	1
Benzene	430	U	430	42	ug/Kg	☼	08/08/17 10:37	08/10/17 14:25	1
Dichlorobromomethane	430	U	430	31	ug/Kg	☼	08/08/17 10:37	08/10/17 14:25	1
Bromoform	430	U	430	40	ug/Kg	☼	08/08/17 10:37	08/10/17 14:25	1
Bromomethane	430	U	430	48	ug/Kg	☼	08/08/17 10:37	08/10/17 14:25	1
2-Butanone (MEK)	1700	U	1700	86	ug/Kg	☼	08/08/17 10:37	08/10/17 14:25	1
Carbon disulfide	430	U	430	31	ug/Kg	☼	08/08/17 10:37	08/10/17 14:25	1
Carbon tetrachloride	430	U	430	47	ug/Kg	☼	08/08/17 10:37	08/10/17 14:25	1
Chlorobenzene	430	U	430	52	ug/Kg	☼	08/08/17 10:37	08/10/17 14:25	1
Chloroethane	430	U	430	48	ug/Kg	☼	08/08/17 10:37	08/10/17 14:25	1
Chloroform	430	U	430	42	ug/Kg	☼	08/08/17 10:37	08/10/17 14:25	1
Chloromethane	430	U	430	31	ug/Kg	☼	08/08/17 10:37	08/10/17 14:25	1
1,1-Dichloroethane	430	U	430	54	ug/Kg	☼	08/08/17 10:37	08/10/17 14:25	1
1,2-Dichloroethane	430	U	430	52	ug/Kg	☼	08/08/17 10:37	08/10/17 14:25	1
1,1-Dichloroethene	430	U	430	62	ug/Kg	☼	08/08/17 10:37	08/10/17 14:25	1
1,2-Dichloropropane	430	U	430	52	ug/Kg	☼	08/08/17 10:37	08/10/17 14:25	1
cis-1,3-Dichloropropene	430	U	430	40	ug/Kg	☼	08/08/17 10:37	08/10/17 14:25	1
trans-1,3-Dichloropropene	430	U	430	26	ug/Kg	☼	08/08/17 10:37	08/10/17 14:25	1
Ethylbenzene	430	U	430	61	ug/Kg	☼	08/08/17 10:37	08/10/17 14:25	1
2-Hexanone	1700	U	1700	150	ug/Kg	☼	08/08/17 10:37	08/10/17 14:25	1
Methylene Chloride	260	J B *	430	110	ug/Kg	☼	08/08/17 10:37	08/10/17 14:25	1
4-Methyl-2-pentanone (MIBK)	1700	U	1700	69	ug/Kg	☼	08/08/17 10:37	08/10/17 14:25	1
Styrene	430	U	430	17	ug/Kg	☼	08/08/17 10:37	08/10/17 14:25	1
1,1,2,2-Tetrachloroethane	430	U	430	42	ug/Kg	☼	08/08/17 10:37	08/10/17 14:25	1
Tetrachloroethene	430	U	430	36	ug/Kg	☼	08/08/17 10:37	08/10/17 14:25	1
Toluene	430	U	430	42	ug/Kg	☼	08/08/17 10:37	08/10/17 14:25	1
Trichloroethene	130	J	430	64	ug/Kg	☼	08/08/17 10:37	08/10/17 14:25	1
Vinyl chloride	430	U	430	29	ug/Kg	☼	08/08/17 10:37	08/10/17 14:25	1
Xylenes, Total	860	U	860	48	ug/Kg	☼	08/08/17 10:37	08/10/17 14:25	1
1,1,1-Trichloroethane	430	U	430	48	ug/Kg	☼	08/08/17 10:37	08/10/17 14:25	1
1,1,2-Trichloroethane	430	U	430	40	ug/Kg	☼	08/08/17 10:37	08/10/17 14:25	1
Cyclohexane	860	U	860	52	ug/Kg	☼	08/08/17 10:37	08/10/17 14:25	1
1,2-Dibromo-3-Chloropropane	860	U	860	83	ug/Kg	☼	08/08/17 10:37	08/10/17 14:25	1
Ethylene Dibromide	430	U	430	40	ug/Kg	☼	08/08/17 10:37	08/10/17 14:25	1
Dichlorodifluoromethane	430	U	430	38	ug/Kg	☼	08/08/17 10:37	08/10/17 14:25	1
cis-1,2-Dichloroethene	430	U	430	61	ug/Kg	☼	08/08/17 10:37	08/10/17 14:25	1
trans-1,2-Dichloroethene	430	U	430	61	ug/Kg	☼	08/08/17 10:37	08/10/17 14:25	1
Isopropylbenzene	430	U	430	59	ug/Kg	☼	08/08/17 10:37	08/10/17 14:25	1
Methyl acetate	2200	U	2200	130	ug/Kg	☼	08/08/17 10:37	08/10/17 14:25	1
Methyl tert-butyl ether	430	U	430	45	ug/Kg	☼	08/08/17 10:37	08/10/17 14:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	430	U	430	40	ug/Kg	☼	08/08/17 10:37	08/10/17 14:25	1
1,2,4-Trichlorobenzene	430	U	430	45	ug/Kg	☼	08/08/17 10:37	08/10/17 14:25	1
1,2-Dichlorobenzene	430	U	430	31	ug/Kg	☼	08/08/17 10:37	08/10/17 14:25	1
1,3-Dichlorobenzene	430	U	430	66	ug/Kg	☼	08/08/17 10:37	08/10/17 14:25	1
1,4-Dichlorobenzene	430	U	430	47	ug/Kg	☼	08/08/17 10:37	08/10/17 14:25	1
Trichlorofluoromethane	430	U	430	59	ug/Kg	☼	08/08/17 10:37	08/10/17 14:25	1
Chlorodibromomethane	430	U	430	59	ug/Kg	☼	08/08/17 10:37	08/10/17 14:25	1
Methylcyclohexane	860	U	860	64	ug/Kg	☼	08/08/17 10:37	08/10/17 14:25	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080217-SK-023

Date Collected: 08/02/17 09:55

Date Received: 08/05/17 09:30

Lab Sample ID: 240-83321-2

Matrix: Solid

Percent Solids: 73.7

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	128		64 - 144	08/08/17 10:37	08/10/17 14:25	1
4-Bromofluorobenzene (Surr)	133		58 - 142	08/08/17 10:37	08/10/17 14:25	1
Toluene-d8 (Surr)	111		61 - 137	08/08/17 10:37	08/10/17 14:25	1
Dibromofluoromethane (Surr)	115		31 - 155	08/08/17 10:37	08/10/17 14:25	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080217-SK-023

Lab Sample ID: 240-83321-2

Date Collected: 08/02/17 09:55

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 73.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	68	U	68	33	ug/Kg	☼	08/08/17 08:59	08/10/17 18:14	1
Aroclor-1221	68	U	68	31	ug/Kg	☼	08/08/17 08:59	08/10/17 18:14	1
Aroclor-1232	68	U	68	22	ug/Kg	☼	08/08/17 08:59	08/10/17 18:14	1
Aroclor-1242	68	U	68	27	ug/Kg	☼	08/08/17 08:59	08/10/17 18:14	1
Aroclor-1248	68	U	68	23	ug/Kg	☼	08/08/17 08:59	08/10/17 18:14	1
Aroclor-1254	68	U	68	19	ug/Kg	☼	08/08/17 08:59	08/10/17 18:14	1
Aroclor-1260	68	U	68	24	ug/Kg	☼	08/08/17 08:59	08/10/17 18:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	90		14 - 128	08/08/17 08:59	08/10/17 18:14	1
DCB Decachlorobiphenyl	106		10 - 132	08/08/17 08:59	08/10/17 18:14	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080217-SK-023

Lab Sample ID: 240-83321-2

Date Collected: 08/02/17 09:55

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 73.7

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	73.7		0.1	0.1	%			08/07/17 09:32	1
Percent Moisture	26.3		0.1	0.1	%			08/07/17 09:32	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080217-SK-024

Lab Sample ID: 240-83321-3

Date Collected: 08/02/17 12:15

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 87.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	210	J	1300	120	ug/Kg	☼	08/08/17 10:37	08/10/17 14:47	1
Benzene	320	U	320	30	ug/Kg	☼	08/08/17 10:37	08/10/17 14:47	1
Dichlorobromomethane	320	U	320	23	ug/Kg	☼	08/08/17 10:37	08/10/17 14:47	1
Bromoform	320	U	320	29	ug/Kg	☼	08/08/17 10:37	08/10/17 14:47	1
Bromomethane	320	U	320	35	ug/Kg	☼	08/08/17 10:37	08/10/17 14:47	1
2-Butanone (MEK)	1300	U	1300	63	ug/Kg	☼	08/08/17 10:37	08/10/17 14:47	1
Carbon disulfide	320	U	320	23	ug/Kg	☼	08/08/17 10:37	08/10/17 14:47	1
Carbon tetrachloride	320	U	320	34	ug/Kg	☼	08/08/17 10:37	08/10/17 14:47	1
Chlorobenzene	320	U	320	38	ug/Kg	☼	08/08/17 10:37	08/10/17 14:47	1
Chloroethane	320	U	320	35	ug/Kg	☼	08/08/17 10:37	08/10/17 14:47	1
Chloroform	320	U	320	30	ug/Kg	☼	08/08/17 10:37	08/10/17 14:47	1
Chloromethane	320	U	320	23	ug/Kg	☼	08/08/17 10:37	08/10/17 14:47	1
1,1-Dichloroethane	320	U	320	39	ug/Kg	☼	08/08/17 10:37	08/10/17 14:47	1
1,2-Dichloroethane	320	U	320	38	ug/Kg	☼	08/08/17 10:37	08/10/17 14:47	1
1,1-Dichloroethene	320	U	320	45	ug/Kg	☼	08/08/17 10:37	08/10/17 14:47	1
1,2-Dichloropropane	320	U	320	38	ug/Kg	☼	08/08/17 10:37	08/10/17 14:47	1
cis-1,3-Dichloropropene	320	U	320	29	ug/Kg	☼	08/08/17 10:37	08/10/17 14:47	1
trans-1,3-Dichloropropene	320	U	320	19	ug/Kg	☼	08/08/17 10:37	08/10/17 14:47	1
Ethylbenzene	320	U	320	44	ug/Kg	☼	08/08/17 10:37	08/10/17 14:47	1
2-Hexanone	1300	U	1300	110	ug/Kg	☼	08/08/17 10:37	08/10/17 14:47	1
Methylene Chloride	210	J B *	320	82	ug/Kg	☼	08/08/17 10:37	08/10/17 14:47	1
4-Methyl-2-pentanone (MIBK)	1300	U	1300	50	ug/Kg	☼	08/08/17 10:37	08/10/17 14:47	1
Styrene	320	U	320	13	ug/Kg	☼	08/08/17 10:37	08/10/17 14:47	1
1,1,2,2-Tetrachloroethane	320	U	320	30	ug/Kg	☼	08/08/17 10:37	08/10/17 14:47	1
Tetrachloroethene	320	U	320	26	ug/Kg	☼	08/08/17 10:37	08/10/17 14:47	1
Toluene	320	U	320	30	ug/Kg	☼	08/08/17 10:37	08/10/17 14:47	1
Trichloroethene	320	U	320	47	ug/Kg	☼	08/08/17 10:37	08/10/17 14:47	1
Vinyl chloride	320	U	320	21	ug/Kg	☼	08/08/17 10:37	08/10/17 14:47	1
Xylenes, Total	630	U	630	35	ug/Kg	☼	08/08/17 10:37	08/10/17 14:47	1
1,1,1-Trichloroethane	320	U	320	35	ug/Kg	☼	08/08/17 10:37	08/10/17 14:47	1
1,1,2-Trichloroethane	320	U	320	29	ug/Kg	☼	08/08/17 10:37	08/10/17 14:47	1
Cyclohexane	630	U	630	38	ug/Kg	☼	08/08/17 10:37	08/10/17 14:47	1
1,2-Dibromo-3-Chloropropane	630	U	630	60	ug/Kg	☼	08/08/17 10:37	08/10/17 14:47	1
Ethylene Dibromide	320	U	320	29	ug/Kg	☼	08/08/17 10:37	08/10/17 14:47	1
Dichlorodifluoromethane	320	U	320	28	ug/Kg	☼	08/08/17 10:37	08/10/17 14:47	1
cis-1,2-Dichloroethene	320	U	320	44	ug/Kg	☼	08/08/17 10:37	08/10/17 14:47	1
trans-1,2-Dichloroethene	320	U	320	44	ug/Kg	☼	08/08/17 10:37	08/10/17 14:47	1
Isopropylbenzene	320	U	320	43	ug/Kg	☼	08/08/17 10:37	08/10/17 14:47	1
Methyl acetate	1600	U	1600	95	ug/Kg	☼	08/08/17 10:37	08/10/17 14:47	1
Methyl tert-butyl ether	320	U	320	33	ug/Kg	☼	08/08/17 10:37	08/10/17 14:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	320	U	320	29	ug/Kg	☼	08/08/17 10:37	08/10/17 14:47	1
1,2,4-Trichlorobenzene	320	U	320	33	ug/Kg	☼	08/08/17 10:37	08/10/17 14:47	1
1,2-Dichlorobenzene	320	U	320	23	ug/Kg	☼	08/08/17 10:37	08/10/17 14:47	1
1,3-Dichlorobenzene	320	U	320	48	ug/Kg	☼	08/08/17 10:37	08/10/17 14:47	1
1,4-Dichlorobenzene	320	U	320	34	ug/Kg	☼	08/08/17 10:37	08/10/17 14:47	1
Trichlorofluoromethane	320	U	320	43	ug/Kg	☼	08/08/17 10:37	08/10/17 14:47	1
Chlorodibromomethane	320	U	320	43	ug/Kg	☼	08/08/17 10:37	08/10/17 14:47	1
Methylcyclohexane	630	U	630	47	ug/Kg	☼	08/08/17 10:37	08/10/17 14:47	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080217-SK-024

Date Collected: 08/02/17 12:15

Date Received: 08/05/17 09:30

Lab Sample ID: 240-83321-3

Matrix: Solid

Percent Solids: 87.1

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	137		64 - 144	08/08/17 10:37	08/10/17 14:47	1
4-Bromofluorobenzene (Surr)	147	X	58 - 142	08/08/17 10:37	08/10/17 14:47	1
Toluene-d8 (Surr)	117		61 - 137	08/08/17 10:37	08/10/17 14:47	1
Dibromofluoromethane (Surr)	123		31 - 155	08/08/17 10:37	08/10/17 14:47	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080217-SK-024

Lab Sample ID: 240-83321-3

Date Collected: 08/02/17 12:15

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 87.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	57	U	57	27	ug/Kg	☼	08/08/17 08:59	08/10/17 18:33	1
Aroclor-1221	57	U	57	26	ug/Kg	☼	08/08/17 08:59	08/10/17 18:33	1
Aroclor-1232	57	U	57	18	ug/Kg	☼	08/08/17 08:59	08/10/17 18:33	1
Aroclor-1242	57	U	57	23	ug/Kg	☼	08/08/17 08:59	08/10/17 18:33	1
Aroclor-1248	57	U	57	19	ug/Kg	☼	08/08/17 08:59	08/10/17 18:33	1
Aroclor-1254	57	U	57	16	ug/Kg	☼	08/08/17 08:59	08/10/17 18:33	1
Aroclor-1260	57	U	57	20	ug/Kg	☼	08/08/17 08:59	08/10/17 18:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	85		14 - 128	08/08/17 08:59	08/10/17 18:33	1
DCB Decachlorobiphenyl	124		10 - 132	08/08/17 08:59	08/10/17 18:33	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080217-SK-024

Lab Sample ID: 240-83321-3

Date Collected: 08/02/17 12:15

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 87.1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	87.1		0.1	0.1	%			08/07/17 09:32	1
Percent Moisture	12.9		0.1	0.1	%			08/07/17 09:32	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080217-SK-025

Lab Sample ID: 240-83321-4

Date Collected: 08/02/17 12:20

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1400	U	1400	140	ug/Kg	☼	08/08/17 10:37	08/10/17 15:08	1
Benzene	350	U	350	34	ug/Kg	☼	08/08/17 10:37	08/10/17 15:08	1
Dichlorobromomethane	350	U	350	25	ug/Kg	☼	08/08/17 10:37	08/10/17 15:08	1
Bromoform	350	U	350	32	ug/Kg	☼	08/08/17 10:37	08/10/17 15:08	1
Bromomethane	350	U	350	39	ug/Kg	☼	08/08/17 10:37	08/10/17 15:08	1
2-Butanone (MEK)	1400	U	1400	70	ug/Kg	☼	08/08/17 10:37	08/10/17 15:08	1
Carbon disulfide	350	U	350	25	ug/Kg	☼	08/08/17 10:37	08/10/17 15:08	1
Carbon tetrachloride	350	U	350	38	ug/Kg	☼	08/08/17 10:37	08/10/17 15:08	1
Chlorobenzene	350	U	350	42	ug/Kg	☼	08/08/17 10:37	08/10/17 15:08	1
Chloroethane	350	U	350	39	ug/Kg	☼	08/08/17 10:37	08/10/17 15:08	1
Chloroform	350	U	350	34	ug/Kg	☼	08/08/17 10:37	08/10/17 15:08	1
Chloromethane	350	U	350	25	ug/Kg	☼	08/08/17 10:37	08/10/17 15:08	1
1,1-Dichloroethane	350	U	350	44	ug/Kg	☼	08/08/17 10:37	08/10/17 15:08	1
1,2-Dichloroethane	350	U	350	42	ug/Kg	☼	08/08/17 10:37	08/10/17 15:08	1
1,1-Dichloroethene	350	U	350	51	ug/Kg	☼	08/08/17 10:37	08/10/17 15:08	1
1,2-Dichloropropane	350	U	350	42	ug/Kg	☼	08/08/17 10:37	08/10/17 15:08	1
cis-1,3-Dichloropropene	350	U	350	32	ug/Kg	☼	08/08/17 10:37	08/10/17 15:08	1
trans-1,3-Dichloropropene	350	U	350	21	ug/Kg	☼	08/08/17 10:37	08/10/17 15:08	1
Ethylbenzene	350	U	350	49	ug/Kg	☼	08/08/17 10:37	08/10/17 15:08	1
2-Hexanone	1400	U	1400	120	ug/Kg	☼	08/08/17 10:37	08/10/17 15:08	1
Methylene Chloride	210	J B *	350	92	ug/Kg	☼	08/08/17 10:37	08/10/17 15:08	1
4-Methyl-2-pentanone (MIBK)	1400	U	1400	56	ug/Kg	☼	08/08/17 10:37	08/10/17 15:08	1
Styrene	350	U	350	14	ug/Kg	☼	08/08/17 10:37	08/10/17 15:08	1
1,1,2,2-Tetrachloroethane	350	U	350	34	ug/Kg	☼	08/08/17 10:37	08/10/17 15:08	1
Tetrachloroethene	350	U	350	30	ug/Kg	☼	08/08/17 10:37	08/10/17 15:08	1
Toluene	350	U	350	34	ug/Kg	☼	08/08/17 10:37	08/10/17 15:08	1
Trichloroethene	350	U	350	52	ug/Kg	☼	08/08/17 10:37	08/10/17 15:08	1
Vinyl chloride	350	U	350	24	ug/Kg	☼	08/08/17 10:37	08/10/17 15:08	1
Xylenes, Total	700	U	700	39	ug/Kg	☼	08/08/17 10:37	08/10/17 15:08	1
1,1,1-Trichloroethane	350	U	350	39	ug/Kg	☼	08/08/17 10:37	08/10/17 15:08	1
1,1,2-Trichloroethane	350	U	350	32	ug/Kg	☼	08/08/17 10:37	08/10/17 15:08	1
Cyclohexane	700	U	700	42	ug/Kg	☼	08/08/17 10:37	08/10/17 15:08	1
1,2-Dibromo-3-Chloropropane	700	U	700	68	ug/Kg	☼	08/08/17 10:37	08/10/17 15:08	1
Ethylene Dibromide	350	U	350	32	ug/Kg	☼	08/08/17 10:37	08/10/17 15:08	1
Dichlorodifluoromethane	350	U	350	31	ug/Kg	☼	08/08/17 10:37	08/10/17 15:08	1
cis-1,2-Dichloroethene	350	U	350	49	ug/Kg	☼	08/08/17 10:37	08/10/17 15:08	1
trans-1,2-Dichloroethene	350	U	350	49	ug/Kg	☼	08/08/17 10:37	08/10/17 15:08	1
Isopropylbenzene	350	U	350	48	ug/Kg	☼	08/08/17 10:37	08/10/17 15:08	1
Methyl acetate	1800	U	1800	110	ug/Kg	☼	08/08/17 10:37	08/10/17 15:08	1
Methyl tert-butyl ether	350	U	350	37	ug/Kg	☼	08/08/17 10:37	08/10/17 15:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	350	U	350	32	ug/Kg	☼	08/08/17 10:37	08/10/17 15:08	1
1,2,4-Trichlorobenzene	350	U	350	37	ug/Kg	☼	08/08/17 10:37	08/10/17 15:08	1
1,2-Dichlorobenzene	350	U	350	25	ug/Kg	☼	08/08/17 10:37	08/10/17 15:08	1
1,3-Dichlorobenzene	350	U	350	54	ug/Kg	☼	08/08/17 10:37	08/10/17 15:08	1
1,4-Dichlorobenzene	350	U	350	38	ug/Kg	☼	08/08/17 10:37	08/10/17 15:08	1
Trichlorofluoromethane	350	U	350	48	ug/Kg	☼	08/08/17 10:37	08/10/17 15:08	1
Chlorodibromomethane	350	U	350	48	ug/Kg	☼	08/08/17 10:37	08/10/17 15:08	1
Methylcyclohexane	700	U	700	52	ug/Kg	☼	08/08/17 10:37	08/10/17 15:08	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080217-SK-025

Date Collected: 08/02/17 12:20

Date Received: 08/05/17 09:30

Lab Sample ID: 240-83321-4

Matrix: Solid

Percent Solids: 81.5

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	143		64 - 144	08/08/17 10:37	08/10/17 15:08	1
4-Bromofluorobenzene (Surr)	149	X	58 - 142	08/08/17 10:37	08/10/17 15:08	1
Toluene-d8 (Surr)	122		61 - 137	08/08/17 10:37	08/10/17 15:08	1
Dibromofluoromethane (Surr)	126		31 - 155	08/08/17 10:37	08/10/17 15:08	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080217-SK-025

Lab Sample ID: 240-83321-4

Date Collected: 08/02/17 12:20

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	61	U	61	29	ug/Kg	☼	08/08/17 08:59	08/10/17 18:52	1
Aroclor-1221	61	U	61	28	ug/Kg	☼	08/08/17 08:59	08/10/17 18:52	1
Aroclor-1232	61	U	61	20	ug/Kg	☼	08/08/17 08:59	08/10/17 18:52	1
Aroclor-1242	61	U	61	25	ug/Kg	☼	08/08/17 08:59	08/10/17 18:52	1
Aroclor-1248	61	U	61	21	ug/Kg	☼	08/08/17 08:59	08/10/17 18:52	1
Aroclor-1254	61	U	61	17	ug/Kg	☼	08/08/17 08:59	08/10/17 18:52	1
Aroclor-1260	61	U	61	22	ug/Kg	☼	08/08/17 08:59	08/10/17 18:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	85		14 - 128	08/08/17 08:59	08/10/17 18:52	1
DCB Decachlorobiphenyl	121		10 - 132	08/08/17 08:59	08/10/17 18:52	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080217-SK-025

Lab Sample ID: 240-83321-4

Date Collected: 08/02/17 12:20

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 81.5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	81.5		0.1	0.1	%			08/07/17 09:32	1
Percent Moisture	18.5		0.1	0.1	%			08/07/17 09:32	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080217-SK-026

Lab Sample ID: 240-83321-5

Date Collected: 08/02/17 12:25

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 78.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1400	U	1400	130	ug/Kg	☼	08/08/17 10:37	08/10/17 15:30	1
Benzene	350	U	350	33	ug/Kg	☼	08/08/17 10:37	08/10/17 15:30	1
Dichlorobromomethane	350	U	350	25	ug/Kg	☼	08/08/17 10:37	08/10/17 15:30	1
Bromoform	350	U	350	32	ug/Kg	☼	08/08/17 10:37	08/10/17 15:30	1
Bromomethane	350	U	350	39	ug/Kg	☼	08/08/17 10:37	08/10/17 15:30	1
2-Butanone (MEK)	1400	U	1400	69	ug/Kg	☼	08/08/17 10:37	08/10/17 15:30	1
Carbon disulfide	350	U	350	25	ug/Kg	☼	08/08/17 10:37	08/10/17 15:30	1
Carbon tetrachloride	350	U	350	37	ug/Kg	☼	08/08/17 10:37	08/10/17 15:30	1
Chlorobenzene	350	U	350	41	ug/Kg	☼	08/08/17 10:37	08/10/17 15:30	1
Chloroethane	350	U	350	39	ug/Kg	☼	08/08/17 10:37	08/10/17 15:30	1
Chloroform	350	U	350	33	ug/Kg	☼	08/08/17 10:37	08/10/17 15:30	1
Chloromethane	350	U	350	25	ug/Kg	☼	08/08/17 10:37	08/10/17 15:30	1
1,1-Dichloroethane	350	U	350	43	ug/Kg	☼	08/08/17 10:37	08/10/17 15:30	1
1,2-Dichloroethane	350	U	350	41	ug/Kg	☼	08/08/17 10:37	08/10/17 15:30	1
1,1-Dichloroethene	350	U	350	50	ug/Kg	☼	08/08/17 10:37	08/10/17 15:30	1
1,2-Dichloropropane	350	U	350	41	ug/Kg	☼	08/08/17 10:37	08/10/17 15:30	1
cis-1,3-Dichloropropene	350	U	350	32	ug/Kg	☼	08/08/17 10:37	08/10/17 15:30	1
trans-1,3-Dichloropropene	350	U	350	21	ug/Kg	☼	08/08/17 10:37	08/10/17 15:30	1
Ethylbenzene	350	U	350	48	ug/Kg	☼	08/08/17 10:37	08/10/17 15:30	1
2-Hexanone	1400	U	1400	120	ug/Kg	☼	08/08/17 10:37	08/10/17 15:30	1
Methylene Chloride	240	J B *	350	90	ug/Kg	☼	08/08/17 10:37	08/10/17 15:30	1
4-Methyl-2-pentanone (MIBK)	1400	U	1400	55	ug/Kg	☼	08/08/17 10:37	08/10/17 15:30	1
Styrene	350	U	350	14	ug/Kg	☼	08/08/17 10:37	08/10/17 15:30	1
1,1,2,2-Tetrachloroethane	350	U	350	33	ug/Kg	☼	08/08/17 10:37	08/10/17 15:30	1
Tetrachloroethene	350	U	350	29	ug/Kg	☼	08/08/17 10:37	08/10/17 15:30	1
Toluene	350	U	350	33	ug/Kg	☼	08/08/17 10:37	08/10/17 15:30	1
Trichloroethene	350	U	350	51	ug/Kg	☼	08/08/17 10:37	08/10/17 15:30	1
Vinyl chloride	350	U	350	24	ug/Kg	☼	08/08/17 10:37	08/10/17 15:30	1
Xylenes, Total	690	U	690	39	ug/Kg	☼	08/08/17 10:37	08/10/17 15:30	1
1,1,1-Trichloroethane	350	U	350	39	ug/Kg	☼	08/08/17 10:37	08/10/17 15:30	1
1,1,2-Trichloroethane	350	U	350	32	ug/Kg	☼	08/08/17 10:37	08/10/17 15:30	1
Cyclohexane	690	U	690	41	ug/Kg	☼	08/08/17 10:37	08/10/17 15:30	1
1,2-Dibromo-3-Chloropropane	690	U	690	66	ug/Kg	☼	08/08/17 10:37	08/10/17 15:30	1
Ethylene Dibromide	350	U	350	32	ug/Kg	☼	08/08/17 10:37	08/10/17 15:30	1
Dichlorodifluoromethane	350	U	350	30	ug/Kg	☼	08/08/17 10:37	08/10/17 15:30	1
cis-1,2-Dichloroethene	350	U	350	48	ug/Kg	☼	08/08/17 10:37	08/10/17 15:30	1
trans-1,2-Dichloroethene	350	U	350	48	ug/Kg	☼	08/08/17 10:37	08/10/17 15:30	1
Isopropylbenzene	350	U	350	47	ug/Kg	☼	08/08/17 10:37	08/10/17 15:30	1
Methyl acetate	1700	U	1700	100	ug/Kg	☼	08/08/17 10:37	08/10/17 15:30	1
Methyl tert-butyl ether	350	U	350	36	ug/Kg	☼	08/08/17 10:37	08/10/17 15:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	350	U	350	32	ug/Kg	☼	08/08/17 10:37	08/10/17 15:30	1
1,2,4-Trichlorobenzene	350	U	350	36	ug/Kg	☼	08/08/17 10:37	08/10/17 15:30	1
1,2-Dichlorobenzene	350	U	350	25	ug/Kg	☼	08/08/17 10:37	08/10/17 15:30	1
1,3-Dichlorobenzene	350	U	350	53	ug/Kg	☼	08/08/17 10:37	08/10/17 15:30	1
1,4-Dichlorobenzene	350	U	350	37	ug/Kg	☼	08/08/17 10:37	08/10/17 15:30	1
Trichlorofluoromethane	350	U	350	47	ug/Kg	☼	08/08/17 10:37	08/10/17 15:30	1
Chlorodibromomethane	350	U	350	47	ug/Kg	☼	08/08/17 10:37	08/10/17 15:30	1
Methylcyclohexane	690	U	690	51	ug/Kg	☼	08/08/17 10:37	08/10/17 15:30	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080217-SK-026

Date Collected: 08/02/17 12:25

Date Received: 08/05/17 09:30

Lab Sample ID: 240-83321-5

Matrix: Solid

Percent Solids: 78.5

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	135		64 - 144	08/08/17 10:37	08/10/17 15:30	1
4-Bromofluorobenzene (Surr)	135		58 - 142	08/08/17 10:37	08/10/17 15:30	1
Toluene-d8 (Surr)	116		61 - 137	08/08/17 10:37	08/10/17 15:30	1
Dibromofluoromethane (Surr)	122		31 - 155	08/08/17 10:37	08/10/17 15:30	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080217-SK-026

Lab Sample ID: 240-83321-5

Date Collected: 08/02/17 12:25

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 78.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	63	U	63	30	ug/Kg	☼	08/08/17 08:59	08/10/17 19:11	1
Aroclor-1221	63	U	63	29	ug/Kg	☼	08/08/17 08:59	08/10/17 19:11	1
Aroclor-1232	63	U	63	20	ug/Kg	☼	08/08/17 08:59	08/10/17 19:11	1
Aroclor-1242	63	U	63	25	ug/Kg	☼	08/08/17 08:59	08/10/17 19:11	1
Aroclor-1248	63	U	63	21	ug/Kg	☼	08/08/17 08:59	08/10/17 19:11	1
Aroclor-1254	63	U	63	18	ug/Kg	☼	08/08/17 08:59	08/10/17 19:11	1
Aroclor-1260	63	U	63	23	ug/Kg	☼	08/08/17 08:59	08/10/17 19:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	69		14 - 128	08/08/17 08:59	08/10/17 19:11	1
DCB Decachlorobiphenyl	97		10 - 132	08/08/17 08:59	08/10/17 19:11	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080217-SK-026

Lab Sample ID: 240-83321-5

Date Collected: 08/02/17 12:25

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 78.5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	78.5		0.1	0.1	%			08/07/17 09:32	1
Percent Moisture	21.5		0.1	0.1	%			08/07/17 09:32	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080217-SK-027

Lab Sample ID: 240-83321-6

Date Collected: 08/02/17 14:50

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 74.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	450	J	1500	140	ug/Kg	☼	08/08/17 10:37	08/10/17 15:51	1
Benzene	360	U	360	35	ug/Kg	☼	08/08/17 10:37	08/10/17 15:51	1
Dichlorobromomethane	360	U	360	26	ug/Kg	☼	08/08/17 10:37	08/10/17 15:51	1
Bromoform	360	U	360	34	ug/Kg	☼	08/08/17 10:37	08/10/17 15:51	1
Bromomethane	360	U	360	41	ug/Kg	☼	08/08/17 10:37	08/10/17 15:51	1
2-Butanone (MEK)	1500	U	1500	73	ug/Kg	☼	08/08/17 10:37	08/10/17 15:51	1
Carbon disulfide	360	U	360	26	ug/Kg	☼	08/08/17 10:37	08/10/17 15:51	1
Carbon tetrachloride	360	U	360	39	ug/Kg	☼	08/08/17 10:37	08/10/17 15:51	1
Chlorobenzene	360	U	360	44	ug/Kg	☼	08/08/17 10:37	08/10/17 15:51	1
Chloroethane	360	U	360	41	ug/Kg	☼	08/08/17 10:37	08/10/17 15:51	1
Chloroform	360	U	360	35	ug/Kg	☼	08/08/17 10:37	08/10/17 15:51	1
Chloromethane	360	U	360	26	ug/Kg	☼	08/08/17 10:37	08/10/17 15:51	1
1,1-Dichloroethane	360	U	360	45	ug/Kg	☼	08/08/17 10:37	08/10/17 15:51	1
1,2-Dichloroethane	360	U	360	44	ug/Kg	☼	08/08/17 10:37	08/10/17 15:51	1
1,1-Dichloroethene	360	U	360	53	ug/Kg	☼	08/08/17 10:37	08/10/17 15:51	1
1,2-Dichloropropane	360	U	360	44	ug/Kg	☼	08/08/17 10:37	08/10/17 15:51	1
cis-1,3-Dichloropropene	360	U	360	34	ug/Kg	☼	08/08/17 10:37	08/10/17 15:51	1
trans-1,3-Dichloropropene	360	U	360	22	ug/Kg	☼	08/08/17 10:37	08/10/17 15:51	1
Ethylbenzene	360	U	360	51	ug/Kg	☼	08/08/17 10:37	08/10/17 15:51	1
2-Hexanone	1500	U	1500	130	ug/Kg	☼	08/08/17 10:37	08/10/17 15:51	1
Methylene Chloride	230	J B *	360	95	ug/Kg	☼	08/08/17 10:37	08/10/17 15:51	1
4-Methyl-2-pentanone (MIBK)	1500	U	1500	58	ug/Kg	☼	08/08/17 10:37	08/10/17 15:51	1
Styrene	360	U	360	15	ug/Kg	☼	08/08/17 10:37	08/10/17 15:51	1
1,1,2,2-Tetrachloroethane	360	U	360	35	ug/Kg	☼	08/08/17 10:37	08/10/17 15:51	1
Tetrachloroethene	360	U	360	31	ug/Kg	☼	08/08/17 10:37	08/10/17 15:51	1
Toluene	360	U	360	35	ug/Kg	☼	08/08/17 10:37	08/10/17 15:51	1
Trichloroethene	360	U	360	54	ug/Kg	☼	08/08/17 10:37	08/10/17 15:51	1
Vinyl chloride	360	U	360	25	ug/Kg	☼	08/08/17 10:37	08/10/17 15:51	1
Xylenes, Total	730	U	730	41	ug/Kg	☼	08/08/17 10:37	08/10/17 15:51	1
1,1,1-Trichloroethane	360	U	360	41	ug/Kg	☼	08/08/17 10:37	08/10/17 15:51	1
1,1,2-Trichloroethane	360	U	360	34	ug/Kg	☼	08/08/17 10:37	08/10/17 15:51	1
Cyclohexane	730	U	730	44	ug/Kg	☼	08/08/17 10:37	08/10/17 15:51	1
1,2-Dibromo-3-Chloropropane	730	U	730	70	ug/Kg	☼	08/08/17 10:37	08/10/17 15:51	1
Ethylene Dibromide	360	U	360	34	ug/Kg	☼	08/08/17 10:37	08/10/17 15:51	1
Dichlorodifluoromethane	360	U	360	32	ug/Kg	☼	08/08/17 10:37	08/10/17 15:51	1
cis-1,2-Dichloroethene	360	U	360	51	ug/Kg	☼	08/08/17 10:37	08/10/17 15:51	1
trans-1,2-Dichloroethene	360	U	360	51	ug/Kg	☼	08/08/17 10:37	08/10/17 15:51	1
Isopropylbenzene	360	U	360	50	ug/Kg	☼	08/08/17 10:37	08/10/17 15:51	1
Methyl acetate	120	J	1800	110	ug/Kg	☼	08/08/17 10:37	08/10/17 15:51	1
Methyl tert-butyl ether	360	U	360	38	ug/Kg	☼	08/08/17 10:37	08/10/17 15:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	360	U	360	34	ug/Kg	☼	08/08/17 10:37	08/10/17 15:51	1
1,2,4-Trichlorobenzene	360	U	360	38	ug/Kg	☼	08/08/17 10:37	08/10/17 15:51	1
1,2-Dichlorobenzene	360	U	360	26	ug/Kg	☼	08/08/17 10:37	08/10/17 15:51	1
1,3-Dichlorobenzene	360	U	360	55	ug/Kg	☼	08/08/17 10:37	08/10/17 15:51	1
1,4-Dichlorobenzene	360	U	360	39	ug/Kg	☼	08/08/17 10:37	08/10/17 15:51	1
Trichlorofluoromethane	360	U	360	50	ug/Kg	☼	08/08/17 10:37	08/10/17 15:51	1
Chlorodibromomethane	360	U	360	50	ug/Kg	☼	08/08/17 10:37	08/10/17 15:51	1
Methylcyclohexane	730	U	730	54	ug/Kg	☼	08/08/17 10:37	08/10/17 15:51	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080217-SK-027

Date Collected: 08/02/17 14:50

Date Received: 08/05/17 09:30

Lab Sample ID: 240-83321-6

Matrix: Solid

Percent Solids: 74.1

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	143		64 - 144	08/08/17 10:37	08/10/17 15:51	1
4-Bromofluorobenzene (Surr)	152	X	58 - 142	08/08/17 10:37	08/10/17 15:51	1
Toluene-d8 (Surr)	126		61 - 137	08/08/17 10:37	08/10/17 15:51	1
Dibromofluoromethane (Surr)	130		31 - 155	08/08/17 10:37	08/10/17 15:51	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080217-SK-027

Lab Sample ID: 240-83321-6

Date Collected: 08/02/17 14:50

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 74.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	68	U	68	33	ug/Kg	☼	08/08/17 08:59	08/10/17 19:30	1
Aroclor-1221	68	U	68	31	ug/Kg	☼	08/08/17 08:59	08/10/17 19:30	1
Aroclor-1232	68	U	68	22	ug/Kg	☼	08/08/17 08:59	08/10/17 19:30	1
Aroclor-1242	68	U	68	27	ug/Kg	☼	08/08/17 08:59	08/10/17 19:30	1
Aroclor-1248	68	U	68	23	ug/Kg	☼	08/08/17 08:59	08/10/17 19:30	1
Aroclor-1254	68	U	68	19	ug/Kg	☼	08/08/17 08:59	08/10/17 19:30	1
Aroclor-1260	68	U	68	24	ug/Kg	☼	08/08/17 08:59	08/10/17 19:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	69		14 - 128	08/08/17 08:59	08/10/17 19:30	1
DCB Decachlorobiphenyl	78		10 - 132	08/08/17 08:59	08/10/17 19:30	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080217-SK-027

Lab Sample ID: 240-83321-6

Date Collected: 08/02/17 14:50

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 74.1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	74.1		0.1	0.1	%			08/07/17 09:32	1
Percent Moisture	25.9		0.1	0.1	%			08/07/17 09:32	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080217-SK-028

Lab Sample ID: 240-83321-7

Date Collected: 08/02/17 14:55

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	370	J	1400	140	ug/Kg	☼	08/08/17 10:37	08/10/17 16:12	1
Benzene	350	U	350	33	ug/Kg	☼	08/08/17 10:37	08/10/17 16:12	1
Dichlorobromomethane	350	U	350	25	ug/Kg	☼	08/08/17 10:37	08/10/17 16:12	1
Bromoform	350	U	350	32	ug/Kg	☼	08/08/17 10:37	08/10/17 16:12	1
Bromomethane	350	U	350	39	ug/Kg	☼	08/08/17 10:37	08/10/17 16:12	1
2-Butanone (MEK)	1400	U	1400	70	ug/Kg	☼	08/08/17 10:37	08/10/17 16:12	1
Carbon disulfide	350	U	350	25	ug/Kg	☼	08/08/17 10:37	08/10/17 16:12	1
Carbon tetrachloride	350	U	350	38	ug/Kg	☼	08/08/17 10:37	08/10/17 16:12	1
Chlorobenzene	350	U	350	42	ug/Kg	☼	08/08/17 10:37	08/10/17 16:12	1
Chloroethane	350	U	350	39	ug/Kg	☼	08/08/17 10:37	08/10/17 16:12	1
Chloroform	350	U	350	33	ug/Kg	☼	08/08/17 10:37	08/10/17 16:12	1
Chloromethane	350	U	350	25	ug/Kg	☼	08/08/17 10:37	08/10/17 16:12	1
1,1-Dichloroethane	350	U	350	43	ug/Kg	☼	08/08/17 10:37	08/10/17 16:12	1
1,2-Dichloroethane	350	U	350	42	ug/Kg	☼	08/08/17 10:37	08/10/17 16:12	1
1,1-Dichloroethene	350	U	350	50	ug/Kg	☼	08/08/17 10:37	08/10/17 16:12	1
1,2-Dichloropropane	350	U	350	42	ug/Kg	☼	08/08/17 10:37	08/10/17 16:12	1
cis-1,3-Dichloropropene	350	U	350	32	ug/Kg	☼	08/08/17 10:37	08/10/17 16:12	1
trans-1,3-Dichloropropene	350	U	350	21	ug/Kg	☼	08/08/17 10:37	08/10/17 16:12	1
Ethylbenzene	350	U	350	49	ug/Kg	☼	08/08/17 10:37	08/10/17 16:12	1
2-Hexanone	1400	U	1400	120	ug/Kg	☼	08/08/17 10:37	08/10/17 16:12	1
Methylene Chloride	250	J B *	350	91	ug/Kg	☼	08/08/17 10:37	08/10/17 16:12	1
4-Methyl-2-pentanone (MIBK)	1400	U	1400	56	ug/Kg	☼	08/08/17 10:37	08/10/17 16:12	1
Styrene	350	U	350	14	ug/Kg	☼	08/08/17 10:37	08/10/17 16:12	1
1,1,2,2-Tetrachloroethane	350	U	350	33	ug/Kg	☼	08/08/17 10:37	08/10/17 16:12	1
Tetrachloroethene	350	U	350	29	ug/Kg	☼	08/08/17 10:37	08/10/17 16:12	1
Toluene	350	U	350	33	ug/Kg	☼	08/08/17 10:37	08/10/17 16:12	1
Trichloroethene	350	U	350	52	ug/Kg	☼	08/08/17 10:37	08/10/17 16:12	1
Vinyl chloride	350	U	350	24	ug/Kg	☼	08/08/17 10:37	08/10/17 16:12	1
Xylenes, Total	700	U	700	39	ug/Kg	☼	08/08/17 10:37	08/10/17 16:12	1
1,1,1-Trichloroethane	350	U	350	39	ug/Kg	☼	08/08/17 10:37	08/10/17 16:12	1
1,1,2-Trichloroethane	350	U	350	32	ug/Kg	☼	08/08/17 10:37	08/10/17 16:12	1
Cyclohexane	700	U	700	42	ug/Kg	☼	08/08/17 10:37	08/10/17 16:12	1
1,2-Dibromo-3-Chloropropane	700	U	700	67	ug/Kg	☼	08/08/17 10:37	08/10/17 16:12	1
Ethylene Dibromide	350	U	350	32	ug/Kg	☼	08/08/17 10:37	08/10/17 16:12	1
Dichlorodifluoromethane	350	U	350	31	ug/Kg	☼	08/08/17 10:37	08/10/17 16:12	1
cis-1,2-Dichloroethene	350	U	350	49	ug/Kg	☼	08/08/17 10:37	08/10/17 16:12	1
trans-1,2-Dichloroethene	350	U	350	49	ug/Kg	☼	08/08/17 10:37	08/10/17 16:12	1
Isopropylbenzene	350	U	350	47	ug/Kg	☼	08/08/17 10:37	08/10/17 16:12	1
Methyl acetate	1700	U	1700	100	ug/Kg	☼	08/08/17 10:37	08/10/17 16:12	1
Methyl tert-butyl ether	350	U	350	36	ug/Kg	☼	08/08/17 10:37	08/10/17 16:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	350	U	350	32	ug/Kg	☼	08/08/17 10:37	08/10/17 16:12	1
1,2,4-Trichlorobenzene	350	U	350	36	ug/Kg	☼	08/08/17 10:37	08/10/17 16:12	1
1,2-Dichlorobenzene	350	U	350	25	ug/Kg	☼	08/08/17 10:37	08/10/17 16:12	1
1,3-Dichlorobenzene	350	U	350	53	ug/Kg	☼	08/08/17 10:37	08/10/17 16:12	1
1,4-Dichlorobenzene	350	U	350	38	ug/Kg	☼	08/08/17 10:37	08/10/17 16:12	1
Trichlorofluoromethane	350	U	350	47	ug/Kg	☼	08/08/17 10:37	08/10/17 16:12	1
Chlorodibromomethane	350	U	350	47	ug/Kg	☼	08/08/17 10:37	08/10/17 16:12	1
Methylcyclohexane	700	U	700	52	ug/Kg	☼	08/08/17 10:37	08/10/17 16:12	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080217-SK-028

Date Collected: 08/02/17 14:55

Date Received: 08/05/17 09:30

Lab Sample ID: 240-83321-7

Matrix: Solid

Percent Solids: 79.2

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	130		64 - 144	08/08/17 10:37	08/10/17 16:12	1
4-Bromofluorobenzene (Surr)	133		58 - 142	08/08/17 10:37	08/10/17 16:12	1
Toluene-d8 (Surr)	109		61 - 137	08/08/17 10:37	08/10/17 16:12	1
Dibromofluoromethane (Surr)	116		31 - 155	08/08/17 10:37	08/10/17 16:12	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080217-SK-028

Lab Sample ID: 240-83321-7

Date Collected: 08/02/17 14:55

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	63	U	63	30	ug/Kg	☼	08/08/17 08:59	08/10/17 19:49	1
Aroclor-1221	63	U	63	29	ug/Kg	☼	08/08/17 08:59	08/10/17 19:49	1
Aroclor-1232	63	U	63	20	ug/Kg	☼	08/08/17 08:59	08/10/17 19:49	1
Aroclor-1242	63	U	63	25	ug/Kg	☼	08/08/17 08:59	08/10/17 19:49	1
Aroclor-1248	63	U	63	21	ug/Kg	☼	08/08/17 08:59	08/10/17 19:49	1
Aroclor-1254	63	U	63	18	ug/Kg	☼	08/08/17 08:59	08/10/17 19:49	1
Aroclor-1260	63	U	63	23	ug/Kg	☼	08/08/17 08:59	08/10/17 19:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	71		14 - 128	08/08/17 08:59	08/10/17 19:49	1
DCB Decachlorobiphenyl	79		10 - 132	08/08/17 08:59	08/10/17 19:49	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080217-SK-028

Lab Sample ID: 240-83321-7

Date Collected: 08/02/17 14:55

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 79.2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	79.2		0.1	0.1	%			08/07/17 09:32	1
Percent Moisture	20.8		0.1	0.1	%			08/07/17 09:32	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080217-SK-029

Lab Sample ID: 240-83321-8

Date Collected: 08/02/17 16:00

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 81.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	130	J	1300	120	ug/Kg	☼	08/08/17 10:37	08/10/17 16:34	1
Benzene	320	U	320	31	ug/Kg	☼	08/08/17 10:37	08/10/17 16:34	1
Dichlorobromomethane	320	U	320	23	ug/Kg	☼	08/08/17 10:37	08/10/17 16:34	1
Bromoform	320	U	320	29	ug/Kg	☼	08/08/17 10:37	08/10/17 16:34	1
Bromomethane	320	U	320	36	ug/Kg	☼	08/08/17 10:37	08/10/17 16:34	1
2-Butanone (MEK)	1300	U	1300	64	ug/Kg	☼	08/08/17 10:37	08/10/17 16:34	1
Carbon disulfide	320	U	320	23	ug/Kg	☼	08/08/17 10:37	08/10/17 16:34	1
Carbon tetrachloride	320	U	320	34	ug/Kg	☼	08/08/17 10:37	08/10/17 16:34	1
Chlorobenzene	320	U	320	38	ug/Kg	☼	08/08/17 10:37	08/10/17 16:34	1
Chloroethane	320	U	320	36	ug/Kg	☼	08/08/17 10:37	08/10/17 16:34	1
Chloroform	320	U	320	31	ug/Kg	☼	08/08/17 10:37	08/10/17 16:34	1
Chloromethane	320	U	320	23	ug/Kg	☼	08/08/17 10:37	08/10/17 16:34	1
1,1-Dichloroethane	320	U	320	39	ug/Kg	☼	08/08/17 10:37	08/10/17 16:34	1
1,2-Dichloroethane	320	U	320	38	ug/Kg	☼	08/08/17 10:37	08/10/17 16:34	1
1,1-Dichloroethene	320	U	320	46	ug/Kg	☼	08/08/17 10:37	08/10/17 16:34	1
1,2-Dichloropropane	320	U	320	38	ug/Kg	☼	08/08/17 10:37	08/10/17 16:34	1
cis-1,3-Dichloropropene	320	U	320	29	ug/Kg	☼	08/08/17 10:37	08/10/17 16:34	1
trans-1,3-Dichloropropene	320	U	320	19	ug/Kg	☼	08/08/17 10:37	08/10/17 16:34	1
Ethylbenzene	320	U	320	45	ug/Kg	☼	08/08/17 10:37	08/10/17 16:34	1
2-Hexanone	1300	U	1300	110	ug/Kg	☼	08/08/17 10:37	08/10/17 16:34	1
Methylene Chloride	220	J B *	320	83	ug/Kg	☼	08/08/17 10:37	08/10/17 16:34	1
4-Methyl-2-pentanone (MIBK)	1300	U	1300	51	ug/Kg	☼	08/08/17 10:37	08/10/17 16:34	1
Styrene	320	U	320	13	ug/Kg	☼	08/08/17 10:37	08/10/17 16:34	1
1,1,2,2-Tetrachloroethane	320	U	320	31	ug/Kg	☼	08/08/17 10:37	08/10/17 16:34	1
Tetrachloroethene	320	U	320	27	ug/Kg	☼	08/08/17 10:37	08/10/17 16:34	1
Toluene	320	U	320	31	ug/Kg	☼	08/08/17 10:37	08/10/17 16:34	1
Trichloroethene	320	U	320	47	ug/Kg	☼	08/08/17 10:37	08/10/17 16:34	1
Vinyl chloride	320	U	320	22	ug/Kg	☼	08/08/17 10:37	08/10/17 16:34	1
Xylenes, Total	640	U	640	36	ug/Kg	☼	08/08/17 10:37	08/10/17 16:34	1
1,1,1-Trichloroethane	320	U	320	36	ug/Kg	☼	08/08/17 10:37	08/10/17 16:34	1
1,1,2-Trichloroethane	320	U	320	29	ug/Kg	☼	08/08/17 10:37	08/10/17 16:34	1
Cyclohexane	640	U	640	38	ug/Kg	☼	08/08/17 10:37	08/10/17 16:34	1
1,2-Dibromo-3-Chloropropane	640	U	640	61	ug/Kg	☼	08/08/17 10:37	08/10/17 16:34	1
Ethylene Dibromide	320	U	320	29	ug/Kg	☼	08/08/17 10:37	08/10/17 16:34	1
Dichlorodifluoromethane	320	U	320	28	ug/Kg	☼	08/08/17 10:37	08/10/17 16:34	1
cis-1,2-Dichloroethene	320	U	320	45	ug/Kg	☼	08/08/17 10:37	08/10/17 16:34	1
trans-1,2-Dichloroethene	320	U	320	45	ug/Kg	☼	08/08/17 10:37	08/10/17 16:34	1
Isopropylbenzene	320	U	320	43	ug/Kg	☼	08/08/17 10:37	08/10/17 16:34	1
Methyl acetate	1600	U	1600	96	ug/Kg	☼	08/08/17 10:37	08/10/17 16:34	1
Methyl tert-butyl ether	320	U	320	33	ug/Kg	☼	08/08/17 10:37	08/10/17 16:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	320	U	320	29	ug/Kg	☼	08/08/17 10:37	08/10/17 16:34	1
1,2,4-Trichlorobenzene	320	U	320	33	ug/Kg	☼	08/08/17 10:37	08/10/17 16:34	1
1,2-Dichlorobenzene	320	U	320	23	ug/Kg	☼	08/08/17 10:37	08/10/17 16:34	1
1,3-Dichlorobenzene	320	U	320	48	ug/Kg	☼	08/08/17 10:37	08/10/17 16:34	1
1,4-Dichlorobenzene	320	U	320	34	ug/Kg	☼	08/08/17 10:37	08/10/17 16:34	1
Trichlorofluoromethane	320	U	320	43	ug/Kg	☼	08/08/17 10:37	08/10/17 16:34	1
Chlorodibromomethane	320	U	320	43	ug/Kg	☼	08/08/17 10:37	08/10/17 16:34	1
Methylcyclohexane	640	U	640	47	ug/Kg	☼	08/08/17 10:37	08/10/17 16:34	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080217-SK-029

Date Collected: 08/02/17 16:00

Date Received: 08/05/17 09:30

Lab Sample ID: 240-83321-8

Matrix: Solid

Percent Solids: 81.7

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	132		64 - 144	08/08/17 10:37	08/10/17 16:34	1
4-Bromofluorobenzene (Surr)	132		58 - 142	08/08/17 10:37	08/10/17 16:34	1
Toluene-d8 (Surr)	110		61 - 137	08/08/17 10:37	08/10/17 16:34	1
Dibromofluoromethane (Surr)	116		31 - 155	08/08/17 10:37	08/10/17 16:34	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080217-SK-029

Lab Sample ID: 240-83321-8

Date Collected: 08/02/17 16:00

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 81.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	60	U	60	29	ug/Kg	☼	08/08/17 08:59	08/10/17 20:09	1
Aroclor-1221	60	U	60	28	ug/Kg	☼	08/08/17 08:59	08/10/17 20:09	1
Aroclor-1232	60	U	60	19	ug/Kg	☼	08/08/17 08:59	08/10/17 20:09	1
Aroclor-1242	60	U	60	24	ug/Kg	☼	08/08/17 08:59	08/10/17 20:09	1
Aroclor-1248	60	U	60	21	ug/Kg	☼	08/08/17 08:59	08/10/17 20:09	1
Aroclor-1254	60	U	60	17	ug/Kg	☼	08/08/17 08:59	08/10/17 20:09	1
Aroclor-1260	60	U	60	22	ug/Kg	☼	08/08/17 08:59	08/10/17 20:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	70		14 - 128	08/08/17 08:59	08/10/17 20:09	1
DCB Decachlorobiphenyl	84		10 - 132	08/08/17 08:59	08/10/17 20:09	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080217-SK-029

Lab Sample ID: 240-83321-8

Date Collected: 08/02/17 16:00

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 81.7

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	81.7		0.1	0.1	%			08/07/17 09:32	1
Percent Moisture	18.3		0.1	0.1	%			08/07/17 09:32	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080217-SK-030

Lab Sample ID: 240-83321-9

Date Collected: 08/02/17 16:05

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 77.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	470	J	1600	160	ug/Kg	☼	08/08/17 10:37	08/10/17 16:55	1
Benzene	400	U	400	39	ug/Kg	☼	08/08/17 10:37	08/10/17 16:55	1
Dichlorobromomethane	400	U	400	29	ug/Kg	☼	08/08/17 10:37	08/10/17 16:55	1
Bromoform	400	U	400	37	ug/Kg	☼	08/08/17 10:37	08/10/17 16:55	1
Bromomethane	400	U	400	45	ug/Kg	☼	08/08/17 10:37	08/10/17 16:55	1
2-Butanone (MEK)	1600	U	1600	81	ug/Kg	☼	08/08/17 10:37	08/10/17 16:55	1
Carbon disulfide	400	U	400	29	ug/Kg	☼	08/08/17 10:37	08/10/17 16:55	1
Carbon tetrachloride	400	U	400	44	ug/Kg	☼	08/08/17 10:37	08/10/17 16:55	1
Chlorobenzene	400	U	400	49	ug/Kg	☼	08/08/17 10:37	08/10/17 16:55	1
Chloroethane	400	U	400	45	ug/Kg	☼	08/08/17 10:37	08/10/17 16:55	1
Chloroform	400	U	400	39	ug/Kg	☼	08/08/17 10:37	08/10/17 16:55	1
Chloromethane	400	U	400	29	ug/Kg	☼	08/08/17 10:37	08/10/17 16:55	1
1,1-Dichloroethane	400	U	400	50	ug/Kg	☼	08/08/17 10:37	08/10/17 16:55	1
1,2-Dichloroethane	400	U	400	49	ug/Kg	☼	08/08/17 10:37	08/10/17 16:55	1
1,1-Dichloroethene	400	U	400	58	ug/Kg	☼	08/08/17 10:37	08/10/17 16:55	1
1,2-Dichloropropane	400	U	400	49	ug/Kg	☼	08/08/17 10:37	08/10/17 16:55	1
cis-1,3-Dichloropropene	400	U	400	37	ug/Kg	☼	08/08/17 10:37	08/10/17 16:55	1
trans-1,3-Dichloropropene	400	U	400	24	ug/Kg	☼	08/08/17 10:37	08/10/17 16:55	1
Ethylbenzene	400	U	400	57	ug/Kg	☼	08/08/17 10:37	08/10/17 16:55	1
2-Hexanone	1600	U	1600	140	ug/Kg	☼	08/08/17 10:37	08/10/17 16:55	1
Methylene Chloride	270	J B *	400	110	ug/Kg	☼	08/08/17 10:37	08/10/17 16:55	1
4-Methyl-2-pentanone (MIBK)	1600	U	1600	65	ug/Kg	☼	08/08/17 10:37	08/10/17 16:55	1
Styrene	400	U	400	16	ug/Kg	☼	08/08/17 10:37	08/10/17 16:55	1
1,1,2,2-Tetrachloroethane	400	U	400	39	ug/Kg	☼	08/08/17 10:37	08/10/17 16:55	1
Tetrachloroethene	400	U	400	34	ug/Kg	☼	08/08/17 10:37	08/10/17 16:55	1
Toluene	400	U	400	39	ug/Kg	☼	08/08/17 10:37	08/10/17 16:55	1
Trichloroethene	400	U	400	60	ug/Kg	☼	08/08/17 10:37	08/10/17 16:55	1
Vinyl chloride	400	U	400	28	ug/Kg	☼	08/08/17 10:37	08/10/17 16:55	1
Xylenes, Total	810	U	810	45	ug/Kg	☼	08/08/17 10:37	08/10/17 16:55	1
1,1,1-Trichloroethane	400	U	400	45	ug/Kg	☼	08/08/17 10:37	08/10/17 16:55	1
1,1,2-Trichloroethane	400	U	400	37	ug/Kg	☼	08/08/17 10:37	08/10/17 16:55	1
Cyclohexane	810	U	810	49	ug/Kg	☼	08/08/17 10:37	08/10/17 16:55	1
1,2-Dibromo-3-Chloropropane	810	U	810	78	ug/Kg	☼	08/08/17 10:37	08/10/17 16:55	1
Ethylene Dibromide	400	U	400	37	ug/Kg	☼	08/08/17 10:37	08/10/17 16:55	1
Dichlorodifluoromethane	400	U	400	36	ug/Kg	☼	08/08/17 10:37	08/10/17 16:55	1
cis-1,2-Dichloroethene	400	U	400	57	ug/Kg	☼	08/08/17 10:37	08/10/17 16:55	1
trans-1,2-Dichloroethene	400	U	400	57	ug/Kg	☼	08/08/17 10:37	08/10/17 16:55	1
Isopropylbenzene	400	U	400	55	ug/Kg	☼	08/08/17 10:37	08/10/17 16:55	1
Methyl acetate	2000	U	2000	120	ug/Kg	☼	08/08/17 10:37	08/10/17 16:55	1
Methyl tert-butyl ether	400	U	400	42	ug/Kg	☼	08/08/17 10:37	08/10/17 16:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	400	U	400	37	ug/Kg	☼	08/08/17 10:37	08/10/17 16:55	1
1,2,4-Trichlorobenzene	400	U	400	42	ug/Kg	☼	08/08/17 10:37	08/10/17 16:55	1
1,2-Dichlorobenzene	400	U	400	29	ug/Kg	☼	08/08/17 10:37	08/10/17 16:55	1
1,3-Dichlorobenzene	400	U	400	62	ug/Kg	☼	08/08/17 10:37	08/10/17 16:55	1
1,4-Dichlorobenzene	400	U	400	44	ug/Kg	☼	08/08/17 10:37	08/10/17 16:55	1
Trichlorofluoromethane	400	U	400	55	ug/Kg	☼	08/08/17 10:37	08/10/17 16:55	1
Chlorodibromomethane	400	U	400	55	ug/Kg	☼	08/08/17 10:37	08/10/17 16:55	1
Methylcyclohexane	810	U	810	60	ug/Kg	☼	08/08/17 10:37	08/10/17 16:55	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080217-SK-030

Date Collected: 08/02/17 16:05

Date Received: 08/05/17 09:30

Lab Sample ID: 240-83321-9

Matrix: Solid

Percent Solids: 77.1

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	157	X	64 - 144	08/08/17 10:37	08/10/17 16:55	1
4-Bromofluorobenzene (Surr)	151	X	58 - 142	08/08/17 10:37	08/10/17 16:55	1
Toluene-d8 (Surr)	127		61 - 137	08/08/17 10:37	08/10/17 16:55	1
Dibromofluoromethane (Surr)	141		31 - 155	08/08/17 10:37	08/10/17 16:55	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080217-SK-030

Lab Sample ID: 240-83321-9

Date Collected: 08/02/17 16:05

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 77.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	64	U	64	31	ug/Kg	☼	08/10/17 08:19	08/12/17 14:31	1
Aroclor-1221	64	U	64	29	ug/Kg	☼	08/10/17 08:19	08/12/17 14:31	1
Aroclor-1232	64	U	64	20	ug/Kg	☼	08/10/17 08:19	08/12/17 14:31	1
Aroclor-1242	64	U	64	25	ug/Kg	☼	08/10/17 08:19	08/12/17 14:31	1
Aroclor-1248	64	U	64	22	ug/Kg	☼	08/10/17 08:19	08/12/17 14:31	1
Aroclor-1254	64	U	64	18	ug/Kg	☼	08/10/17 08:19	08/12/17 14:31	1
Aroclor-1260	64	U	64	23	ug/Kg	☼	08/10/17 08:19	08/12/17 14:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	77		14 - 128	08/10/17 08:19	08/12/17 14:31	1
DCB Decachlorobiphenyl	88		10 - 132	08/10/17 08:19	08/12/17 14:31	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080217-SK-030

Lab Sample ID: 240-83321-9

Date Collected: 08/02/17 16:05

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 77.1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	77.1		0.1	0.1	%			08/07/17 09:32	1
Percent Moisture	22.9		0.1	0.1	%			08/07/17 09:32	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080317-SK-031

Lab Sample ID: 240-83321-10

Date Collected: 08/03/17 09:55

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 78.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1300	U	1300	130	ug/Kg	☼	08/08/17 10:37	08/10/17 17:17	1
Benzene	340	U	340	32	ug/Kg	☼	08/08/17 10:37	08/10/17 17:17	1
Dichlorobromomethane	340	U	340	24	ug/Kg	☼	08/08/17 10:37	08/10/17 17:17	1
Bromoform	340	U	340	31	ug/Kg	☼	08/08/17 10:37	08/10/17 17:17	1
Bromomethane	340	U	340	38	ug/Kg	☼	08/08/17 10:37	08/10/17 17:17	1
2-Butanone (MEK)	69	J	1300	67	ug/Kg	☼	08/08/17 10:37	08/10/17 17:17	1
Carbon disulfide	340	U	340	24	ug/Kg	☼	08/08/17 10:37	08/10/17 17:17	1
Carbon tetrachloride	340	U	340	36	ug/Kg	☼	08/08/17 10:37	08/10/17 17:17	1
Chlorobenzene	340	U	340	40	ug/Kg	☼	08/08/17 10:37	08/10/17 17:17	1
Chloroethane	340	U	340	38	ug/Kg	☼	08/08/17 10:37	08/10/17 17:17	1
Chloroform	340	U	340	32	ug/Kg	☼	08/08/17 10:37	08/10/17 17:17	1
Chloromethane	340	U	340	24	ug/Kg	☼	08/08/17 10:37	08/10/17 17:17	1
1,1-Dichloroethane	340	U	340	42	ug/Kg	☼	08/08/17 10:37	08/10/17 17:17	1
1,2-Dichloroethane	340	U	340	40	ug/Kg	☼	08/08/17 10:37	08/10/17 17:17	1
1,1-Dichloroethene	340	U	340	49	ug/Kg	☼	08/08/17 10:37	08/10/17 17:17	1
1,2-Dichloropropane	340	U	340	40	ug/Kg	☼	08/08/17 10:37	08/10/17 17:17	1
cis-1,3-Dichloropropene	340	U	340	31	ug/Kg	☼	08/08/17 10:37	08/10/17 17:17	1
trans-1,3-Dichloropropene	340	U	340	20	ug/Kg	☼	08/08/17 10:37	08/10/17 17:17	1
Ethylbenzene	340	U	340	47	ug/Kg	☼	08/08/17 10:37	08/10/17 17:17	1
2-Hexanone	1300	U	1300	120	ug/Kg	☼	08/08/17 10:37	08/10/17 17:17	1
Methylene Chloride	230	J B *	340	88	ug/Kg	☼	08/08/17 10:37	08/10/17 17:17	1
4-Methyl-2-pentanone (MIBK)	1300	U	1300	54	ug/Kg	☼	08/08/17 10:37	08/10/17 17:17	1
Styrene	340	U	340	13	ug/Kg	☼	08/08/17 10:37	08/10/17 17:17	1
1,1,2,2-Tetrachloroethane	340	U	340	32	ug/Kg	☼	08/08/17 10:37	08/10/17 17:17	1
Tetrachloroethene	340	U	340	28	ug/Kg	☼	08/08/17 10:37	08/10/17 17:17	1
Toluene	340	U	340	32	ug/Kg	☼	08/08/17 10:37	08/10/17 17:17	1
Trichloroethene	340	U	340	50	ug/Kg	☼	08/08/17 10:37	08/10/17 17:17	1
Vinyl chloride	340	U	340	23	ug/Kg	☼	08/08/17 10:37	08/10/17 17:17	1
Xylenes, Total	140	J	670	38	ug/Kg	☼	08/08/17 10:37	08/10/17 17:17	1
1,1,1-Trichloroethane	340	U	340	38	ug/Kg	☼	08/08/17 10:37	08/10/17 17:17	1
1,1,2-Trichloroethane	340	U	340	31	ug/Kg	☼	08/08/17 10:37	08/10/17 17:17	1
Cyclohexane	670	U	670	40	ug/Kg	☼	08/08/17 10:37	08/10/17 17:17	1
1,2-Dibromo-3-Chloropropane	670	U	670	65	ug/Kg	☼	08/08/17 10:37	08/10/17 17:17	1
Ethylene Dibromide	340	U	340	31	ug/Kg	☼	08/08/17 10:37	08/10/17 17:17	1
Dichlorodifluoromethane	340	U	340	30	ug/Kg	☼	08/08/17 10:37	08/10/17 17:17	1
cis-1,2-Dichloroethene	340	U	340	47	ug/Kg	☼	08/08/17 10:37	08/10/17 17:17	1
trans-1,2-Dichloroethene	340	U	340	47	ug/Kg	☼	08/08/17 10:37	08/10/17 17:17	1
Isopropylbenzene	340	U	340	46	ug/Kg	☼	08/08/17 10:37	08/10/17 17:17	1
Methyl acetate	190	J	1700	100	ug/Kg	☼	08/08/17 10:37	08/10/17 17:17	1
Methyl tert-butyl ether	340	U	340	35	ug/Kg	☼	08/08/17 10:37	08/10/17 17:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	340	U	340	31	ug/Kg	☼	08/08/17 10:37	08/10/17 17:17	1
1,2,4-Trichlorobenzene	340	U	340	35	ug/Kg	☼	08/08/17 10:37	08/10/17 17:17	1
1,2-Dichlorobenzene	51	J	340	24	ug/Kg	☼	08/08/17 10:37	08/10/17 17:17	1
1,3-Dichlorobenzene	340	U	340	51	ug/Kg	☼	08/08/17 10:37	08/10/17 17:17	1
1,4-Dichlorobenzene	340	U	340	36	ug/Kg	☼	08/08/17 10:37	08/10/17 17:17	1
Trichlorofluoromethane	340	U	340	46	ug/Kg	☼	08/08/17 10:37	08/10/17 17:17	1
Chlorodibromomethane	340	U	340	46	ug/Kg	☼	08/08/17 10:37	08/10/17 17:17	1
Methylcyclohexane	670	U	670	50	ug/Kg	☼	08/08/17 10:37	08/10/17 17:17	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080317-SK-031

Lab Sample ID: 240-83321-10

Date Collected: 08/03/17 09:55

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 78.5

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	140		64 - 144	08/08/17 10:37	08/10/17 17:17	1
4-Bromofluorobenzene (Surr)	140		58 - 142	08/08/17 10:37	08/10/17 17:17	1
Toluene-d8 (Surr)	113		61 - 137	08/08/17 10:37	08/10/17 17:17	1
Dibromofluoromethane (Surr)	127		31 - 155	08/08/17 10:37	08/10/17 17:17	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080317-SK-031

Lab Sample ID: 240-83321-10

Date Collected: 08/03/17 09:55

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 78.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	1300	U	1300	600	ug/Kg	☼	08/08/17 08:59	08/10/17 20:28	20
Aroclor-1221	1300	U	1300	580	ug/Kg	☼	08/08/17 08:59	08/10/17 20:28	20
Aroclor-1232	1300	U	1300	400	ug/Kg	☼	08/08/17 08:59	08/10/17 20:28	20
Aroclor-1242	1300	U	1300	500	ug/Kg	☼	08/08/17 08:59	08/10/17 20:28	20
Aroclor-1248	16000		1300	430	ug/Kg	☼	08/08/17 08:59	08/10/17 20:28	20
Aroclor-1254	1300	U	1300	350	ug/Kg	☼	08/08/17 08:59	08/10/17 20:28	20
Aroclor-1260	1300	U	1300	450	ug/Kg	☼	08/08/17 08:59	08/10/17 20:28	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	113		14 - 128	08/08/17 08:59	08/10/17 20:28	20
DCB Decachlorobiphenyl	120		10 - 132	08/08/17 08:59	08/10/17 20:28	20

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080317-SK-031

Lab Sample ID: 240-83321-10

Date Collected: 08/03/17 09:55

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 78.5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	78.5		0.1	0.1	%			08/07/17 09:32	1
Percent Moisture	21.5		0.1	0.1	%			08/07/17 09:32	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080317-SK-032

Lab Sample ID: 240-83321-11

Date Collected: 08/03/17 10:35

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	180	J	1200	120	ug/Kg	☼	08/08/17 10:37	08/10/17 17:38	1
Benzene	300	U	300	29	ug/Kg	☼	08/08/17 10:37	08/10/17 17:38	1
Dichlorobromomethane	300	U	300	22	ug/Kg	☼	08/08/17 10:37	08/10/17 17:38	1
Bromoform	300	U	300	28	ug/Kg	☼	08/08/17 10:37	08/10/17 17:38	1
Bromomethane	300	U	300	34	ug/Kg	☼	08/08/17 10:37	08/10/17 17:38	1
2-Butanone (MEK)	90	J	1200	61	ug/Kg	☼	08/08/17 10:37	08/10/17 17:38	1
Carbon disulfide	300	U	300	22	ug/Kg	☼	08/08/17 10:37	08/10/17 17:38	1
Carbon tetrachloride	300	U	300	33	ug/Kg	☼	08/08/17 10:37	08/10/17 17:38	1
Chlorobenzene	300	U	300	37	ug/Kg	☼	08/08/17 10:37	08/10/17 17:38	1
Chloroethane	300	U	300	34	ug/Kg	☼	08/08/17 10:37	08/10/17 17:38	1
Chloroform	300	U	300	29	ug/Kg	☼	08/08/17 10:37	08/10/17 17:38	1
Chloromethane	300	U	300	22	ug/Kg	☼	08/08/17 10:37	08/10/17 17:38	1
1,1-Dichloroethane	300	U	300	38	ug/Kg	☼	08/08/17 10:37	08/10/17 17:38	1
1,2-Dichloroethane	300	U	300	37	ug/Kg	☼	08/08/17 10:37	08/10/17 17:38	1
1,1-Dichloroethene	300	U	300	44	ug/Kg	☼	08/08/17 10:37	08/10/17 17:38	1
1,2-Dichloropropane	300	U	300	37	ug/Kg	☼	08/08/17 10:37	08/10/17 17:38	1
cis-1,3-Dichloropropene	300	U	300	28	ug/Kg	☼	08/08/17 10:37	08/10/17 17:38	1
trans-1,3-Dichloropropene	300	U	300	18	ug/Kg	☼	08/08/17 10:37	08/10/17 17:38	1
Ethylbenzene	300	U	300	43	ug/Kg	☼	08/08/17 10:37	08/10/17 17:38	1
2-Hexanone	1200	U	1200	100	ug/Kg	☼	08/08/17 10:37	08/10/17 17:38	1
Methylene Chloride	180	J B *	300	79	ug/Kg	☼	08/08/17 10:37	08/10/17 17:38	1
4-Methyl-2-pentanone (MIBK)	1200	U	1200	49	ug/Kg	☼	08/08/17 10:37	08/10/17 17:38	1
Styrene	300	U	300	12	ug/Kg	☼	08/08/17 10:37	08/10/17 17:38	1
1,1,2,2-Tetrachloroethane	300	U	300	29	ug/Kg	☼	08/08/17 10:37	08/10/17 17:38	1
Tetrachloroethene	300	U	300	26	ug/Kg	☼	08/08/17 10:37	08/10/17 17:38	1
Toluene	300	U	300	29	ug/Kg	☼	08/08/17 10:37	08/10/17 17:38	1
Trichloroethene	300	U	300	45	ug/Kg	☼	08/08/17 10:37	08/10/17 17:38	1
Vinyl chloride	300	U	300	21	ug/Kg	☼	08/08/17 10:37	08/10/17 17:38	1
Xylenes, Total	610	U	610	34	ug/Kg	☼	08/08/17 10:37	08/10/17 17:38	1
1,1,1-Trichloroethane	300	U	300	34	ug/Kg	☼	08/08/17 10:37	08/10/17 17:38	1
1,1,2-Trichloroethane	300	U	300	28	ug/Kg	☼	08/08/17 10:37	08/10/17 17:38	1
Cyclohexane	610	U	610	37	ug/Kg	☼	08/08/17 10:37	08/10/17 17:38	1
1,2-Dibromo-3-Chloropropane	610	U	610	59	ug/Kg	☼	08/08/17 10:37	08/10/17 17:38	1
Ethylene Dibromide	300	U	300	28	ug/Kg	☼	08/08/17 10:37	08/10/17 17:38	1
Dichlorodifluoromethane	300	U	300	27	ug/Kg	☼	08/08/17 10:37	08/10/17 17:38	1
cis-1,2-Dichloroethene	300	U	300	43	ug/Kg	☼	08/08/17 10:37	08/10/17 17:38	1
trans-1,2-Dichloroethene	300	U	300	43	ug/Kg	☼	08/08/17 10:37	08/10/17 17:38	1
Isopropylbenzene	300	U	300	41	ug/Kg	☼	08/08/17 10:37	08/10/17 17:38	1
Methyl acetate	240	J	1500	91	ug/Kg	☼	08/08/17 10:37	08/10/17 17:38	1
Methyl tert-butyl ether	300	U	300	32	ug/Kg	☼	08/08/17 10:37	08/10/17 17:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	300	U	300	28	ug/Kg	☼	08/08/17 10:37	08/10/17 17:38	1
1,2,4-Trichlorobenzene	300	U	300	32	ug/Kg	☼	08/08/17 10:37	08/10/17 17:38	1
1,2-Dichlorobenzene	300	U	300	22	ug/Kg	☼	08/08/17 10:37	08/10/17 17:38	1
1,3-Dichlorobenzene	300	U	300	46	ug/Kg	☼	08/08/17 10:37	08/10/17 17:38	1
1,4-Dichlorobenzene	300	U	300	33	ug/Kg	☼	08/08/17 10:37	08/10/17 17:38	1
Trichlorofluoromethane	300	U	300	41	ug/Kg	☼	08/08/17 10:37	08/10/17 17:38	1
Chlorodibromomethane	300	U	300	41	ug/Kg	☼	08/08/17 10:37	08/10/17 17:38	1
Methylcyclohexane	610	U	610	45	ug/Kg	☼	08/08/17 10:37	08/10/17 17:38	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080317-SK-032

Lab Sample ID: 240-83321-11

Date Collected: 08/03/17 10:35

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 85.2

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	132		64 - 144	08/08/17 10:37	08/10/17 17:38	1
4-Bromofluorobenzene (Surr)	132		58 - 142	08/08/17 10:37	08/10/17 17:38	1
Toluene-d8 (Surr)	109		61 - 137	08/08/17 10:37	08/10/17 17:38	1
Dibromofluoromethane (Surr)	115		31 - 155	08/08/17 10:37	08/10/17 17:38	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080317-SK-032

Lab Sample ID: 240-83321-11

Date Collected: 08/03/17 10:35

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	59	U	59	28	ug/Kg	☼	08/08/17 08:59	08/10/17 20:47	1
Aroclor-1221	59	U	59	27	ug/Kg	☼	08/08/17 08:59	08/10/17 20:47	1
Aroclor-1232	59	U	59	19	ug/Kg	☼	08/08/17 08:59	08/10/17 20:47	1
Aroclor-1242	59	U	59	24	ug/Kg	☼	08/08/17 08:59	08/10/17 20:47	1
Aroclor-1248	1600		59	20	ug/Kg	☼	08/08/17 08:59	08/10/17 20:47	1
Aroclor-1254	59	U	59	16	ug/Kg	☼	08/08/17 08:59	08/10/17 20:47	1
Aroclor-1260	59	U	59	21	ug/Kg	☼	08/08/17 08:59	08/10/17 20:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	110		14 - 128	08/08/17 08:59	08/10/17 20:47	1
DCB Decachlorobiphenyl	116		10 - 132	08/08/17 08:59	08/10/17 20:47	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080317-SK-032

Lab Sample ID: 240-83321-11

Date Collected: 08/03/17 10:35

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 85.2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	85.2		0.1	0.1	%			08/07/17 09:32	1
Percent Moisture	14.8		0.1	0.1	%			08/07/17 09:32	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080317-SK-033

Lab Sample ID: 240-83321-12

Date Collected: 08/03/17 10:45

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 76.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	170	J	1600	150	ug/Kg	☼	08/08/17 10:37	08/10/17 18:00	1
Benzene	400	U	400	38	ug/Kg	☼	08/08/17 10:37	08/10/17 18:00	1
Dichlorobromomethane	400	U	400	29	ug/Kg	☼	08/08/17 10:37	08/10/17 18:00	1
Bromoform	400	U	400	37	ug/Kg	☼	08/08/17 10:37	08/10/17 18:00	1
Bromomethane	400	U	400	45	ug/Kg	☼	08/08/17 10:37	08/10/17 18:00	1
2-Butanone (MEK)	1600	U	1600	80	ug/Kg	☼	08/08/17 10:37	08/10/17 18:00	1
Carbon disulfide	400	U	400	29	ug/Kg	☼	08/08/17 10:37	08/10/17 18:00	1
Carbon tetrachloride	400	U	400	43	ug/Kg	☼	08/08/17 10:37	08/10/17 18:00	1
Chlorobenzene	400	U	400	48	ug/Kg	☼	08/08/17 10:37	08/10/17 18:00	1
Chloroethane	400	U	400	45	ug/Kg	☼	08/08/17 10:37	08/10/17 18:00	1
Chloroform	400	U	400	38	ug/Kg	☼	08/08/17 10:37	08/10/17 18:00	1
Chloromethane	400	U	400	29	ug/Kg	☼	08/08/17 10:37	08/10/17 18:00	1
1,1-Dichloroethane	400	U	400	49	ug/Kg	☼	08/08/17 10:37	08/10/17 18:00	1
1,2-Dichloroethane	400	U	400	48	ug/Kg	☼	08/08/17 10:37	08/10/17 18:00	1
1,1-Dichloroethene	400	U	400	57	ug/Kg	☼	08/08/17 10:37	08/10/17 18:00	1
1,2-Dichloropropane	400	U	400	48	ug/Kg	☼	08/08/17 10:37	08/10/17 18:00	1
cis-1,3-Dichloropropene	400	U	400	37	ug/Kg	☼	08/08/17 10:37	08/10/17 18:00	1
trans-1,3-Dichloropropene	400	U	400	24	ug/Kg	☼	08/08/17 10:37	08/10/17 18:00	1
Ethylbenzene	400	U	400	56	ug/Kg	☼	08/08/17 10:37	08/10/17 18:00	1
2-Hexanone	1600	U	1600	140	ug/Kg	☼	08/08/17 10:37	08/10/17 18:00	1
Methylene Chloride	260	J B *	400	100	ug/Kg	☼	08/08/17 10:37	08/10/17 18:00	1
4-Methyl-2-pentanone (MIBK)	1600	U	1600	64	ug/Kg	☼	08/08/17 10:37	08/10/17 18:00	1
Styrene	400	U	400	16	ug/Kg	☼	08/08/17 10:37	08/10/17 18:00	1
1,1,2,2-Tetrachloroethane	400	U	400	38	ug/Kg	☼	08/08/17 10:37	08/10/17 18:00	1
Tetrachloroethene	400	U	400	33	ug/Kg	☼	08/08/17 10:37	08/10/17 18:00	1
Toluene	400	U	400	38	ug/Kg	☼	08/08/17 10:37	08/10/17 18:00	1
Trichloroethene	400	U	400	59	ug/Kg	☼	08/08/17 10:37	08/10/17 18:00	1
Vinyl chloride	400	U	400	27	ug/Kg	☼	08/08/17 10:37	08/10/17 18:00	1
Xylenes, Total	800	U	800	45	ug/Kg	☼	08/08/17 10:37	08/10/17 18:00	1
1,1,1-Trichloroethane	400	U	400	45	ug/Kg	☼	08/08/17 10:37	08/10/17 18:00	1
1,1,2-Trichloroethane	400	U	400	37	ug/Kg	☼	08/08/17 10:37	08/10/17 18:00	1
Cyclohexane	800	U	800	48	ug/Kg	☼	08/08/17 10:37	08/10/17 18:00	1
1,2-Dibromo-3-Chloropropane	800	U	800	77	ug/Kg	☼	08/08/17 10:37	08/10/17 18:00	1
Ethylene Dibromide	400	U	400	37	ug/Kg	☼	08/08/17 10:37	08/10/17 18:00	1
Dichlorodifluoromethane	400	U	400	35	ug/Kg	☼	08/08/17 10:37	08/10/17 18:00	1
cis-1,2-Dichloroethene	400	U	400	56	ug/Kg	☼	08/08/17 10:37	08/10/17 18:00	1
trans-1,2-Dichloroethene	400	U	400	56	ug/Kg	☼	08/08/17 10:37	08/10/17 18:00	1
Isopropylbenzene	400	U	400	54	ug/Kg	☼	08/08/17 10:37	08/10/17 18:00	1
Methyl acetate	2000	U	2000	120	ug/Kg	☼	08/08/17 10:37	08/10/17 18:00	1
Methyl tert-butyl ether	400	U	400	41	ug/Kg	☼	08/08/17 10:37	08/10/17 18:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	400	U	400	37	ug/Kg	☼	08/08/17 10:37	08/10/17 18:00	1
1,2,4-Trichlorobenzene	400	U	400	41	ug/Kg	☼	08/08/17 10:37	08/10/17 18:00	1
1,2-Dichlorobenzene	400	U	400	29	ug/Kg	☼	08/08/17 10:37	08/10/17 18:00	1
1,3-Dichlorobenzene	400	U	400	61	ug/Kg	☼	08/08/17 10:37	08/10/17 18:00	1
1,4-Dichlorobenzene	400	U	400	43	ug/Kg	☼	08/08/17 10:37	08/10/17 18:00	1
Trichlorofluoromethane	400	U	400	54	ug/Kg	☼	08/08/17 10:37	08/10/17 18:00	1
Chlorodibromomethane	400	U	400	54	ug/Kg	☼	08/08/17 10:37	08/10/17 18:00	1
Methylcyclohexane	800	U	800	59	ug/Kg	☼	08/08/17 10:37	08/10/17 18:00	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080317-SK-033

Lab Sample ID: 240-83321-12

Date Collected: 08/03/17 10:45

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 76.7

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	134		64 - 144	08/08/17 10:37	08/10/17 18:00	1
4-Bromofluorobenzene (Surr)	125		58 - 142	08/08/17 10:37	08/10/17 18:00	1
Toluene-d8 (Surr)	108		61 - 137	08/08/17 10:37	08/10/17 18:00	1
Dibromofluoromethane (Surr)	120		31 - 155	08/08/17 10:37	08/10/17 18:00	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080317-SK-033

Lab Sample ID: 240-83321-12

Date Collected: 08/03/17 10:45

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 76.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	1300	U	1300	620	ug/Kg	☼	08/08/17 08:59	08/10/17 21:07	20
Aroclor-1221	1300	U	1300	600	ug/Kg	☼	08/08/17 08:59	08/10/17 21:07	20
Aroclor-1232	1300	U	1300	420	ug/Kg	☼	08/08/17 08:59	08/10/17 21:07	20
Aroclor-1242	1300	U	1300	520	ug/Kg	☼	08/08/17 08:59	08/10/17 21:07	20
Aroclor-1248	14000		1300	440	ug/Kg	☼	08/08/17 08:59	08/10/17 21:07	20
Aroclor-1254	1300	U	1300	360	ug/Kg	☼	08/08/17 08:59	08/10/17 21:07	20
Aroclor-1260	1300	U	1300	470	ug/Kg	☼	08/08/17 08:59	08/10/17 21:07	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	119		14 - 128	08/08/17 08:59	08/10/17 21:07	20
DCB Decachlorobiphenyl	137	X	10 - 132	08/08/17 08:59	08/10/17 21:07	20

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080317-SK-033

Lab Sample ID: 240-83321-12

Date Collected: 08/03/17 10:45

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 76.7

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	76.7		0.1	0.1	%			08/07/17 09:32	1
Percent Moisture	23.3		0.1	0.1	%			08/07/17 09:32	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080317-SK-034

Lab Sample ID: 240-83321-13

Date Collected: 08/03/17 12:00

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1300	U	1300	120	ug/Kg	☼	08/08/17 10:37	08/10/17 18:21	1
Benzene	320	U	320	30	ug/Kg	☼	08/08/17 10:37	08/10/17 18:21	1
Dichlorobromomethane	320	U	320	23	ug/Kg	☼	08/08/17 10:37	08/10/17 18:21	1
Bromoform	320	U	320	29	ug/Kg	☼	08/08/17 10:37	08/10/17 18:21	1
Bromomethane	320	U	320	35	ug/Kg	☼	08/08/17 10:37	08/10/17 18:21	1
2-Butanone (MEK)	1300	U	1300	63	ug/Kg	☼	08/08/17 10:37	08/10/17 18:21	1
Carbon disulfide	320	U	320	23	ug/Kg	☼	08/08/17 10:37	08/10/17 18:21	1
Carbon tetrachloride	320	U	320	34	ug/Kg	☼	08/08/17 10:37	08/10/17 18:21	1
Chlorobenzene	320	U	320	38	ug/Kg	☼	08/08/17 10:37	08/10/17 18:21	1
Chloroethane	320	U	320	35	ug/Kg	☼	08/08/17 10:37	08/10/17 18:21	1
Chloroform	320	U	320	30	ug/Kg	☼	08/08/17 10:37	08/10/17 18:21	1
Chloromethane	320	U	320	23	ug/Kg	☼	08/08/17 10:37	08/10/17 18:21	1
1,1-Dichloroethane	320	U	320	39	ug/Kg	☼	08/08/17 10:37	08/10/17 18:21	1
1,2-Dichloroethane	320	U	320	38	ug/Kg	☼	08/08/17 10:37	08/10/17 18:21	1
1,1-Dichloroethene	320	U	320	45	ug/Kg	☼	08/08/17 10:37	08/10/17 18:21	1
1,2-Dichloropropane	320	U	320	38	ug/Kg	☼	08/08/17 10:37	08/10/17 18:21	1
cis-1,3-Dichloropropene	320	U	320	29	ug/Kg	☼	08/08/17 10:37	08/10/17 18:21	1
trans-1,3-Dichloropropene	320	U	320	19	ug/Kg	☼	08/08/17 10:37	08/10/17 18:21	1
Ethylbenzene	320	U	320	44	ug/Kg	☼	08/08/17 10:37	08/10/17 18:21	1
2-Hexanone	1300	U	1300	110	ug/Kg	☼	08/08/17 10:37	08/10/17 18:21	1
Methylene Chloride	210	J B *	320	82	ug/Kg	☼	08/08/17 10:37	08/10/17 18:21	1
4-Methyl-2-pentanone (MIBK)	1300	U	1300	51	ug/Kg	☼	08/08/17 10:37	08/10/17 18:21	1
Styrene	320	U	320	13	ug/Kg	☼	08/08/17 10:37	08/10/17 18:21	1
1,1,2,2-Tetrachloroethane	320	U	320	30	ug/Kg	☼	08/08/17 10:37	08/10/17 18:21	1
Tetrachloroethene	320	U	320	27	ug/Kg	☼	08/08/17 10:37	08/10/17 18:21	1
Toluene	320	U	320	30	ug/Kg	☼	08/08/17 10:37	08/10/17 18:21	1
Trichloroethene	320	U	320	47	ug/Kg	☼	08/08/17 10:37	08/10/17 18:21	1
Vinyl chloride	320	U	320	21	ug/Kg	☼	08/08/17 10:37	08/10/17 18:21	1
Xylenes, Total	630	U	630	35	ug/Kg	☼	08/08/17 10:37	08/10/17 18:21	1
1,1,1-Trichloroethane	320	U	320	35	ug/Kg	☼	08/08/17 10:37	08/10/17 18:21	1
1,1,2-Trichloroethane	320	U	320	29	ug/Kg	☼	08/08/17 10:37	08/10/17 18:21	1
Cyclohexane	630	U	630	38	ug/Kg	☼	08/08/17 10:37	08/10/17 18:21	1
1,2-Dibromo-3-Chloropropane	630	U	630	61	ug/Kg	☼	08/08/17 10:37	08/10/17 18:21	1
Ethylene Dibromide	320	U	320	29	ug/Kg	☼	08/08/17 10:37	08/10/17 18:21	1
Dichlorodifluoromethane	320	U	320	28	ug/Kg	☼	08/08/17 10:37	08/10/17 18:21	1
cis-1,2-Dichloroethene	320	U	320	44	ug/Kg	☼	08/08/17 10:37	08/10/17 18:21	1
trans-1,2-Dichloroethene	320	U	320	44	ug/Kg	☼	08/08/17 10:37	08/10/17 18:21	1
Isopropylbenzene	320	U	320	43	ug/Kg	☼	08/08/17 10:37	08/10/17 18:21	1
Methyl acetate	1600	U	1600	95	ug/Kg	☼	08/08/17 10:37	08/10/17 18:21	1
Methyl tert-butyl ether	320	U	320	33	ug/Kg	☼	08/08/17 10:37	08/10/17 18:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	320	U	320	29	ug/Kg	☼	08/08/17 10:37	08/10/17 18:21	1
1,2,4-Trichlorobenzene	320	U	320	33	ug/Kg	☼	08/08/17 10:37	08/10/17 18:21	1
1,2-Dichlorobenzene	320	U	320	23	ug/Kg	☼	08/08/17 10:37	08/10/17 18:21	1
1,3-Dichlorobenzene	320	U	320	48	ug/Kg	☼	08/08/17 10:37	08/10/17 18:21	1
1,4-Dichlorobenzene	320	U	320	34	ug/Kg	☼	08/08/17 10:37	08/10/17 18:21	1
Trichlorofluoromethane	320	U	320	43	ug/Kg	☼	08/08/17 10:37	08/10/17 18:21	1
Chlorodibromomethane	320	U	320	43	ug/Kg	☼	08/08/17 10:37	08/10/17 18:21	1
Methylcyclohexane	630	U	630	47	ug/Kg	☼	08/08/17 10:37	08/10/17 18:21	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080317-SK-034

Lab Sample ID: 240-83321-13

Date Collected: 08/03/17 12:00

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 85.6

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	134		64 - 144	08/08/17 10:37	08/10/17 18:21	1
4-Bromofluorobenzene (Surr)	140		58 - 142	08/08/17 10:37	08/10/17 18:21	1
Toluene-d8 (Surr)	112		61 - 137	08/08/17 10:37	08/10/17 18:21	1
Dibromofluoromethane (Surr)	119		31 - 155	08/08/17 10:37	08/10/17 18:21	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080317-SK-034

Lab Sample ID: 240-83321-13

Date Collected: 08/03/17 12:00

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	57	U	57	28	ug/Kg	☼	08/08/17 08:59	08/10/17 21:27	1
Aroclor-1221	57	U	57	26	ug/Kg	☼	08/08/17 08:59	08/10/17 21:27	1
Aroclor-1232	57	U	57	18	ug/Kg	☼	08/08/17 08:59	08/10/17 21:27	1
Aroclor-1242	57	U	57	23	ug/Kg	☼	08/08/17 08:59	08/10/17 21:27	1
Aroclor-1248	57	U	57	20	ug/Kg	☼	08/08/17 08:59	08/10/17 21:27	1
Aroclor-1254	57	U	57	16	ug/Kg	☼	08/08/17 08:59	08/10/17 21:27	1
Aroclor-1260	57	U	57	21	ug/Kg	☼	08/08/17 08:59	08/10/17 21:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	78		14 - 128	08/08/17 08:59	08/10/17 21:27	1
DCB Decachlorobiphenyl	97		10 - 132	08/08/17 08:59	08/10/17 21:27	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080317-SK-034

Lab Sample ID: 240-83321-13

Date Collected: 08/03/17 12:00

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 85.6

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	85.6		0.1	0.1	%			08/07/17 09:32	1
Percent Moisture	14.4		0.1	0.1	%			08/07/17 09:32	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080317-SK-035

Lab Sample ID: 240-83321-14

Date Collected: 08/03/17 12:05

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 76.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1100	J	1500	150	ug/Kg	☼	08/08/17 10:37	08/10/17 18:42	1
Benzene	390	U	390	37	ug/Kg	☼	08/08/17 10:37	08/10/17 18:42	1
Dichlorobromomethane	390	U	390	28	ug/Kg	☼	08/08/17 10:37	08/10/17 18:42	1
Bromoform	390	U	390	35	ug/Kg	☼	08/08/17 10:37	08/10/17 18:42	1
Bromomethane	390	U	390	43	ug/Kg	☼	08/08/17 10:37	08/10/17 18:42	1
2-Butanone (MEK)	1500	U	1500	77	ug/Kg	☼	08/08/17 10:37	08/10/17 18:42	1
Carbon disulfide	390	U	390	28	ug/Kg	☼	08/08/17 10:37	08/10/17 18:42	1
Carbon tetrachloride	390	U	390	42	ug/Kg	☼	08/08/17 10:37	08/10/17 18:42	1
Chlorobenzene	390	U	390	46	ug/Kg	☼	08/08/17 10:37	08/10/17 18:42	1
Chloroethane	390	U	390	43	ug/Kg	☼	08/08/17 10:37	08/10/17 18:42	1
Chloroform	390	U	390	37	ug/Kg	☼	08/08/17 10:37	08/10/17 18:42	1
Chloromethane	390	U	390	28	ug/Kg	☼	08/08/17 10:37	08/10/17 18:42	1
1,1-Dichloroethane	390	U	390	48	ug/Kg	☼	08/08/17 10:37	08/10/17 18:42	1
1,2-Dichloroethane	390	U	390	46	ug/Kg	☼	08/08/17 10:37	08/10/17 18:42	1
1,1-Dichloroethene	390	U	390	55	ug/Kg	☼	08/08/17 10:37	08/10/17 18:42	1
1,2-Dichloropropane	390	U	390	46	ug/Kg	☼	08/08/17 10:37	08/10/17 18:42	1
cis-1,3-Dichloropropene	390	U	390	35	ug/Kg	☼	08/08/17 10:37	08/10/17 18:42	1
trans-1,3-Dichloropropene	390	U	390	23	ug/Kg	☼	08/08/17 10:37	08/10/17 18:42	1
Ethylbenzene	390	U	390	54	ug/Kg	☼	08/08/17 10:37	08/10/17 18:42	1
2-Hexanone	1500	U	1500	130	ug/Kg	☼	08/08/17 10:37	08/10/17 18:42	1
Methylene Chloride	260	J B *	390	100	ug/Kg	☼	08/08/17 10:37	08/10/17 18:42	1
4-Methyl-2-pentanone (MIBK)	1500	U	1500	62	ug/Kg	☼	08/08/17 10:37	08/10/17 18:42	1
Styrene	390	U	390	15	ug/Kg	☼	08/08/17 10:37	08/10/17 18:42	1
1,1,2,2-Tetrachloroethane	390	U	390	37	ug/Kg	☼	08/08/17 10:37	08/10/17 18:42	1
Tetrachloroethene	390	U	390	32	ug/Kg	☼	08/08/17 10:37	08/10/17 18:42	1
Toluene	390	U	390	37	ug/Kg	☼	08/08/17 10:37	08/10/17 18:42	1
Trichloroethene	390	U	390	57	ug/Kg	☼	08/08/17 10:37	08/10/17 18:42	1
Vinyl chloride	390	U	390	26	ug/Kg	☼	08/08/17 10:37	08/10/17 18:42	1
Xylenes, Total	770	U	770	43	ug/Kg	☼	08/08/17 10:37	08/10/17 18:42	1
1,1,1-Trichloroethane	390	U	390	43	ug/Kg	☼	08/08/17 10:37	08/10/17 18:42	1
1,1,2-Trichloroethane	390	U	390	35	ug/Kg	☼	08/08/17 10:37	08/10/17 18:42	1
Cyclohexane	770	U	770	46	ug/Kg	☼	08/08/17 10:37	08/10/17 18:42	1
1,2-Dibromo-3-Chloropropane	770	U	770	74	ug/Kg	☼	08/08/17 10:37	08/10/17 18:42	1
Ethylene Dibromide	390	U	390	35	ug/Kg	☼	08/08/17 10:37	08/10/17 18:42	1
Dichlorodifluoromethane	390	U	390	34	ug/Kg	☼	08/08/17 10:37	08/10/17 18:42	1
cis-1,2-Dichloroethene	390	U	390	54	ug/Kg	☼	08/08/17 10:37	08/10/17 18:42	1
trans-1,2-Dichloroethene	390	U	390	54	ug/Kg	☼	08/08/17 10:37	08/10/17 18:42	1
Isopropylbenzene	390	U	390	52	ug/Kg	☼	08/08/17 10:37	08/10/17 18:42	1
Methyl acetate	1900	U	1900	120	ug/Kg	☼	08/08/17 10:37	08/10/17 18:42	1
Methyl tert-butyl ether	390	U	390	40	ug/Kg	☼	08/08/17 10:37	08/10/17 18:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	390	U	390	35	ug/Kg	☼	08/08/17 10:37	08/10/17 18:42	1
1,2,4-Trichlorobenzene	390	U	390	40	ug/Kg	☼	08/08/17 10:37	08/10/17 18:42	1
1,2-Dichlorobenzene	390	U	390	28	ug/Kg	☼	08/08/17 10:37	08/10/17 18:42	1
1,3-Dichlorobenzene	390	U	390	59	ug/Kg	☼	08/08/17 10:37	08/10/17 18:42	1
1,4-Dichlorobenzene	390	U	390	42	ug/Kg	☼	08/08/17 10:37	08/10/17 18:42	1
Trichlorofluoromethane	390	U	390	52	ug/Kg	☼	08/08/17 10:37	08/10/17 18:42	1
Chlorodibromomethane	390	U	390	52	ug/Kg	☼	08/08/17 10:37	08/10/17 18:42	1
Methylcyclohexane	770	U	770	57	ug/Kg	☼	08/08/17 10:37	08/10/17 18:42	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080317-SK-035

Lab Sample ID: 240-83321-14

Date Collected: 08/03/17 12:05

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 76.2

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	139		64 - 144	08/08/17 10:37	08/10/17 18:42	1
4-Bromofluorobenzene (Surr)	125		58 - 142	08/08/17 10:37	08/10/17 18:42	1
Toluene-d8 (Surr)	107		61 - 137	08/08/17 10:37	08/10/17 18:42	1
Dibromofluoromethane (Surr)	124		31 - 155	08/08/17 10:37	08/10/17 18:42	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080317-SK-035

Lab Sample ID: 240-83321-14

Date Collected: 08/03/17 12:05

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 76.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	66	U	66	32	ug/Kg	☼	08/08/17 08:59	08/10/17 21:45	1
Aroclor-1221	66	U	66	30	ug/Kg	☼	08/08/17 08:59	08/10/17 21:45	1
Aroclor-1232	66	U	66	21	ug/Kg	☼	08/08/17 08:59	08/10/17 21:45	1
Aroclor-1242	66	U	66	26	ug/Kg	☼	08/08/17 08:59	08/10/17 21:45	1
Aroclor-1248	66	U	66	23	ug/Kg	☼	08/08/17 08:59	08/10/17 21:45	1
Aroclor-1254	66	U	66	19	ug/Kg	☼	08/08/17 08:59	08/10/17 21:45	1
Aroclor-1260	66	U	66	24	ug/Kg	☼	08/08/17 08:59	08/10/17 21:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	81		14 - 128	08/08/17 08:59	08/10/17 21:45	1
DCB Decachlorobiphenyl	104		10 - 132	08/08/17 08:59	08/10/17 21:45	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080317-SK-035

Lab Sample ID: 240-83321-14

Date Collected: 08/03/17 12:05

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 76.2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	76.2		0.1	0.1	%			08/07/17 09:32	1
Percent Moisture	23.8		0.1	0.1	%			08/07/17 09:32	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080317-SK-036

Lab Sample ID: 240-83321-15

Date Collected: 08/03/17 14:45

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 78.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	180	J	1300	130	ug/Kg	☼	08/08/17 10:37	08/10/17 19:04	1
Benzene	330	U	330	32	ug/Kg	☼	08/08/17 10:37	08/10/17 19:04	1
Dichlorobromomethane	330	U	330	24	ug/Kg	☼	08/08/17 10:37	08/10/17 19:04	1
Bromoform	330	U	330	30	ug/Kg	☼	08/08/17 10:37	08/10/17 19:04	1
Bromomethane	330	U	330	37	ug/Kg	☼	08/08/17 10:37	08/10/17 19:04	1
2-Butanone (MEK)	1300	U	1300	66	ug/Kg	☼	08/08/17 10:37	08/10/17 19:04	1
Carbon disulfide	330	U	330	24	ug/Kg	☼	08/08/17 10:37	08/10/17 19:04	1
Carbon tetrachloride	330	U	330	36	ug/Kg	☼	08/08/17 10:37	08/10/17 19:04	1
Chlorobenzene	330	U	330	40	ug/Kg	☼	08/08/17 10:37	08/10/17 19:04	1
Chloroethane	330	U	330	37	ug/Kg	☼	08/08/17 10:37	08/10/17 19:04	1
Chloroform	330	U	330	32	ug/Kg	☼	08/08/17 10:37	08/10/17 19:04	1
Chloromethane	330	U	330	24	ug/Kg	☼	08/08/17 10:37	08/10/17 19:04	1
1,1-Dichloroethane	330	U	330	41	ug/Kg	☼	08/08/17 10:37	08/10/17 19:04	1
1,2-Dichloroethane	330	U	330	40	ug/Kg	☼	08/08/17 10:37	08/10/17 19:04	1
1,1-Dichloroethene	330	U	330	48	ug/Kg	☼	08/08/17 10:37	08/10/17 19:04	1
1,2-Dichloropropane	330	U	330	40	ug/Kg	☼	08/08/17 10:37	08/10/17 19:04	1
cis-1,3-Dichloropropene	330	U	330	30	ug/Kg	☼	08/08/17 10:37	08/10/17 19:04	1
trans-1,3-Dichloropropene	330	U	330	20	ug/Kg	☼	08/08/17 10:37	08/10/17 19:04	1
Ethylbenzene	330	U	330	46	ug/Kg	☼	08/08/17 10:37	08/10/17 19:04	1
2-Hexanone	1300	U	1300	110	ug/Kg	☼	08/08/17 10:37	08/10/17 19:04	1
Methylene Chloride	220	J B *	330	86	ug/Kg	☼	08/08/17 10:37	08/10/17 19:04	1
4-Methyl-2-pentanone (MIBK)	1300	U	1300	53	ug/Kg	☼	08/08/17 10:37	08/10/17 19:04	1
Styrene	330	U	330	13	ug/Kg	☼	08/08/17 10:37	08/10/17 19:04	1
1,1,2,2-Tetrachloroethane	330	U	330	32	ug/Kg	☼	08/08/17 10:37	08/10/17 19:04	1
Tetrachloroethene	330	U	330	28	ug/Kg	☼	08/08/17 10:37	08/10/17 19:04	1
Toluene	330	U	330	32	ug/Kg	☼	08/08/17 10:37	08/10/17 19:04	1
Trichloroethene	330	U	330	49	ug/Kg	☼	08/08/17 10:37	08/10/17 19:04	1
Vinyl chloride	330	U	330	22	ug/Kg	☼	08/08/17 10:37	08/10/17 19:04	1
Xylenes, Total	660	U	660	37	ug/Kg	☼	08/08/17 10:37	08/10/17 19:04	1
1,1,1-Trichloroethane	330	U	330	37	ug/Kg	☼	08/08/17 10:37	08/10/17 19:04	1
1,1,2-Trichloroethane	330	U	330	30	ug/Kg	☼	08/08/17 10:37	08/10/17 19:04	1
Cyclohexane	660	U	660	40	ug/Kg	☼	08/08/17 10:37	08/10/17 19:04	1
1,2-Dibromo-3-Chloropropane	660	U	660	63	ug/Kg	☼	08/08/17 10:37	08/10/17 19:04	1
Ethylene Dibromide	330	U	330	30	ug/Kg	☼	08/08/17 10:37	08/10/17 19:04	1
Dichlorodifluoromethane	330	U	330	29	ug/Kg	☼	08/08/17 10:37	08/10/17 19:04	1
cis-1,2-Dichloroethene	330	U	330	46	ug/Kg	☼	08/08/17 10:37	08/10/17 19:04	1
trans-1,2-Dichloroethene	330	U	330	46	ug/Kg	☼	08/08/17 10:37	08/10/17 19:04	1
Isopropylbenzene	330	U	330	45	ug/Kg	☼	08/08/17 10:37	08/10/17 19:04	1
Methyl acetate	1600	U	1600	99	ug/Kg	☼	08/08/17 10:37	08/10/17 19:04	1
Methyl tert-butyl ether	330	U	330	34	ug/Kg	☼	08/08/17 10:37	08/10/17 19:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	330	U	330	30	ug/Kg	☼	08/08/17 10:37	08/10/17 19:04	1
1,2,4-Trichlorobenzene	330	U	330	34	ug/Kg	☼	08/08/17 10:37	08/10/17 19:04	1
1,2-Dichlorobenzene	330	U	330	24	ug/Kg	☼	08/08/17 10:37	08/10/17 19:04	1
1,3-Dichlorobenzene	330	U	330	50	ug/Kg	☼	08/08/17 10:37	08/10/17 19:04	1
1,4-Dichlorobenzene	330	U	330	36	ug/Kg	☼	08/08/17 10:37	08/10/17 19:04	1
Trichlorofluoromethane	330	U	330	45	ug/Kg	☼	08/08/17 10:37	08/10/17 19:04	1
Chlorodibromomethane	330	U	330	45	ug/Kg	☼	08/08/17 10:37	08/10/17 19:04	1
Methylcyclohexane	660	U	660	49	ug/Kg	☼	08/08/17 10:37	08/10/17 19:04	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080317-SK-036

Lab Sample ID: 240-83321-15

Date Collected: 08/03/17 14:45

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 78.0

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	136		64 - 144	08/08/17 10:37	08/10/17 19:04	1
4-Bromofluorobenzene (Surr)	130		58 - 142	08/08/17 10:37	08/10/17 19:04	1
Toluene-d8 (Surr)	111		61 - 137	08/08/17 10:37	08/10/17 19:04	1
Dibromofluoromethane (Surr)	119		31 - 155	08/08/17 10:37	08/10/17 19:04	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080317-SK-036

Lab Sample ID: 240-83321-15

Date Collected: 08/03/17 14:45

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 78.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	64	U	64	31	ug/Kg	☼	08/08/17 08:59	08/10/17 22:04	1
Aroclor-1221	64	U	64	29	ug/Kg	☼	08/08/17 08:59	08/10/17 22:04	1
Aroclor-1232	64	U	64	20	ug/Kg	☼	08/08/17 08:59	08/10/17 22:04	1
Aroclor-1242	64	U	64	26	ug/Kg	☼	08/08/17 08:59	08/10/17 22:04	1
Aroclor-1248	64	U	64	22	ug/Kg	☼	08/08/17 08:59	08/10/17 22:04	1
Aroclor-1254	64	U	64	18	ug/Kg	☼	08/08/17 08:59	08/10/17 22:04	1
Aroclor-1260	64	U	64	23	ug/Kg	☼	08/08/17 08:59	08/10/17 22:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	79		14 - 128	08/08/17 08:59	08/10/17 22:04	1
DCB Decachlorobiphenyl	94		10 - 132	08/08/17 08:59	08/10/17 22:04	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080317-SK-036

Lab Sample ID: 240-83321-15

Date Collected: 08/03/17 14:45

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 78.0

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	78.0		0.1	0.1	%			08/07/17 09:32	1
Percent Moisture	22.0		0.1	0.1	%			08/07/17 09:32	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080317-SK-037

Lab Sample ID: 240-83321-16

Date Collected: 08/03/17 14:50

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 78.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	250	J	1400	140	ug/Kg	☼	08/08/17 10:37	08/10/17 19:25	1
Benzene	360	U	360	35	ug/Kg	☼	08/08/17 10:37	08/10/17 19:25	1
Dichlorobromomethane	360	U	360	26	ug/Kg	☼	08/08/17 10:37	08/10/17 19:25	1
Bromoform	360	U	360	33	ug/Kg	☼	08/08/17 10:37	08/10/17 19:25	1
Bromomethane	360	U	360	40	ug/Kg	☼	08/08/17 10:37	08/10/17 19:25	1
2-Butanone (MEK)	1400	U	1400	72	ug/Kg	☼	08/08/17 10:37	08/10/17 19:25	1
Carbon disulfide	360	U	360	26	ug/Kg	☼	08/08/17 10:37	08/10/17 19:25	1
Carbon tetrachloride	360	U	360	39	ug/Kg	☼	08/08/17 10:37	08/10/17 19:25	1
Chlorobenzene	360	U	360	43	ug/Kg	☼	08/08/17 10:37	08/10/17 19:25	1
Chloroethane	360	U	360	40	ug/Kg	☼	08/08/17 10:37	08/10/17 19:25	1
Chloroform	360	U	360	35	ug/Kg	☼	08/08/17 10:37	08/10/17 19:25	1
Chloromethane	360	U	360	26	ug/Kg	☼	08/08/17 10:37	08/10/17 19:25	1
1,1-Dichloroethane	360	U	360	45	ug/Kg	☼	08/08/17 10:37	08/10/17 19:25	1
1,2-Dichloroethane	360	U	360	43	ug/Kg	☼	08/08/17 10:37	08/10/17 19:25	1
1,1-Dichloroethene	360	U	360	52	ug/Kg	☼	08/08/17 10:37	08/10/17 19:25	1
1,2-Dichloropropane	360	U	360	43	ug/Kg	☼	08/08/17 10:37	08/10/17 19:25	1
cis-1,3-Dichloropropene	360	U	360	33	ug/Kg	☼	08/08/17 10:37	08/10/17 19:25	1
trans-1,3-Dichloropropene	360	U	360	22	ug/Kg	☼	08/08/17 10:37	08/10/17 19:25	1
Ethylbenzene	360	U	360	50	ug/Kg	☼	08/08/17 10:37	08/10/17 19:25	1
2-Hexanone	1400	U	1400	120	ug/Kg	☼	08/08/17 10:37	08/10/17 19:25	1
Methylene Chloride	240	J B *	360	94	ug/Kg	☼	08/08/17 10:37	08/10/17 19:25	1
4-Methyl-2-pentanone (MIBK)	1400	U	1400	58	ug/Kg	☼	08/08/17 10:37	08/10/17 19:25	1
Styrene	360	U	360	14	ug/Kg	☼	08/08/17 10:37	08/10/17 19:25	1
1,1,2,2-Tetrachloroethane	360	U	360	35	ug/Kg	☼	08/08/17 10:37	08/10/17 19:25	1
Tetrachloroethene	360	U	360	30	ug/Kg	☼	08/08/17 10:37	08/10/17 19:25	1
Toluene	360	U	360	35	ug/Kg	☼	08/08/17 10:37	08/10/17 19:25	1
Trichloroethene	360	U	360	53	ug/Kg	☼	08/08/17 10:37	08/10/17 19:25	1
Vinyl chloride	360	U	360	24	ug/Kg	☼	08/08/17 10:37	08/10/17 19:25	1
Xylenes, Total	720	U	720	40	ug/Kg	☼	08/08/17 10:37	08/10/17 19:25	1
1,1,1-Trichloroethane	360	U	360	40	ug/Kg	☼	08/08/17 10:37	08/10/17 19:25	1
1,1,2-Trichloroethane	360	U	360	33	ug/Kg	☼	08/08/17 10:37	08/10/17 19:25	1
Cyclohexane	720	U	720	43	ug/Kg	☼	08/08/17 10:37	08/10/17 19:25	1
1,2-Dibromo-3-Chloropropane	720	U	720	69	ug/Kg	☼	08/08/17 10:37	08/10/17 19:25	1
Ethylene Dibromide	360	U	360	33	ug/Kg	☼	08/08/17 10:37	08/10/17 19:25	1
Dichlorodifluoromethane	360	U	360	32	ug/Kg	☼	08/08/17 10:37	08/10/17 19:25	1
cis-1,2-Dichloroethene	360	U	360	50	ug/Kg	☼	08/08/17 10:37	08/10/17 19:25	1
trans-1,2-Dichloroethene	360	U	360	50	ug/Kg	☼	08/08/17 10:37	08/10/17 19:25	1
Isopropylbenzene	360	U	360	49	ug/Kg	☼	08/08/17 10:37	08/10/17 19:25	1
Methyl acetate	1800	U	1800	110	ug/Kg	☼	08/08/17 10:37	08/10/17 19:25	1
Methyl tert-butyl ether	360	U	360	37	ug/Kg	☼	08/08/17 10:37	08/10/17 19:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	360	U	360	33	ug/Kg	☼	08/08/17 10:37	08/10/17 19:25	1
1,2,4-Trichlorobenzene	360	U	360	37	ug/Kg	☼	08/08/17 10:37	08/10/17 19:25	1
1,2-Dichlorobenzene	360	U	360	26	ug/Kg	☼	08/08/17 10:37	08/10/17 19:25	1
1,3-Dichlorobenzene	360	U	360	55	ug/Kg	☼	08/08/17 10:37	08/10/17 19:25	1
1,4-Dichlorobenzene	360	U	360	39	ug/Kg	☼	08/08/17 10:37	08/10/17 19:25	1
Trichlorofluoromethane	360	U	360	49	ug/Kg	☼	08/08/17 10:37	08/10/17 19:25	1
Chlorodibromomethane	360	U	360	49	ug/Kg	☼	08/08/17 10:37	08/10/17 19:25	1
Methylcyclohexane	720	U	720	53	ug/Kg	☼	08/08/17 10:37	08/10/17 19:25	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080317-SK-037

Lab Sample ID: 240-83321-16

Date Collected: 08/03/17 14:50

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 78.1

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	135		64 - 144	08/08/17 10:37	08/10/17 19:25	1
4-Bromofluorobenzene (Surr)	127		58 - 142	08/08/17 10:37	08/10/17 19:25	1
Toluene-d8 (Surr)	110		61 - 137	08/08/17 10:37	08/10/17 19:25	1
Dibromofluoromethane (Surr)	120		31 - 155	08/08/17 10:37	08/10/17 19:25	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080317-SK-037

Lab Sample ID: 240-83321-16

Date Collected: 08/03/17 14:50

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 78.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	63	U	63	30	ug/Kg	☼	08/08/17 10:18	08/10/17 08:25	1
Aroclor-1221	63	U	63	29	ug/Kg	☼	08/08/17 10:18	08/10/17 08:25	1
Aroclor-1232	63	U	63	20	ug/Kg	☼	08/08/17 10:18	08/10/17 08:25	1
Aroclor-1242	63	U	63	25	ug/Kg	☼	08/08/17 10:18	08/10/17 08:25	1
Aroclor-1248	63	U	63	22	ug/Kg	☼	08/08/17 10:18	08/10/17 08:25	1
Aroclor-1254	63	U	63	18	ug/Kg	☼	08/08/17 10:18	08/10/17 08:25	1
Aroclor-1260	63	U	63	23	ug/Kg	☼	08/08/17 10:18	08/10/17 08:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	88		14 - 128	08/08/17 10:18	08/10/17 08:25	1
DCB Decachlorobiphenyl	90		10 - 132	08/08/17 10:18	08/10/17 08:25	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080317-SK-037

Lab Sample ID: 240-83321-16

Date Collected: 08/03/17 14:50

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 78.1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	78.1		0.1	0.1	%			08/07/17 09:32	1
Percent Moisture	21.9		0.1	0.1	%			08/07/17 09:32	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080317-SK-038

Lab Sample ID: 240-83321-17

Date Collected: 08/03/17 16:10

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1400	U	1400	140	ug/Kg	☼	08/08/17 11:23	08/10/17 19:46	1
Benzene	350	U	350	34	ug/Kg	☼	08/08/17 11:23	08/10/17 19:46	1
Dichlorobromomethane	350	U	350	25	ug/Kg	☼	08/08/17 11:23	08/10/17 19:46	1
Bromoform	350	U	350	32	ug/Kg	☼	08/08/17 11:23	08/10/17 19:46	1
Bromomethane	350	U	350	40	ug/Kg	☼	08/08/17 11:23	08/10/17 19:46	1
2-Butanone (MEK)	1400	U	1400	71	ug/Kg	☼	08/08/17 11:23	08/10/17 19:46	1
Carbon disulfide	350	U	350	25	ug/Kg	☼	08/08/17 11:23	08/10/17 19:46	1
Carbon tetrachloride	350	U	350	38	ug/Kg	☼	08/08/17 11:23	08/10/17 19:46	1
Chlorobenzene	350	U	350	42	ug/Kg	☼	08/08/17 11:23	08/10/17 19:46	1
Chloroethane	350	U	350	40	ug/Kg	☼	08/08/17 11:23	08/10/17 19:46	1
Chloroform	350	U	350	34	ug/Kg	☼	08/08/17 11:23	08/10/17 19:46	1
Chloromethane	350	U	350	25	ug/Kg	☼	08/08/17 11:23	08/10/17 19:46	1
1,1-Dichloroethane	350	U	350	44	ug/Kg	☼	08/08/17 11:23	08/10/17 19:46	1
1,2-Dichloroethane	350	U	350	42	ug/Kg	☼	08/08/17 11:23	08/10/17 19:46	1
1,1-Dichloroethene	350	U	350	51	ug/Kg	☼	08/08/17 11:23	08/10/17 19:46	1
1,2-Dichloropropane	350	U	350	42	ug/Kg	☼	08/08/17 11:23	08/10/17 19:46	1
cis-1,3-Dichloropropene	350	U	350	32	ug/Kg	☼	08/08/17 11:23	08/10/17 19:46	1
trans-1,3-Dichloropropene	350	U	350	21	ug/Kg	☼	08/08/17 11:23	08/10/17 19:46	1
Ethylbenzene	350	U	350	49	ug/Kg	☼	08/08/17 11:23	08/10/17 19:46	1
2-Hexanone	1400	U	1400	120	ug/Kg	☼	08/08/17 11:23	08/10/17 19:46	1
Methylene Chloride	240	J B	350	92	ug/Kg	☼	08/08/17 11:23	08/10/17 19:46	1
4-Methyl-2-pentanone (MIBK)	1400	U	1400	57	ug/Kg	☼	08/08/17 11:23	08/10/17 19:46	1
Styrene	350	U	350	14	ug/Kg	☼	08/08/17 11:23	08/10/17 19:46	1
1,1,2,2-Tetrachloroethane	350	U	350	34	ug/Kg	☼	08/08/17 11:23	08/10/17 19:46	1
Tetrachloroethene	350	U	350	30	ug/Kg	☼	08/08/17 11:23	08/10/17 19:46	1
Toluene	350	U	350	34	ug/Kg	☼	08/08/17 11:23	08/10/17 19:46	1
Trichloroethene	350	U	350	52	ug/Kg	☼	08/08/17 11:23	08/10/17 19:46	1
Vinyl chloride	350	U	350	24	ug/Kg	☼	08/08/17 11:23	08/10/17 19:46	1
Xylenes, Total	710	U	710	40	ug/Kg	☼	08/08/17 11:23	08/10/17 19:46	1
1,1,1-Trichloroethane	350	U	350	40	ug/Kg	☼	08/08/17 11:23	08/10/17 19:46	1
1,1,2-Trichloroethane	350	U	350	32	ug/Kg	☼	08/08/17 11:23	08/10/17 19:46	1
Cyclohexane	710	U	710	42	ug/Kg	☼	08/08/17 11:23	08/10/17 19:46	1
1,2-Dibromo-3-Chloropropane	710	U	710	68	ug/Kg	☼	08/08/17 11:23	08/10/17 19:46	1
Ethylene Dibromide	350	U	350	32	ug/Kg	☼	08/08/17 11:23	08/10/17 19:46	1
Dichlorodifluoromethane	350	U	350	31	ug/Kg	☼	08/08/17 11:23	08/10/17 19:46	1
cis-1,2-Dichloroethene	350	U	350	49	ug/Kg	☼	08/08/17 11:23	08/10/17 19:46	1
trans-1,2-Dichloroethene	350	U	350	49	ug/Kg	☼	08/08/17 11:23	08/10/17 19:46	1
Isopropylbenzene	350	U	350	48	ug/Kg	☼	08/08/17 11:23	08/10/17 19:46	1
Methyl acetate	1800	U	1800	110	ug/Kg	☼	08/08/17 11:23	08/10/17 19:46	1
Methyl tert-butyl ether	350	U	350	37	ug/Kg	☼	08/08/17 11:23	08/10/17 19:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	350	U	350	32	ug/Kg	☼	08/08/17 11:23	08/10/17 19:46	1
1,2,4-Trichlorobenzene	350	U	350	37	ug/Kg	☼	08/08/17 11:23	08/10/17 19:46	1
1,2-Dichlorobenzene	350	U	350	25	ug/Kg	☼	08/08/17 11:23	08/10/17 19:46	1
1,3-Dichlorobenzene	350	U	350	54	ug/Kg	☼	08/08/17 11:23	08/10/17 19:46	1
1,4-Dichlorobenzene	350	U	350	38	ug/Kg	☼	08/08/17 11:23	08/10/17 19:46	1
Trichlorofluoromethane	350	U	350	48	ug/Kg	☼	08/08/17 11:23	08/10/17 19:46	1
Chlorodibromomethane	350	U	350	48	ug/Kg	☼	08/08/17 11:23	08/10/17 19:46	1
Methylcyclohexane	710	U	710	52	ug/Kg	☼	08/08/17 11:23	08/10/17 19:46	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080317-SK-038

Lab Sample ID: 240-83321-17

Date Collected: 08/03/17 16:10

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 82.1

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	135		64 - 144	08/08/17 11:23	08/10/17 19:46	1
4-Bromofluorobenzene (Surr)	141		58 - 142	08/08/17 11:23	08/10/17 19:46	1
Toluene-d8 (Surr)	116		61 - 137	08/08/17 11:23	08/10/17 19:46	1
Dibromofluoromethane (Surr)	123		31 - 155	08/08/17 11:23	08/10/17 19:46	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080317-SK-038

Lab Sample ID: 240-83321-17

Date Collected: 08/03/17 16:10

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	60	U	60	29	ug/Kg	☼	08/08/17 10:18	08/10/17 08:43	1
Aroclor-1221	60	U	60	27	ug/Kg	☼	08/08/17 10:18	08/10/17 08:43	1
Aroclor-1232	60	U	60	19	ug/Kg	☼	08/08/17 10:18	08/10/17 08:43	1
Aroclor-1242	60	U	60	24	ug/Kg	☼	08/08/17 10:18	08/10/17 08:43	1
Aroclor-1248	60	U	60	20	ug/Kg	☼	08/08/17 10:18	08/10/17 08:43	1
Aroclor-1254	60	U	60	17	ug/Kg	☼	08/08/17 10:18	08/10/17 08:43	1
Aroclor-1260	60	U	60	21	ug/Kg	☼	08/08/17 10:18	08/10/17 08:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	90		14 - 128	08/08/17 10:18	08/10/17 08:43	1
DCB Decachlorobiphenyl	91		10 - 132	08/08/17 10:18	08/10/17 08:43	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080317-SK-038

Lab Sample ID: 240-83321-17

Date Collected: 08/03/17 16:10

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 82.1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	82.1		0.1	0.1	%			08/07/17 09:32	1
Percent Moisture	17.9		0.1	0.1	%			08/07/17 09:32	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080317-SK-039

Lab Sample ID: 240-83321-18

Date Collected: 08/03/17 16:15

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	180	J	1300	130	ug/Kg	☼	08/08/17 11:23	08/10/17 20:08	1
Benzene	330	U	330	32	ug/Kg	☼	08/08/17 11:23	08/10/17 20:08	1
Dichlorobromomethane	330	U	330	24	ug/Kg	☼	08/08/17 11:23	08/10/17 20:08	1
Bromoform	330	U	330	31	ug/Kg	☼	08/08/17 11:23	08/10/17 20:08	1
Bromomethane	330	U	330	37	ug/Kg	☼	08/08/17 11:23	08/10/17 20:08	1
2-Butanone (MEK)	1300	U	1300	66	ug/Kg	☼	08/08/17 11:23	08/10/17 20:08	1
Carbon disulfide	330	U	330	24	ug/Kg	☼	08/08/17 11:23	08/10/17 20:08	1
Carbon tetrachloride	330	U	330	36	ug/Kg	☼	08/08/17 11:23	08/10/17 20:08	1
Chlorobenzene	330	U	330	40	ug/Kg	☼	08/08/17 11:23	08/10/17 20:08	1
Chloroethane	330	U	330	37	ug/Kg	☼	08/08/17 11:23	08/10/17 20:08	1
Chloroform	330	U	330	32	ug/Kg	☼	08/08/17 11:23	08/10/17 20:08	1
Chloromethane	330	U	330	24	ug/Kg	☼	08/08/17 11:23	08/10/17 20:08	1
1,1-Dichloroethane	330	U	330	41	ug/Kg	☼	08/08/17 11:23	08/10/17 20:08	1
1,2-Dichloroethane	330	U	330	40	ug/Kg	☼	08/08/17 11:23	08/10/17 20:08	1
1,1-Dichloroethene	330	U	330	48	ug/Kg	☼	08/08/17 11:23	08/10/17 20:08	1
1,2-Dichloropropane	330	U	330	40	ug/Kg	☼	08/08/17 11:23	08/10/17 20:08	1
cis-1,3-Dichloropropene	330	U	330	31	ug/Kg	☼	08/08/17 11:23	08/10/17 20:08	1
trans-1,3-Dichloropropene	330	U	330	20	ug/Kg	☼	08/08/17 11:23	08/10/17 20:08	1
Ethylbenzene	330	U	330	46	ug/Kg	☼	08/08/17 11:23	08/10/17 20:08	1
2-Hexanone	1300	U	1300	110	ug/Kg	☼	08/08/17 11:23	08/10/17 20:08	1
Methylene Chloride	240	J B	330	86	ug/Kg	☼	08/08/17 11:23	08/10/17 20:08	1
4-Methyl-2-pentanone (MIBK)	1300	U	1300	53	ug/Kg	☼	08/08/17 11:23	08/10/17 20:08	1
Styrene	330	U	330	13	ug/Kg	☼	08/08/17 11:23	08/10/17 20:08	1
1,1,2,2-Tetrachloroethane	330	U	330	32	ug/Kg	☼	08/08/17 11:23	08/10/17 20:08	1
Tetrachloroethene	330	U	330	28	ug/Kg	☼	08/08/17 11:23	08/10/17 20:08	1
Toluene	330	U	330	32	ug/Kg	☼	08/08/17 11:23	08/10/17 20:08	1
Trichloroethene	330	U	330	49	ug/Kg	☼	08/08/17 11:23	08/10/17 20:08	1
Vinyl chloride	330	U	330	23	ug/Kg	☼	08/08/17 11:23	08/10/17 20:08	1
Xylenes, Total	660	U	660	37	ug/Kg	☼	08/08/17 11:23	08/10/17 20:08	1
1,1,1-Trichloroethane	330	U	330	37	ug/Kg	☼	08/08/17 11:23	08/10/17 20:08	1
1,1,2-Trichloroethane	330	U	330	31	ug/Kg	☼	08/08/17 11:23	08/10/17 20:08	1
Cyclohexane	660	U	660	40	ug/Kg	☼	08/08/17 11:23	08/10/17 20:08	1
1,2-Dibromo-3-Chloropropane	660	U	660	64	ug/Kg	☼	08/08/17 11:23	08/10/17 20:08	1
Ethylene Dibromide	330	U	330	31	ug/Kg	☼	08/08/17 11:23	08/10/17 20:08	1
Dichlorodifluoromethane	330	U	330	29	ug/Kg	☼	08/08/17 11:23	08/10/17 20:08	1
cis-1,2-Dichloroethene	330	U	330	46	ug/Kg	☼	08/08/17 11:23	08/10/17 20:08	1
trans-1,2-Dichloroethene	330	U	330	46	ug/Kg	☼	08/08/17 11:23	08/10/17 20:08	1
Isopropylbenzene	330	U	330	45	ug/Kg	☼	08/08/17 11:23	08/10/17 20:08	1
Methyl acetate	1700	U	1700	100	ug/Kg	☼	08/08/17 11:23	08/10/17 20:08	1
Methyl tert-butyl ether	330	U	330	35	ug/Kg	☼	08/08/17 11:23	08/10/17 20:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	330	U	330	31	ug/Kg	☼	08/08/17 11:23	08/10/17 20:08	1
1,2,4-Trichlorobenzene	330	U	330	35	ug/Kg	☼	08/08/17 11:23	08/10/17 20:08	1
1,2-Dichlorobenzene	330	U	330	24	ug/Kg	☼	08/08/17 11:23	08/10/17 20:08	1
1,3-Dichlorobenzene	330	U	330	50	ug/Kg	☼	08/08/17 11:23	08/10/17 20:08	1
1,4-Dichlorobenzene	330	U	330	36	ug/Kg	☼	08/08/17 11:23	08/10/17 20:08	1
Trichlorofluoromethane	330	U	330	45	ug/Kg	☼	08/08/17 11:23	08/10/17 20:08	1
Chlorodibromomethane	330	U	330	45	ug/Kg	☼	08/08/17 11:23	08/10/17 20:08	1
Methylcyclohexane	660	U	660	49	ug/Kg	☼	08/08/17 11:23	08/10/17 20:08	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080317-SK-039

Lab Sample ID: 240-83321-18

Date Collected: 08/03/17 16:15

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 79.2

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	129		64 - 144	08/08/17 11:23	08/10/17 20:08	1
4-Bromofluorobenzene (Surr)	126		58 - 142	08/08/17 11:23	08/10/17 20:08	1
Toluene-d8 (Surr)	106		61 - 137	08/08/17 11:23	08/10/17 20:08	1
Dibromofluoromethane (Surr)	116		31 - 155	08/08/17 11:23	08/10/17 20:08	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080317-SK-039

Lab Sample ID: 240-83321-18

Date Collected: 08/03/17 16:15

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	62	U	62	30	ug/Kg	☼	08/08/17 10:18	08/10/17 09:02	1
Aroclor-1221	62	U	62	29	ug/Kg	☼	08/08/17 10:18	08/10/17 09:02	1
Aroclor-1232	62	U	62	20	ug/Kg	☼	08/08/17 10:18	08/10/17 09:02	1
Aroclor-1242	62	U	62	25	ug/Kg	☼	08/08/17 10:18	08/10/17 09:02	1
Aroclor-1248	62	U	62	21	ug/Kg	☼	08/08/17 10:18	08/10/17 09:02	1
Aroclor-1254	62	U	62	17	ug/Kg	☼	08/08/17 10:18	08/10/17 09:02	1
Aroclor-1260	62	U	62	22	ug/Kg	☼	08/08/17 10:18	08/10/17 09:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	77		14 - 128	08/08/17 10:18	08/10/17 09:02	1
DCB Decachlorobiphenyl	89		10 - 132	08/08/17 10:18	08/10/17 09:02	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080317-SK-039

Lab Sample ID: 240-83321-18

Date Collected: 08/03/17 16:15

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 79.2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	79.2		0.1	0.1	%			08/07/17 09:32	1
Percent Moisture	20.8		0.1	0.1	%			08/07/17 09:32	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080317-SK-040

Lab Sample ID: 240-83321-19

Date Collected: 08/03/17 16:50

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 71.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1600	U F1	1600	160	ug/Kg	☼	08/08/17 11:23	08/10/17 20:29	1
Benzene	410	U F1	410	39	ug/Kg	☼	08/08/17 11:23	08/10/17 20:29	1
Dichlorobromomethane	410	U F1	410	29	ug/Kg	☼	08/08/17 11:23	08/10/17 20:29	1
Bromoform	410	U F1	410	38	ug/Kg	☼	08/08/17 11:23	08/10/17 20:29	1
Bromomethane	410	U F2	410	46	ug/Kg	☼	08/08/17 11:23	08/10/17 20:29	1
2-Butanone (MEK)	1600	U F1	1600	82	ug/Kg	☼	08/08/17 11:23	08/10/17 20:29	1
Carbon disulfide	410	U F2	410	29	ug/Kg	☼	08/08/17 11:23	08/10/17 20:29	1
Carbon tetrachloride	410	U F1	410	44	ug/Kg	☼	08/08/17 11:23	08/10/17 20:29	1
Chlorobenzene	410	U F1	410	49	ug/Kg	☼	08/08/17 11:23	08/10/17 20:29	1
Chloroethane	410	U	410	46	ug/Kg	☼	08/08/17 11:23	08/10/17 20:29	1
Chloroform	410	U F1	410	39	ug/Kg	☼	08/08/17 11:23	08/10/17 20:29	1
Chloromethane	410	U F1 F2	410	29	ug/Kg	☼	08/08/17 11:23	08/10/17 20:29	1
1,1-Dichloroethane	410	U F1	410	51	ug/Kg	☼	08/08/17 11:23	08/10/17 20:29	1
1,2-Dichloroethane	410	U F1	410	49	ug/Kg	☼	08/08/17 11:23	08/10/17 20:29	1
1,1-Dichloroethene	410	U F2	410	59	ug/Kg	☼	08/08/17 11:23	08/10/17 20:29	1
1,2-Dichloropropane	410	U F1	410	49	ug/Kg	☼	08/08/17 11:23	08/10/17 20:29	1
cis-1,3-Dichloropropene	410	U F1	410	38	ug/Kg	☼	08/08/17 11:23	08/10/17 20:29	1
trans-1,3-Dichloropropene	410	U F1	410	25	ug/Kg	☼	08/08/17 11:23	08/10/17 20:29	1
Ethylbenzene	410	U F1	410	57	ug/Kg	☼	08/08/17 11:23	08/10/17 20:29	1
2-Hexanone	1600	U F1 F2	1600	140	ug/Kg	☼	08/08/17 11:23	08/10/17 20:29	1
Methylene Chloride	270	J F1 B	410	110	ug/Kg	☼	08/08/17 11:23	08/10/17 20:29	1
4-Methyl-2-pentanone (MIBK)	1600	U F2	1600	66	ug/Kg	☼	08/08/17 11:23	08/10/17 20:29	1
Styrene	410	U F1	410	16	ug/Kg	☼	08/08/17 11:23	08/10/17 20:29	1
1,1,2,2-Tetrachloroethane	410	U F1	410	39	ug/Kg	☼	08/08/17 11:23	08/10/17 20:29	1
Tetrachloroethene	410	U F1	410	34	ug/Kg	☼	08/08/17 11:23	08/10/17 20:29	1
Toluene	410	U F1	410	39	ug/Kg	☼	08/08/17 11:23	08/10/17 20:29	1
Trichloroethene	410	U	410	61	ug/Kg	☼	08/08/17 11:23	08/10/17 20:29	1
Vinyl chloride	410	U F2	410	28	ug/Kg	☼	08/08/17 11:23	08/10/17 20:29	1
Xylenes, Total	820	U F1	820	46	ug/Kg	☼	08/08/17 11:23	08/10/17 20:29	1
1,1,1-Trichloroethane	410	U F1	410	46	ug/Kg	☼	08/08/17 11:23	08/10/17 20:29	1
1,1,2-Trichloroethane	410	U F1	410	38	ug/Kg	☼	08/08/17 11:23	08/10/17 20:29	1
Cyclohexane	820	U F1 F2	820	49	ug/Kg	☼	08/08/17 11:23	08/10/17 20:29	1
1,2-Dibromo-3-Chloropropane	820	U F1	820	79	ug/Kg	☼	08/08/17 11:23	08/10/17 20:29	1
Ethylene Dibromide	410	U F1	410	38	ug/Kg	☼	08/08/17 11:23	08/10/17 20:29	1
Dichlorodifluoromethane	410	U F2	410	36	ug/Kg	☼	08/08/17 11:23	08/10/17 20:29	1
cis-1,2-Dichloroethene	410	U F1	410	57	ug/Kg	☼	08/08/17 11:23	08/10/17 20:29	1
trans-1,2-Dichloroethene	410	U F1	410	57	ug/Kg	☼	08/08/17 11:23	08/10/17 20:29	1
Isopropylbenzene	410	U F1	410	56	ug/Kg	☼	08/08/17 11:23	08/10/17 20:29	1
Methyl acetate	2000	U F1	2000	120	ug/Kg	☼	08/08/17 11:23	08/10/17 20:29	1
Methyl tert-butyl ether	410	U F1	410	43	ug/Kg	☼	08/08/17 11:23	08/10/17 20:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	410	U	410	38	ug/Kg	☼	08/08/17 11:23	08/10/17 20:29	1
1,2,4-Trichlorobenzene	410	U F1	410	43	ug/Kg	☼	08/08/17 11:23	08/10/17 20:29	1
1,2-Dichlorobenzene	410	U F1	410	29	ug/Kg	☼	08/08/17 11:23	08/10/17 20:29	1
1,3-Dichlorobenzene	410	U F1	410	62	ug/Kg	☼	08/08/17 11:23	08/10/17 20:29	1
1,4-Dichlorobenzene	410	U F1	410	44	ug/Kg	☼	08/08/17 11:23	08/10/17 20:29	1
Trichlorofluoromethane	410	U F2	410	56	ug/Kg	☼	08/08/17 11:23	08/10/17 20:29	1
Chlorodibromomethane	410	U F1	410	56	ug/Kg	☼	08/08/17 11:23	08/10/17 20:29	1
Methylcyclohexane	820	U F1 F2	820	61	ug/Kg	☼	08/08/17 11:23	08/10/17 20:29	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080317-SK-040

Lab Sample ID: 240-83321-19

Date Collected: 08/03/17 16:50

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 71.9

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	142		64 - 144	08/08/17 11:23	08/10/17 20:29	1
4-Bromofluorobenzene (Surr)	138		58 - 142	08/08/17 11:23	08/10/17 20:29	1
Toluene-d8 (Surr)	120		61 - 137	08/08/17 11:23	08/10/17 20:29	1
Dibromofluoromethane (Surr)	129		31 - 155	08/08/17 11:23	08/10/17 20:29	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080317-SK-040

Lab Sample ID: 240-83321-19

Date Collected: 08/03/17 16:50

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 71.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	69	U	69	33	ug/Kg	☼	08/08/17 10:18	08/10/17 09:20	1
Aroclor-1221	69	U	69	32	ug/Kg	☼	08/08/17 10:18	08/10/17 09:20	1
Aroclor-1232	69	U	69	22	ug/Kg	☼	08/08/17 10:18	08/10/17 09:20	1
Aroclor-1242	69	U	69	28	ug/Kg	☼	08/08/17 10:18	08/10/17 09:20	1
Aroclor-1248	69	U	69	24	ug/Kg	☼	08/08/17 10:18	08/10/17 09:20	1
Aroclor-1254	69	U	69	19	ug/Kg	☼	08/08/17 10:18	08/10/17 09:20	1
Aroclor-1260	69	U	69	25	ug/Kg	☼	08/08/17 10:18	08/10/17 09:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	76		14 - 128				08/08/17 10:18	08/10/17 09:20	1
DCB Decachlorobiphenyl	87		10 - 132				08/08/17 10:18	08/10/17 09:20	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080317-SK-040

Lab Sample ID: 240-83321-19

Date Collected: 08/03/17 16:50

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 71.9

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	71.9		0.1	0.1	%			08/07/17 09:41	1
Percent Moisture	28.1		0.1	0.1	%			08/07/17 09:41	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080317-SK-041

Lab Sample ID: 240-83321-20

Date Collected: 08/03/17 16:55

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 71.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1700	U	1700	170	ug/Kg	☼	08/08/17 11:23	08/10/17 21:33	1
Benzene	430	U	430	41	ug/Kg	☼	08/08/17 11:23	08/10/17 21:33	1
Dichlorobromomethane	430	U	430	31	ug/Kg	☼	08/08/17 11:23	08/10/17 21:33	1
Bromoform	430	U	430	40	ug/Kg	☼	08/08/17 11:23	08/10/17 21:33	1
Bromomethane	430	U	430	48	ug/Kg	☼	08/08/17 11:23	08/10/17 21:33	1
2-Butanone (MEK)	1700	U	1700	86	ug/Kg	☼	08/08/17 11:23	08/10/17 21:33	1
Carbon disulfide	430	U	430	31	ug/Kg	☼	08/08/17 11:23	08/10/17 21:33	1
Carbon tetrachloride	430	U	430	46	ug/Kg	☼	08/08/17 11:23	08/10/17 21:33	1
Chlorobenzene	430	U	430	52	ug/Kg	☼	08/08/17 11:23	08/10/17 21:33	1
Chloroethane	430	U	430	48	ug/Kg	☼	08/08/17 11:23	08/10/17 21:33	1
Chloroform	430	U	430	41	ug/Kg	☼	08/08/17 11:23	08/10/17 21:33	1
Chloromethane	430	U	430	31	ug/Kg	☼	08/08/17 11:23	08/10/17 21:33	1
1,1-Dichloroethane	430	U	430	53	ug/Kg	☼	08/08/17 11:23	08/10/17 21:33	1
1,2-Dichloroethane	430	U	430	52	ug/Kg	☼	08/08/17 11:23	08/10/17 21:33	1
1,1-Dichloroethene	430	U	430	62	ug/Kg	☼	08/08/17 11:23	08/10/17 21:33	1
1,2-Dichloropropane	430	U	430	52	ug/Kg	☼	08/08/17 11:23	08/10/17 21:33	1
cis-1,3-Dichloropropene	430	U	430	40	ug/Kg	☼	08/08/17 11:23	08/10/17 21:33	1
trans-1,3-Dichloropropene	430	U	430	26	ug/Kg	☼	08/08/17 11:23	08/10/17 21:33	1
Ethylbenzene	430	U	430	60	ug/Kg	☼	08/08/17 11:23	08/10/17 21:33	1
2-Hexanone	1700	U	1700	150	ug/Kg	☼	08/08/17 11:23	08/10/17 21:33	1
Methylene Chloride	280	J B	430	110	ug/Kg	☼	08/08/17 11:23	08/10/17 21:33	1
4-Methyl-2-pentanone (MIBK)	1700	U	1700	69	ug/Kg	☼	08/08/17 11:23	08/10/17 21:33	1
Styrene	430	U	430	17	ug/Kg	☼	08/08/17 11:23	08/10/17 21:33	1
1,1,2,2-Tetrachloroethane	430	U	430	41	ug/Kg	☼	08/08/17 11:23	08/10/17 21:33	1
Tetrachloroethene	430	U	430	36	ug/Kg	☼	08/08/17 11:23	08/10/17 21:33	1
Toluene	430	U	430	41	ug/Kg	☼	08/08/17 11:23	08/10/17 21:33	1
Trichloroethene	430	U	430	64	ug/Kg	☼	08/08/17 11:23	08/10/17 21:33	1
Vinyl chloride	430	U	430	29	ug/Kg	☼	08/08/17 11:23	08/10/17 21:33	1
Xylenes, Total	860	U	860	48	ug/Kg	☼	08/08/17 11:23	08/10/17 21:33	1
1,1,1-Trichloroethane	430	U	430	48	ug/Kg	☼	08/08/17 11:23	08/10/17 21:33	1
1,1,2-Trichloroethane	430	U	430	40	ug/Kg	☼	08/08/17 11:23	08/10/17 21:33	1
Cyclohexane	860	U	860	52	ug/Kg	☼	08/08/17 11:23	08/10/17 21:33	1
1,2-Dibromo-3-Chloropropane	860	U	860	83	ug/Kg	☼	08/08/17 11:23	08/10/17 21:33	1
Ethylene Dibromide	430	U	430	40	ug/Kg	☼	08/08/17 11:23	08/10/17 21:33	1
Dichlorodifluoromethane	430	U	430	38	ug/Kg	☼	08/08/17 11:23	08/10/17 21:33	1
cis-1,2-Dichloroethene	430	U	430	60	ug/Kg	☼	08/08/17 11:23	08/10/17 21:33	1
trans-1,2-Dichloroethene	430	U	430	60	ug/Kg	☼	08/08/17 11:23	08/10/17 21:33	1
Isopropylbenzene	430	U	430	59	ug/Kg	☼	08/08/17 11:23	08/10/17 21:33	1
Methyl acetate	2200	U	2200	130	ug/Kg	☼	08/08/17 11:23	08/10/17 21:33	1
Methyl tert-butyl ether	430	U	430	45	ug/Kg	☼	08/08/17 11:23	08/10/17 21:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	430	U	430	40	ug/Kg	☼	08/08/17 11:23	08/10/17 21:33	1
1,2,4-Trichlorobenzene	430	U	430	45	ug/Kg	☼	08/08/17 11:23	08/10/17 21:33	1
1,2-Dichlorobenzene	430	U	430	31	ug/Kg	☼	08/08/17 11:23	08/10/17 21:33	1
1,3-Dichlorobenzene	430	U	430	65	ug/Kg	☼	08/08/17 11:23	08/10/17 21:33	1
1,4-Dichlorobenzene	430	U	430	46	ug/Kg	☼	08/08/17 11:23	08/10/17 21:33	1
Trichlorofluoromethane	430	U	430	59	ug/Kg	☼	08/08/17 11:23	08/10/17 21:33	1
Chlorodibromomethane	430	U	430	59	ug/Kg	☼	08/08/17 11:23	08/10/17 21:33	1
Methylcyclohexane	860	U	860	64	ug/Kg	☼	08/08/17 11:23	08/10/17 21:33	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080317-SK-041

Lab Sample ID: 240-83321-20

Date Collected: 08/03/17 16:55

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 71.7

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	128		64 - 144	08/08/17 11:23	08/10/17 21:33	1
4-Bromofluorobenzene (Surr)	122		58 - 142	08/08/17 11:23	08/10/17 21:33	1
Toluene-d8 (Surr)	105		61 - 137	08/08/17 11:23	08/10/17 21:33	1
Dibromofluoromethane (Surr)	114		31 - 155	08/08/17 11:23	08/10/17 21:33	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080317-SK-041

Lab Sample ID: 240-83321-20

Date Collected: 08/03/17 16:55

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 71.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	69	U	69	33	ug/Kg	☼	08/08/17 10:18	08/10/17 10:16	1
Aroclor-1221	69	U	69	32	ug/Kg	☼	08/08/17 10:18	08/10/17 10:16	1
Aroclor-1232	69	U	69	22	ug/Kg	☼	08/08/17 10:18	08/10/17 10:16	1
Aroclor-1242	69	U	69	28	ug/Kg	☼	08/08/17 10:18	08/10/17 10:16	1
Aroclor-1248	69	U	69	23	ug/Kg	☼	08/08/17 10:18	08/10/17 10:16	1
Aroclor-1254	69	U	69	19	ug/Kg	☼	08/08/17 10:18	08/10/17 10:16	1
Aroclor-1260	69	U	69	25	ug/Kg	☼	08/08/17 10:18	08/10/17 10:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	73		14 - 128				08/08/17 10:18	08/10/17 10:16	1
DCB Decachlorobiphenyl	86		10 - 132				08/08/17 10:18	08/10/17 10:16	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080317-SK-041

Lab Sample ID: 240-83321-20

Date Collected: 08/03/17 16:55

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 71.7

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	71.7		0.1	0.1	%			08/07/17 09:32	1
Percent Moisture	28.3		0.1	0.1	%			08/07/17 09:32	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: TB-12609-080417-SK

Lab Sample ID: 240-83321-21

Date Collected: 08/04/17 00:00

Matrix: Solid

Date Received: 08/05/17 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	240	J	1000	97	ug/Kg		08/08/17 11:23	08/10/17 21:55	1
Benzene	250	U	250	24	ug/Kg		08/08/17 11:23	08/10/17 21:55	1
Dichlorobromomethane	250	U	250	18	ug/Kg		08/08/17 11:23	08/10/17 21:55	1
Bromoform	250	U	250	23	ug/Kg		08/08/17 11:23	08/10/17 21:55	1
Bromomethane	250	U	250	28	ug/Kg		08/08/17 11:23	08/10/17 21:55	1
2-Butanone (MEK)	1000	U	1000	50	ug/Kg		08/08/17 11:23	08/10/17 21:55	1
Carbon disulfide	250	U	250	18	ug/Kg		08/08/17 11:23	08/10/17 21:55	1
Carbon tetrachloride	250	U	250	27	ug/Kg		08/08/17 11:23	08/10/17 21:55	1
Chlorobenzene	250	U	250	30	ug/Kg		08/08/17 11:23	08/10/17 21:55	1
Chloroethane	250	U	250	28	ug/Kg		08/08/17 11:23	08/10/17 21:55	1
Chloroform	250	U	250	24	ug/Kg		08/08/17 11:23	08/10/17 21:55	1
Chloromethane	250	U	250	18	ug/Kg		08/08/17 11:23	08/10/17 21:55	1
1,1-Dichloroethane	250	U	250	31	ug/Kg		08/08/17 11:23	08/10/17 21:55	1
1,2-Dichloroethane	250	U	250	30	ug/Kg		08/08/17 11:23	08/10/17 21:55	1
1,1-Dichloroethene	250	U	250	36	ug/Kg		08/08/17 11:23	08/10/17 21:55	1
1,2-Dichloropropane	250	U	250	30	ug/Kg		08/08/17 11:23	08/10/17 21:55	1
cis-1,3-Dichloropropene	250	U	250	23	ug/Kg		08/08/17 11:23	08/10/17 21:55	1
trans-1,3-Dichloropropene	250	U	250	15	ug/Kg		08/08/17 11:23	08/10/17 21:55	1
Ethylbenzene	250	U	250	35	ug/Kg		08/08/17 11:23	08/10/17 21:55	1
2-Hexanone	1000	U	1000	86	ug/Kg		08/08/17 11:23	08/10/17 21:55	1
Methylene Chloride	160	J B	250	65	ug/Kg		08/08/17 11:23	08/10/17 21:55	1
4-Methyl-2-pentanone (MIBK)	1000	U	1000	40	ug/Kg		08/08/17 11:23	08/10/17 21:55	1
Styrene	250	U	250	10	ug/Kg		08/08/17 11:23	08/10/17 21:55	1
1,1,2,2-Tetrachloroethane	250	U	250	24	ug/Kg		08/08/17 11:23	08/10/17 21:55	1
Tetrachloroethene	250	U	250	21	ug/Kg		08/08/17 11:23	08/10/17 21:55	1
Toluene	250	U	250	24	ug/Kg		08/08/17 11:23	08/10/17 21:55	1
Trichloroethene	250	U	250	37	ug/Kg		08/08/17 11:23	08/10/17 21:55	1
Vinyl chloride	250	U	250	17	ug/Kg		08/08/17 11:23	08/10/17 21:55	1
Xylenes, Total	500	U	500	28	ug/Kg		08/08/17 11:23	08/10/17 21:55	1
1,1,1-Trichloroethane	250	U	250	28	ug/Kg		08/08/17 11:23	08/10/17 21:55	1
1,1,2-Trichloroethane	250	U	250	23	ug/Kg		08/08/17 11:23	08/10/17 21:55	1
Cyclohexane	500	U	500	30	ug/Kg		08/08/17 11:23	08/10/17 21:55	1
1,2-Dibromo-3-Chloropropane	500	U	500	48	ug/Kg		08/08/17 11:23	08/10/17 21:55	1
Ethylene Dibromide	250	U	250	23	ug/Kg		08/08/17 11:23	08/10/17 21:55	1
Dichlorodifluoromethane	250	U	250	22	ug/Kg		08/08/17 11:23	08/10/17 21:55	1
cis-1,2-Dichloroethene	250	U	250	35	ug/Kg		08/08/17 11:23	08/10/17 21:55	1
trans-1,2-Dichloroethene	250	U	250	35	ug/Kg		08/08/17 11:23	08/10/17 21:55	1
Isopropylbenzene	250	U	250	34	ug/Kg		08/08/17 11:23	08/10/17 21:55	1
Methyl acetate	1300	U	1300	75	ug/Kg		08/08/17 11:23	08/10/17 21:55	1
Methyl tert-butyl ether	250	U	250	26	ug/Kg		08/08/17 11:23	08/10/17 21:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	250	U	250	23	ug/Kg		08/08/17 11:23	08/10/17 21:55	1
1,2,4-Trichlorobenzene	250	U	250	26	ug/Kg		08/08/17 11:23	08/10/17 21:55	1
1,2-Dichlorobenzene	250	U	250	18	ug/Kg		08/08/17 11:23	08/10/17 21:55	1
1,3-Dichlorobenzene	250	U	250	38	ug/Kg		08/08/17 11:23	08/10/17 21:55	1
1,4-Dichlorobenzene	250	U	250	27	ug/Kg		08/08/17 11:23	08/10/17 21:55	1
Trichlorofluoromethane	250	U	250	34	ug/Kg		08/08/17 11:23	08/10/17 21:55	1
Chlorodibromomethane	250	U	250	34	ug/Kg		08/08/17 11:23	08/10/17 21:55	1
Methylcyclohexane	500	U	500	37	ug/Kg		08/08/17 11:23	08/10/17 21:55	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: TB-12609-080417-SK

Lab Sample ID: 240-83321-21

Date Collected: 08/04/17 00:00

Matrix: Solid

Date Received: 08/05/17 09:30

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	130		64 - 144	08/08/17 11:23	08/10/17 21:55	1
4-Bromofluorobenzene (Surr)	133		58 - 142	08/08/17 11:23	08/10/17 21:55	1
Toluene-d8 (Surr)	112		61 - 137	08/08/17 11:23	08/10/17 21:55	1
Dibromofluoromethane (Surr)	116		31 - 155	08/08/17 11:23	08/10/17 21:55	1

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (64-144)	BFB (58-142)	TOL (61-137)	DBFM (31-155)
240-83321-1	S-12609-080217-SK-022	152 X	162 X	135	137
240-83321-2	S-12609-080217-SK-023	128	133	111	115
240-83321-3	S-12609-080217-SK-024	137	147 X	117	123
240-83321-4	S-12609-080217-SK-025	143	149 X	122	126
240-83321-5	S-12609-080217-SK-026	135	135	116	122
240-83321-6	S-12609-080217-SK-027	143	152 X	126	130
240-83321-7	S-12609-080217-SK-028	130	133	109	116
240-83321-8	S-12609-080217-SK-029	132	132	110	116
240-83321-9	S-12609-080217-SK-030	157 X	151 X	127	141
240-83321-10	S-12609-080317-SK-031	140	140	113	127
240-83321-11	S-12609-080317-SK-032	132	132	109	115
240-83321-12	S-12609-080317-SK-033	134	125	108	120
240-83321-13	S-12609-080317-SK-034	134	140	112	119
240-83321-14	S-12609-080317-SK-035	139	125	107	124
240-83321-15	S-12609-080317-SK-036	136	130	111	119
240-83321-16	S-12609-080317-SK-037	135	127	110	120
240-83321-17	S-12609-080317-SK-038	135	141	116	123
240-83321-18	S-12609-080317-SK-039	129	126	106	116
240-83321-19	S-12609-080317-SK-040	142	138	120	129
240-83321-19 MS	S-12609-080317-SK-040	165 X	177 X	145 X	160 X
240-83321-19 MSD	S-12609-080317-SK-040	126	138	111	124
240-83321-20	S-12609-080317-SK-041	128	122	105	114
240-83321-21	TB-12609-080417-SK	130	133	112	116
LCS 240-290343/2-A	Lab Control Sample	101	115	93	101
MB 240-290343/1-A	Method Blank	105	112	91	93

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX1 (14-128)	DCB1 (10-132)
240-83321-1	S-12609-080217-SK-022	68	67
240-83321-2	S-12609-080217-SK-023	90	106
240-83321-3	S-12609-080217-SK-024	85	124
240-83321-4	S-12609-080217-SK-025	85	121
240-83321-5	S-12609-080217-SK-026	69	97
240-83321-6	S-12609-080217-SK-027	69	78
240-83321-7	S-12609-080217-SK-028	71	79
240-83321-8	S-12609-080217-SK-029	70	84
240-83321-9	S-12609-080217-SK-030	77	88
240-83321-10	S-12609-080317-SK-031	113	120
240-83321-11	S-12609-080317-SK-032	110	116

TestAmerica Canton

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1 (14-128)	DCB1 (10-132)
240-83321-12	S-12609-080317-SK-033	119	137 X
240-83321-13	S-12609-080317-SK-034	78	97
240-83321-14	S-12609-080317-SK-035	81	104
240-83321-15	S-12609-080317-SK-036	79	94
LCS 240-290610/24-A	Lab Control Sample	77	82
MB 240-290610/23-A	Method Blank	70	81

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Method: 8082A - 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)
240-83321-16	S-12609-080317-SK-037	88	90
240-83321-17	S-12609-080317-SK-038	90	91
240-83321-18	S-12609-080317-SK-039	77	89
240-83321-19	S-12609-080317-SK-040	76	87
240-83321-19 MS	S-12609-080317-SK-040	89	100
240-83321-19 MSD	S-12609-080317-SK-040	91	98
240-83321-20	S-12609-080317-SK-041	73	86
LCS 240-290337/19-A	Lab Control Sample	60	79
MB 240-290337/18-A	Method Blank	78	88

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

QC Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

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

Lab Sample ID: MB 240-290343/1-A

Matrix: Solid

Analysis Batch: 290658

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 290343

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1000	U	1000	97	ug/Kg		08/08/17 10:37	08/10/17 13:42	1
Benzene	250	U	250	24	ug/Kg		08/08/17 10:37	08/10/17 13:42	1
Dichlorobromomethane	250	U	250	18	ug/Kg		08/08/17 10:37	08/10/17 13:42	1
Bromoform	250	U	250	23	ug/Kg		08/08/17 10:37	08/10/17 13:42	1
Bromomethane	250	U	250	28	ug/Kg		08/08/17 10:37	08/10/17 13:42	1
2-Butanone (MEK)	1000	U	1000	50	ug/Kg		08/08/17 10:37	08/10/17 13:42	1
Carbon disulfide	250	U	250	18	ug/Kg		08/08/17 10:37	08/10/17 13:42	1
Carbon tetrachloride	250	U	250	27	ug/Kg		08/08/17 10:37	08/10/17 13:42	1
Chlorobenzene	250	U	250	30	ug/Kg		08/08/17 10:37	08/10/17 13:42	1
Chloroethane	250	U	250	28	ug/Kg		08/08/17 10:37	08/10/17 13:42	1
Chloroform	250	U	250	24	ug/Kg		08/08/17 10:37	08/10/17 13:42	1
Chloromethane	250	U	250	18	ug/Kg		08/08/17 10:37	08/10/17 13:42	1
1,1-Dichloroethane	250	U	250	31	ug/Kg		08/08/17 10:37	08/10/17 13:42	1
1,2-Dichloroethane	250	U	250	30	ug/Kg		08/08/17 10:37	08/10/17 13:42	1
1,1-Dichloroethene	250	U	250	36	ug/Kg		08/08/17 10:37	08/10/17 13:42	1
1,2-Dichloropropane	250	U	250	30	ug/Kg		08/08/17 10:37	08/10/17 13:42	1
cis-1,3-Dichloropropene	250	U	250	23	ug/Kg		08/08/17 10:37	08/10/17 13:42	1
trans-1,3-Dichloropropene	250	U	250	15	ug/Kg		08/08/17 10:37	08/10/17 13:42	1
Ethylbenzene	250	U	250	35	ug/Kg		08/08/17 10:37	08/10/17 13:42	1
2-Hexanone	1000	U	1000	86	ug/Kg		08/08/17 10:37	08/10/17 13:42	1
Methylene Chloride	176	J	250	65	ug/Kg		08/08/17 10:37	08/10/17 13:42	1
4-Methyl-2-pentanone (MIBK)	1000	U	1000	40	ug/Kg		08/08/17 10:37	08/10/17 13:42	1
Styrene	250	U	250	10	ug/Kg		08/08/17 10:37	08/10/17 13:42	1
1,1,2,2-Tetrachloroethane	250	U	250	24	ug/Kg		08/08/17 10:37	08/10/17 13:42	1
Tetrachloroethene	250	U	250	21	ug/Kg		08/08/17 10:37	08/10/17 13:42	1
Toluene	250	U	250	24	ug/Kg		08/08/17 10:37	08/10/17 13:42	1
Trichloroethene	250	U	250	37	ug/Kg		08/08/17 10:37	08/10/17 13:42	1
Vinyl chloride	250	U	250	17	ug/Kg		08/08/17 10:37	08/10/17 13:42	1
Xylenes, Total	500	U	500	28	ug/Kg		08/08/17 10:37	08/10/17 13:42	1
1,1,1-Trichloroethane	250	U	250	28	ug/Kg		08/08/17 10:37	08/10/17 13:42	1
1,1,2-Trichloroethane	250	U	250	23	ug/Kg		08/08/17 10:37	08/10/17 13:42	1
Cyclohexane	500	U	500	30	ug/Kg		08/08/17 10:37	08/10/17 13:42	1
1,2-Dibromo-3-Chloropropane	500	U	500	48	ug/Kg		08/08/17 10:37	08/10/17 13:42	1
Ethylene Dibromide	250	U	250	23	ug/Kg		08/08/17 10:37	08/10/17 13:42	1
Dichlorodifluoromethane	250	U	250	22	ug/Kg		08/08/17 10:37	08/10/17 13:42	1
cis-1,2-Dichloroethene	250	U	250	35	ug/Kg		08/08/17 10:37	08/10/17 13:42	1
trans-1,2-Dichloroethene	250	U	250	35	ug/Kg		08/08/17 10:37	08/10/17 13:42	1
Isopropylbenzene	250	U	250	34	ug/Kg		08/08/17 10:37	08/10/17 13:42	1
Methyl acetate	1300	U	1300	75	ug/Kg		08/08/17 10:37	08/10/17 13:42	1
Methyl tert-butyl ether	250	U	250	26	ug/Kg		08/08/17 10:37	08/10/17 13:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	250	U	250	23	ug/Kg		08/08/17 10:37	08/10/17 13:42	1
1,2,4-Trichlorobenzene	250	U	250	26	ug/Kg		08/08/17 10:37	08/10/17 13:42	1
1,2-Dichlorobenzene	250	U	250	18	ug/Kg		08/08/17 10:37	08/10/17 13:42	1
1,3-Dichlorobenzene	250	U	250	38	ug/Kg		08/08/17 10:37	08/10/17 13:42	1
1,4-Dichlorobenzene	250	U	250	27	ug/Kg		08/08/17 10:37	08/10/17 13:42	1
Trichlorofluoromethane	250	U	250	34	ug/Kg		08/08/17 10:37	08/10/17 13:42	1
Chlorodibromomethane	250	U	250	34	ug/Kg		08/08/17 10:37	08/10/17 13:42	1
Methylcyclohexane	500	U	500	37	ug/Kg		08/08/17 10:37	08/10/17 13:42	1

TestAmerica Canton

QC Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		64 - 144	08/08/17 10:37	08/10/17 13:42	1
4-Bromofluorobenzene (Surr)	112		58 - 142	08/08/17 10:37	08/10/17 13:42	1
Toluene-d8 (Surr)	91		61 - 137	08/08/17 10:37	08/10/17 13:42	1
Dibromofluoromethane (Surr)	93		31 - 155	08/08/17 10:37	08/10/17 13:42	1

Lab Sample ID: LCS 240-290343/2-A

Matrix: Solid

Analysis Batch: 290658

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 290343

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	2000	1440		ug/Kg		72	24 - 125
Benzene	1000	1020		ug/Kg		102	77 - 120
Dichlorobromomethane	1000	938		ug/Kg		94	61 - 132
Bromoform	1000	782		ug/Kg		78	40 - 140
Bromomethane	1000	475		ug/Kg		48	10 - 153
2-Butanone (MEK)	2000	1600		ug/Kg		80	51 - 120
Carbon disulfide	1000	662		ug/Kg		66	17 - 163
Carbon tetrachloride	1000	963		ug/Kg		96	43 - 144
Chlorobenzene	1000	1020		ug/Kg		102	76 - 120
Chloroethane	1000	293		ug/Kg		29	10 - 166
Chloroform	1000	994		ug/Kg		99	74 - 120
Chloromethane	1000	958		ug/Kg		96	41 - 124
1,1-Dichloroethane	1000	1080		ug/Kg		108	72 - 120
1,2-Dichloroethane	1000	938		ug/Kg		94	71 - 120
1,1-Dichloroethene	1000	750		ug/Kg		75	58 - 130
1,2-Dichloropropane	1000	1120		ug/Kg		112	78 - 122
cis-1,3-Dichloropropene	1000	1040		ug/Kg		104	66 - 126
trans-1,3-Dichloropropene	1000	878		ug/Kg		88	55 - 121
Ethylbenzene	1000	1040		ug/Kg		104	76 - 120
2-Hexanone	2000	1720		ug/Kg		86	52 - 129
Methylene Chloride	1000	1290	*	ug/Kg		129	64 - 126
4-Methyl-2-pentanone (MIBK)	2000	1630		ug/Kg		81	65 - 131
Styrene	1000	909		ug/Kg		91	80 - 120
1,1,2,2-Tetrachloroethane	1000	1190		ug/Kg		119	78 - 120
Tetrachloroethene	1000	994		ug/Kg		99	68 - 122
Toluene	1000	1010		ug/Kg		101	74 - 120
Trichloroethene	1000	844		ug/Kg		84	73 - 123
Vinyl chloride	1000	919		ug/Kg		92	49 - 131
Xylenes, Total	2000	2150		ug/Kg		108	78 - 120
1,1,1-Trichloroethane	1000	1040		ug/Kg		104	60 - 136
1,1,2-Trichloroethane	1000	953		ug/Kg		95	80 - 120
Cyclohexane	1000	1140		ug/Kg		114	66 - 129
1,2-Dibromo-3-Chloropropane	1000	945		ug/Kg		94	40 - 133
Ethylene Dibromide	1000	918		ug/Kg		92	80 - 120
Dichlorodifluoromethane	1000	925		ug/Kg		93	15 - 127
cis-1,2-Dichloroethene	1000	976		ug/Kg		98	78 - 120
trans-1,2-Dichloroethene	1000	1020		ug/Kg		102	74 - 124
Isopropylbenzene	1000	1080		ug/Kg		108	76 - 124
Methyl acetate	2000	2190		ug/Kg		110	63 - 126
Methyl tert-butyl ether	1000	1040		ug/Kg		104	68 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane	1000	789		ug/Kg		79	64 - 125
1,2,4-Trichlorobenzene	1000	968		ug/Kg		97	60 - 124
1,2-Dichlorobenzene	1000	1020		ug/Kg		102	75 - 120

TestAmerica Canton

QC Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

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

Lab Sample ID: LCS 240-290343/2-A

Matrix: Solid

Analysis Batch: 290658

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 290343

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichlorobenzene	1000	1020		ug/Kg		102	72 - 120
1,4-Dichlorobenzene	1000	1000		ug/Kg		100	71 - 120
Trichlorofluoromethane	1000	807		ug/Kg		81	28 - 152
Chlorodibromomethane	1000	819		ug/Kg		82	46 - 125
Methylcyclohexane	1000	1060		ug/Kg		106	71 - 126
m-Xylene & p-Xylene	1000	1120		ug/Kg		112	78 - 120
o-Xylene	1000	1030		ug/Kg		103	77 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		64 - 144
4-Bromofluorobenzene (Surr)	115		58 - 142
Toluene-d8 (Surr)	93		61 - 137
Dibromofluoromethane (Surr)	101		31 - 155

Lab Sample ID: 240-83321-19 MS

Matrix: Solid

Analysis Batch: 290658

Client Sample ID: S-12609-080317-SK-040

Prep Type: Total/NA

Prep Batch: 290354

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	1600	U F1	2900	4630	F1	ug/Kg	☼	160	15 - 127
Benzene	410	U F1	1450	2280	F1	ug/Kg	☼	158	33 - 127
Dichlorobromomethane	410	U F1	1450	2310	F1	ug/Kg	☼	160	22 - 127
Bromoform	410	U F1	1450	1900	F1	ug/Kg	☼	131	10 - 120
Bromomethane	410	U F2	1450	977		ug/Kg	☼	67	13 - 138
2-Butanone (MEK)	1600	U F1	2900	3840	F1	ug/Kg	☼	133	29 - 127
Carbon disulfide	410	U F2	1450	1350		ug/Kg	☼	93	15 - 131
Carbon tetrachloride	410	U F1	1450	2050	F1	ug/Kg	☼	141	17 - 127
Chlorobenzene	410	U F1	1450	2280	F1	ug/Kg	☼	158	15 - 122
Chloroethane	410	U	1450	608		ug/Kg	☼	42	15 - 148
Chloroform	410	U F1	1450	2270	F1	ug/Kg	☼	157	41 - 121
Chloromethane	410	U F1 F2	1450	2200	F1	ug/Kg	☼	152	33 - 122
1,1-Dichloroethane	410	U F1	1450	2340	F1	ug/Kg	☼	161	41 - 122
1,2-Dichloroethane	410	U F1	1450	2180	F1	ug/Kg	☼	151	35 - 122
1,1-Dichloroethene	410	U F2	1450	1460		ug/Kg	☼	101	30 - 139
1,2-Dichloropropane	410	U F1	1450	2670	F1	ug/Kg	☼	184	38 - 130
cis-1,3-Dichloropropene	410	U F1	1450	2470	F1	ug/Kg	☼	171	13 - 127
trans-1,3-Dichloropropene	410	U F1	1450	2090	F1	ug/Kg	☼	144	11 - 120
Ethylbenzene	410	U F1	1450	2250	F1	ug/Kg	☼	155	18 - 126
2-Hexanone	1600	U F1 F2	2900	4430	F1	ug/Kg	☼	153	21 - 136
Methylene Chloride	270	J F1 B	1450	2610	F1	ug/Kg	☼	162	34 - 134
4-Methyl-2-pentanone (MIBK)	1600	U F2	2900	4350		ug/Kg	☼	150	16 - 164
Styrene	410	U F1	1450	2100	F1	ug/Kg	☼	145	10 - 128
1,1,2,2-Tetrachloroethane	410	U F1	1450	3040	F1	ug/Kg	☼	210	16 - 157
Tetrachloroethene	410	U F1	1450	2050	F1	ug/Kg	☼	142	17 - 126
Toluene	410	U F1	1450	2220	F1	ug/Kg	☼	153	29 - 127
Trichloroethene	410	U	1450	1840		ug/Kg	☼	127	10 - 160
Vinyl chloride	410	U F2	1450	1950		ug/Kg	☼	134	31 - 134
Xylenes, Total	820	U F1	2900	4670	F1	ug/Kg	☼	161	10 - 137

TestAmerica Canton

QC Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

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

Lab Sample ID: 240-83321-19 MS

Matrix: Solid

Analysis Batch: 290658

Client Sample ID: S-12609-080317-SK-040

Prep Type: Total/NA

Prep Batch: 290354

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
1,1,1-Trichloroethane	410	U F1	1450	2230	F1	ug/Kg	☼	154	33 - 130
1,1,2-Trichloroethane	410	U F1	1450	2360	F1	ug/Kg	☼	163	19 - 137
Cyclohexane	820	U F1 F2	1450	2080	F1	ug/Kg	☼	144	22 - 135
1,2-Dibromo-3-Chloropropane	820	U F1	1450	2390	F1	ug/Kg	☼	165	10 - 128
Ethylene Dibromide	410	U F1	1450	2280	F1	ug/Kg	☼	157	25 - 137
Dichlorodifluoromethane	410	U F2	1450	1260		ug/Kg	☼	87	10 - 126
cis-1,2-Dichloroethene	410	U F1	1450	2190	F1	ug/Kg	☼	151	46 - 120
trans-1,2-Dichloroethene	410	U F1	1450	2100	F1	ug/Kg	☼	145	32 - 134
Isopropylbenzene	410	U F1	1450	2400	F1	ug/Kg	☼	166	10 - 128
Methyl acetate	2000	U F1	2900	5540	F1	ug/Kg	☼	191	14 - 151
Methyl tert-butyl ether	410	U F1	1450	2620	F1	ug/Kg	☼	181	49 - 134
1,1,2-Trichloro-1,2,2-trifluoroethane	410	U	1450	1290		ug/Kg	☼	89	26 - 130
1,2,4-Trichlorobenzene	410	U F1	1450	1830	F1	ug/Kg	☼	126	10 - 120
1,2-Dichlorobenzene	410	U F1	1450	2230	F1	ug/Kg	☼	154	10 - 120
1,3-Dichlorobenzene	410	U F1	1450	2140	F1	ug/Kg	☼	148	10 - 120
1,4-Dichlorobenzene	410	U F1	1450	2070	F1	ug/Kg	☼	143	10 - 120
Trichlorofluoromethane	410	U F2	1450	1590		ug/Kg	☼	110	24 - 137
Chlorodibromomethane	410	U F1	1450	1970	F1	ug/Kg	☼	136	19 - 120
Methylcyclohexane	820	U F1 F2	1450	2010	F1	ug/Kg	☼	139	13 - 134
m-Xylene & p-Xylene	410	U F1	1450	2310	F1	ug/Kg	☼	159	10 - 136
o-Xylene	410	U F1	1450	2360	F1	ug/Kg	☼	163	17 - 128

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	165	X	64 - 144
4-Bromofluorobenzene (Surr)	177	X	58 - 142
Toluene-d8 (Surr)	145	X	61 - 137
Dibromofluoromethane (Surr)	160	X	31 - 155

Lab Sample ID: 240-83321-19 MSD

Matrix: Solid

Analysis Batch: 290658

Client Sample ID: S-12609-080317-SK-040

Prep Type: Total/NA

Prep Batch: 290354

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acetone	1600	U F1	2560	3520	F1	ug/Kg	☼	138	15 - 127	27	40
Benzene	410	U F1	1280	1570		ug/Kg	☼	123	33 - 127	37	40
Dichlorobromomethane	410	U F1	1280	1590		ug/Kg	☼	124	22 - 127	37	40
Bromoform	410	U F1	1280	1360		ug/Kg	☼	106	10 - 120	33	40
Bromomethane	410	U F2	1280	534	F2	ug/Kg	☼	42	13 - 138	59	40
2-Butanone (MEK)	1600	U F1	2560	2710		ug/Kg	☼	106	29 - 127	35	40
Carbon disulfide	410	U F2	1280	825	F2	ug/Kg	☼	64	15 - 131	48	40
Carbon tetrachloride	410	U F1	1280	1390		ug/Kg	☼	109	17 - 127	38	40
Chlorobenzene	410	U F1	1280	1610	F1	ug/Kg	☼	126	15 - 122	35	40
Chloroethane	410	U	1280	438	J	ug/Kg	☼	34	15 - 148	33	40
Chloroform	410	U F1	1280	1610	F1	ug/Kg	☼	125	41 - 121	34	40
Chloromethane	410	U F1 F2	1280	1010	F2	ug/Kg	☼	79	33 - 122	74	40
1,1-Dichloroethane	410	U F1	1280	1630	F1	ug/Kg	☼	128	41 - 122	35	40
1,2-Dichloroethane	410	U F1	1280	1510		ug/Kg	☼	118	35 - 122	36	40

TestAmerica Canton

QC Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

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

Lab Sample ID: 240-83321-19 MSD

Matrix: Solid

Analysis Batch: 290658

Client Sample ID: S-12609-080317-SK-040

Prep Type: Total/NA

Prep Batch: 290354

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene	410	U F2	1280	936	F2	ug/Kg	✱	73	30 - 139	44	40
1,2-Dichloropropane	410	U F1	1280	1860	F1	ug/Kg	✱	145	38 - 130	36	40
cis-1,3-Dichloropropene	410	U F1	1280	1710	F1	ug/Kg	✱	133	13 - 127	37	40
trans-1,3-Dichloropropene	410	U F1	1280	1450		ug/Kg	✱	113	11 - 120	36	40
Ethylbenzene	410	U F1	1280	1530		ug/Kg	✱	120	18 - 126	38	40
2-Hexanone	1600	U F1 F2	2560	2850	F2	ug/Kg	✱	111	21 - 136	43	40
Methylene Chloride	270	J F1 B	1280	1880		ug/Kg	✱	126	34 - 134	32	40
4-Methyl-2-pentanone (MIBK)	1600	U F2	2560	2820	F2	ug/Kg	✱	110	16 - 164	43	40
Styrene	410	U F1	1280	1430		ug/Kg	✱	111	10 - 128	38	40
1,1,2,2-Tetrachloroethane	410	U F1	1280	2070	F1	ug/Kg	✱	161	16 - 157	38	40
Tetrachloroethene	410	U F1	1280	1400		ug/Kg	✱	109	17 - 126	38	40
Toluene	410	U F1	1280	1520		ug/Kg	✱	119	29 - 127	37	40
Trichloroethene	410	U	1280	1270		ug/Kg	✱	99	10 - 160	37	40
Vinyl chloride	410	U F2	1280	966	F2	ug/Kg	✱	75	31 - 134	67	40
Xylenes, Total	820	U F1	2560	3210		ug/Kg	✱	125	10 - 137	37	40
1,1,1-Trichloroethane	410	U F1	1280	1530		ug/Kg	✱	120	33 - 130	37	40
1,1,2-Trichloroethane	410	U F1	1280	1600		ug/Kg	✱	125	19 - 137	38	40
Cyclohexane	820	U F1 F2	1280	1330	F2	ug/Kg	✱	104	22 - 135	44	40
1,2-Dibromo-3-Chloropropane	820	U F1	1280	1650	F1	ug/Kg	✱	129	10 - 128	36	40
Ethylene Dibromide	410	U F1	1280	1520		ug/Kg	✱	119	25 - 137	40	40
Dichlorodifluoromethane	410	U F2	1280	379	J F2	ug/Kg	✱	30	10 - 126	107	40
cis-1,2-Dichloroethene	410	U F1	1280	1540	F1	ug/Kg	✱	121	46 - 120	35	40
trans-1,2-Dichloroethene	410	U F1	1280	1460		ug/Kg	✱	114	32 - 134	36	40
Isopropylbenzene	410	U F1	1280	1680	F1	ug/Kg	✱	131	10 - 128	35	40
Methyl acetate	2000	U F1	2560	3800		ug/Kg	✱	149	14 - 151	37	40
Methyl tert-butyl ether	410	U F1	1280	1770	F1	ug/Kg	✱	138	49 - 134	39	40
1,1,2-Trichloro-1,2,2-trifluoroethane	410	U	1280	861		ug/Kg	✱	67	26 - 130	40	40
1,2,4-Trichlorobenzene	410	U F1	1280	1370		ug/Kg	✱	107	10 - 120	29	40
1,2-Dichlorobenzene	410	U F1	1280	1610	F1	ug/Kg	✱	126	10 - 120	32	40
1,3-Dichlorobenzene	410	U F1	1280	1570	F1	ug/Kg	✱	123	10 - 120	31	40
1,4-Dichlorobenzene	410	U F1	1280	1500		ug/Kg	✱	117	10 - 120	32	40
Trichlorofluoromethane	410	U F2	1280	942	F2	ug/Kg	✱	74	24 - 137	51	40
Chlorodibromomethane	410	U F1	1280	1360		ug/Kg	✱	106	19 - 120	37	40
Methylcyclohexane	820	U F1 F2	1280	1330	F2	ug/Kg	✱	104	13 - 134	41	40
m-Xylene & p-Xylene	410	U F1	1280	1590		ug/Kg	✱	124	10 - 136	37	40
o-Xylene	410	U F1	1280	1620		ug/Kg	✱	126	17 - 128	38	40

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	126		64 - 144
4-Bromofluorobenzene (Surr)	138		58 - 142
Toluene-d8 (Surr)	111		61 - 137
Dibromofluoromethane (Surr)	124		31 - 155

TestAmerica Canton

QC Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

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

Lab Sample ID: MB 240-290337/18-A

Matrix: Solid

Analysis Batch: 290574

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 290337

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	50	U	50	24	ug/Kg		08/08/17 10:18	08/10/17 13:04	1
Aroclor-1221	50	U	50	23	ug/Kg		08/08/17 10:18	08/10/17 13:04	1
Aroclor-1232	50	U	50	16	ug/Kg		08/08/17 10:18	08/10/17 13:04	1
Aroclor-1242	50	U	50	20	ug/Kg		08/08/17 10:18	08/10/17 13:04	1
Aroclor-1248	50	U	50	17	ug/Kg		08/08/17 10:18	08/10/17 13:04	1
Aroclor-1254	50	U	50	14	ug/Kg		08/08/17 10:18	08/10/17 13:04	1
Aroclor-1260	50	U	50	18	ug/Kg		08/08/17 10:18	08/10/17 13:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	78		14 - 128	08/08/17 10:18	08/10/17 13:04	1
DCB Decachlorobiphenyl	88		10 - 132	08/08/17 10:18	08/10/17 13:04	1

Lab Sample ID: LCS 240-290337/19-A

Matrix: Solid

Analysis Batch: 290574

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 290337

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Aroclor-1016	1000	566		ug/Kg		57	47 - 120
Aroclor-1260	1000	663		ug/Kg		66	46 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	60		14 - 128
DCB Decachlorobiphenyl	79		10 - 132

Lab Sample ID: 240-83321-19 MS

Matrix: Solid

Analysis Batch: 290574

Client Sample ID: S-12609-080317-SK-040

Prep Type: Total/NA

Prep Batch: 290337

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Aroclor-1016	69	U	1400	1060		ug/Kg	☼	75	31 - 120
Aroclor-1260	69	U	1400	1170		ug/Kg	☼	83	21 - 122

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	89		14 - 128
DCB Decachlorobiphenyl	100		10 - 132

Lab Sample ID: 240-83321-19 MSD

Matrix: Solid

Analysis Batch: 290574

Client Sample ID: S-12609-080317-SK-040

Prep Type: Total/NA

Prep Batch: 290337

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Aroclor-1016	69	U	1370	1100		ug/Kg	☼	80	31 - 120	4	30
Aroclor-1260	69	U	1370	1200		ug/Kg	☼	87	21 - 122	3	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene	91		14 - 128
DCB Decachlorobiphenyl	98		10 - 132

TestAmerica Canton

QC Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Lab Sample ID: MB 240-290610/23-A

Matrix: Solid

Analysis Batch: 290913

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 290610

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	50	U	50	24	ug/Kg		08/10/17 08:19	08/12/17 12:20	1
Aroclor-1221	50	U	50	23	ug/Kg		08/10/17 08:19	08/12/17 12:20	1
Aroclor-1232	50	U	50	16	ug/Kg		08/10/17 08:19	08/12/17 12:20	1
Aroclor-1242	50	U	50	20	ug/Kg		08/10/17 08:19	08/12/17 12:20	1
Aroclor-1248	50	U	50	17	ug/Kg		08/10/17 08:19	08/12/17 12:20	1
Aroclor-1254	50	U	50	14	ug/Kg		08/10/17 08:19	08/12/17 12:20	1
Aroclor-1260	50	U	50	18	ug/Kg		08/10/17 08:19	08/12/17 12:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	70		14 - 128	08/10/17 08:19	08/12/17 12:20	1
DCB Decachlorobiphenyl	81		10 - 132	08/10/17 08:19	08/12/17 12:20	1

Lab Sample ID: LCS 240-290610/24-A

Matrix: Solid

Analysis Batch: 290913

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 290610

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	1000	621		ug/Kg		62	47 - 120
Aroclor-1260	1000	700		ug/Kg		70	46 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	77		14 - 128
DCB Decachlorobiphenyl	82		10 - 132

Method: Moisture - Percent Moisture

Lab Sample ID: 240-83321-9 DU

Matrix: Solid

Analysis Batch: 290152

Client Sample ID: S-12609-080217-SK-030

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	77.1		77.8		%		1	20
Percent Moisture	22.9		22.2		%		3	20

Lab Sample ID: 240-83321-17 DU

Matrix: Solid

Analysis Batch: 290152

Client Sample ID: S-12609-080317-SK-038

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	82.1		81.8		%		0.4	20
Percent Moisture	17.9		18.2		%		2	20

Lab Sample ID: 240-83321-19 DU

Matrix: Solid

Analysis Batch: 290152

Client Sample ID: S-12609-080317-SK-040

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	71.9		73.3		%		2	20
Percent Moisture	28.1		26.7		%		5	20

TestAmerica Canton

QC Association Summary

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

GC/MS VOA

Prep Batch: 290343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-83321-1	S-12609-080217-SK-022	Total/NA	Solid	5035	
240-83321-2	S-12609-080217-SK-023	Total/NA	Solid	5035	
240-83321-3	S-12609-080217-SK-024	Total/NA	Solid	5035	
240-83321-4	S-12609-080217-SK-025	Total/NA	Solid	5035	
240-83321-5	S-12609-080217-SK-026	Total/NA	Solid	5035	
240-83321-6	S-12609-080217-SK-027	Total/NA	Solid	5035	
240-83321-7	S-12609-080217-SK-028	Total/NA	Solid	5035	
240-83321-8	S-12609-080217-SK-029	Total/NA	Solid	5035	
240-83321-9	S-12609-080217-SK-030	Total/NA	Solid	5035	
240-83321-10	S-12609-080317-SK-031	Total/NA	Solid	5035	
240-83321-11	S-12609-080317-SK-032	Total/NA	Solid	5035	
240-83321-12	S-12609-080317-SK-033	Total/NA	Solid	5035	
240-83321-13	S-12609-080317-SK-034	Total/NA	Solid	5035	
240-83321-14	S-12609-080317-SK-035	Total/NA	Solid	5035	
240-83321-15	S-12609-080317-SK-036	Total/NA	Solid	5035	
240-83321-16	S-12609-080317-SK-037	Total/NA	Solid	5035	
MB 240-290343/1-A	Method Blank	Total/NA	Solid	5035	
LCS 240-290343/2-A	Lab Control Sample	Total/NA	Solid	5035	

Prep Batch: 290354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-83321-17	S-12609-080317-SK-038	Total/NA	Solid	5035	
240-83321-18	S-12609-080317-SK-039	Total/NA	Solid	5035	
240-83321-19	S-12609-080317-SK-040	Total/NA	Solid	5035	
240-83321-20	S-12609-080317-SK-041	Total/NA	Solid	5035	
240-83321-21	TB-12609-080417-SK	Total/NA	Solid	5035	
240-83321-19 MS	S-12609-080317-SK-040	Total/NA	Solid	5035	
240-83321-19 MSD	S-12609-080317-SK-040	Total/NA	Solid	5035	

Analysis Batch: 290658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-83321-1	S-12609-080217-SK-022	Total/NA	Solid	8260B	290343
240-83321-2	S-12609-080217-SK-023	Total/NA	Solid	8260B	290343
240-83321-3	S-12609-080217-SK-024	Total/NA	Solid	8260B	290343
240-83321-4	S-12609-080217-SK-025	Total/NA	Solid	8260B	290343
240-83321-5	S-12609-080217-SK-026	Total/NA	Solid	8260B	290343
240-83321-6	S-12609-080217-SK-027	Total/NA	Solid	8260B	290343
240-83321-7	S-12609-080217-SK-028	Total/NA	Solid	8260B	290343
240-83321-8	S-12609-080217-SK-029	Total/NA	Solid	8260B	290343
240-83321-9	S-12609-080217-SK-030	Total/NA	Solid	8260B	290343
240-83321-10	S-12609-080317-SK-031	Total/NA	Solid	8260B	290343
240-83321-11	S-12609-080317-SK-032	Total/NA	Solid	8260B	290343
240-83321-12	S-12609-080317-SK-033	Total/NA	Solid	8260B	290343
240-83321-13	S-12609-080317-SK-034	Total/NA	Solid	8260B	290343
240-83321-14	S-12609-080317-SK-035	Total/NA	Solid	8260B	290343
240-83321-15	S-12609-080317-SK-036	Total/NA	Solid	8260B	290343
240-83321-16	S-12609-080317-SK-037	Total/NA	Solid	8260B	290343
240-83321-17	S-12609-080317-SK-038	Total/NA	Solid	8260B	290354
240-83321-18	S-12609-080317-SK-039	Total/NA	Solid	8260B	290354
240-83321-19	S-12609-080317-SK-040	Total/NA	Solid	8260B	290354
240-83321-20	S-12609-080317-SK-041	Total/NA	Solid	8260B	290354

TestAmerica Canton

QC Association Summary

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

GC/MS VOA (Continued)

Analysis Batch: 290658 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-83321-21	TB-12609-080417-SK	Total/NA	Solid	8260B	290354
MB 240-290343/1-A	Method Blank	Total/NA	Solid	8260B	290343
LCS 240-290343/2-A	Lab Control Sample	Total/NA	Solid	8260B	290343
240-83321-19 MS	S-12609-080317-SK-040	Total/NA	Solid	8260B	290354
240-83321-19 MSD	S-12609-080317-SK-040	Total/NA	Solid	8260B	290354

GC Semi VOA

Prep Batch: 290311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-83321-1	S-12609-080217-SK-022	Total/NA	Solid	3540C	
240-83321-2	S-12609-080217-SK-023	Total/NA	Solid	3540C	
240-83321-3	S-12609-080217-SK-024	Total/NA	Solid	3540C	
240-83321-4	S-12609-080217-SK-025	Total/NA	Solid	3540C	
240-83321-5	S-12609-080217-SK-026	Total/NA	Solid	3540C	
240-83321-6	S-12609-080217-SK-027	Total/NA	Solid	3540C	
240-83321-7	S-12609-080217-SK-028	Total/NA	Solid	3540C	
240-83321-8	S-12609-080217-SK-029	Total/NA	Solid	3540C	
240-83321-10	S-12609-080317-SK-031	Total/NA	Solid	3540C	
240-83321-11	S-12609-080317-SK-032	Total/NA	Solid	3540C	
240-83321-12	S-12609-080317-SK-033	Total/NA	Solid	3540C	
240-83321-13	S-12609-080317-SK-034	Total/NA	Solid	3540C	
240-83321-14	S-12609-080317-SK-035	Total/NA	Solid	3540C	
240-83321-15	S-12609-080317-SK-036	Total/NA	Solid	3540C	

Prep Batch: 290337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-83321-16	S-12609-080317-SK-037	Total/NA	Solid	3540C	
240-83321-17	S-12609-080317-SK-038	Total/NA	Solid	3540C	
240-83321-18	S-12609-080317-SK-039	Total/NA	Solid	3540C	
240-83321-19	S-12609-080317-SK-040	Total/NA	Solid	3540C	
240-83321-20	S-12609-080317-SK-041	Total/NA	Solid	3540C	
MB 240-290337/18-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-290337/19-A	Lab Control Sample	Total/NA	Solid	3540C	
240-83321-19 MS	S-12609-080317-SK-040	Total/NA	Solid	3540C	
240-83321-19 MSD	S-12609-080317-SK-040	Total/NA	Solid	3540C	

Analysis Batch: 290574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-83321-16	S-12609-080317-SK-037	Total/NA	Solid	8082A	290337
240-83321-17	S-12609-080317-SK-038	Total/NA	Solid	8082A	290337
240-83321-18	S-12609-080317-SK-039	Total/NA	Solid	8082A	290337
240-83321-19	S-12609-080317-SK-040	Total/NA	Solid	8082A	290337
240-83321-20	S-12609-080317-SK-041	Total/NA	Solid	8082A	290337
MB 240-290337/18-A	Method Blank	Total/NA	Solid	8082A	290337
LCS 240-290337/19-A	Lab Control Sample	Total/NA	Solid	8082A	290337
240-83321-19 MS	S-12609-080317-SK-040	Total/NA	Solid	8082A	290337
240-83321-19 MSD	S-12609-080317-SK-040	Total/NA	Solid	8082A	290337

TestAmerica Canton

QC Association Summary

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

GC Semi VOA (Continued)

Prep Batch: 290610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-83321-9	S-12609-080217-SK-030	Total/NA	Solid	3540C	
MB 240-290610/23-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-290610/24-A	Lab Control Sample	Total/NA	Solid	3540C	

Analysis Batch: 290678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-83321-1	S-12609-080217-SK-022	Total/NA	Solid	8082A	290311
240-83321-2	S-12609-080217-SK-023	Total/NA	Solid	8082A	290311
240-83321-3	S-12609-080217-SK-024	Total/NA	Solid	8082A	290311
240-83321-4	S-12609-080217-SK-025	Total/NA	Solid	8082A	290311
240-83321-5	S-12609-080217-SK-026	Total/NA	Solid	8082A	290311
240-83321-6	S-12609-080217-SK-027	Total/NA	Solid	8082A	290311
240-83321-7	S-12609-080217-SK-028	Total/NA	Solid	8082A	290311
240-83321-8	S-12609-080217-SK-029	Total/NA	Solid	8082A	290311
240-83321-10	S-12609-080317-SK-031	Total/NA	Solid	8082A	290311
240-83321-11	S-12609-080317-SK-032	Total/NA	Solid	8082A	290311
240-83321-12	S-12609-080317-SK-033	Total/NA	Solid	8082A	290311
240-83321-13	S-12609-080317-SK-034	Total/NA	Solid	8082A	290311
240-83321-14	S-12609-080317-SK-035	Total/NA	Solid	8082A	290311
240-83321-15	S-12609-080317-SK-036	Total/NA	Solid	8082A	290311

Analysis Batch: 290913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-83321-9	S-12609-080217-SK-030	Total/NA	Solid	8082A	290610
MB 240-290610/23-A	Method Blank	Total/NA	Solid	8082A	290610
LCS 240-290610/24-A	Lab Control Sample	Total/NA	Solid	8082A	290610

General Chemistry

Analysis Batch: 290152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-83321-1	S-12609-080217-SK-022	Total/NA	Solid	Moisture	
240-83321-2	S-12609-080217-SK-023	Total/NA	Solid	Moisture	
240-83321-3	S-12609-080217-SK-024	Total/NA	Solid	Moisture	
240-83321-4	S-12609-080217-SK-025	Total/NA	Solid	Moisture	
240-83321-5	S-12609-080217-SK-026	Total/NA	Solid	Moisture	
240-83321-6	S-12609-080217-SK-027	Total/NA	Solid	Moisture	
240-83321-7	S-12609-080217-SK-028	Total/NA	Solid	Moisture	
240-83321-8	S-12609-080217-SK-029	Total/NA	Solid	Moisture	
240-83321-9	S-12609-080217-SK-030	Total/NA	Solid	Moisture	
240-83321-10	S-12609-080317-SK-031	Total/NA	Solid	Moisture	
240-83321-11	S-12609-080317-SK-032	Total/NA	Solid	Moisture	
240-83321-12	S-12609-080317-SK-033	Total/NA	Solid	Moisture	
240-83321-13	S-12609-080317-SK-034	Total/NA	Solid	Moisture	
240-83321-14	S-12609-080317-SK-035	Total/NA	Solid	Moisture	
240-83321-15	S-12609-080317-SK-036	Total/NA	Solid	Moisture	
240-83321-16	S-12609-080317-SK-037	Total/NA	Solid	Moisture	
240-83321-17	S-12609-080317-SK-038	Total/NA	Solid	Moisture	
240-83321-18	S-12609-080317-SK-039	Total/NA	Solid	Moisture	
240-83321-19	S-12609-080317-SK-040	Total/NA	Solid	Moisture	

TestAmerica Canton

QC Association Summary

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

General Chemistry (Continued)

Analysis Batch: 290152 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-83321-20	S-12609-080317-SK-041	Total/NA	Solid	Moisture	
240-83321-9 DU	S-12609-080217-SK-030	Total/NA	Solid	Moisture	
240-83321-17 DU	S-12609-080317-SK-038	Total/NA	Solid	Moisture	
240-83321-19 DU	S-12609-080317-SK-040	Total/NA	Solid	Moisture	

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080217-SK-022

Date Collected: 08/02/17 09:50

Date Received: 08/05/17 09:30

Lab Sample ID: 240-83321-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	290152	08/07/17 09:32	PW	TAL CAN

Client Sample ID: S-12609-080217-SK-022

Date Collected: 08/02/17 09:50

Date Received: 08/05/17 09:30

Lab Sample ID: 240-83321-1

Matrix: Solid

Percent Solids: 80.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			290343	08/08/17 10:37	LAM	TAL CAN
Total/NA	Analysis	8260B		1	290658	08/10/17 14:04	SAM	TAL CAN
Total/NA	Prep	3540C			290311	08/08/17 08:59	KEH	TAL CAN
Total/NA	Analysis	8082A		1	290678	08/10/17 17:54	LSH	TAL CAN

Client Sample ID: S-12609-080217-SK-023

Date Collected: 08/02/17 09:55

Date Received: 08/05/17 09:30

Lab Sample ID: 240-83321-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	290152	08/07/17 09:32	PW	TAL CAN

Client Sample ID: S-12609-080217-SK-023

Date Collected: 08/02/17 09:55

Date Received: 08/05/17 09:30

Lab Sample ID: 240-83321-2

Matrix: Solid

Percent Solids: 73.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			290343	08/08/17 10:37	LAM	TAL CAN
Total/NA	Analysis	8260B		1	290658	08/10/17 14:25	SAM	TAL CAN
Total/NA	Prep	3540C			290311	08/08/17 08:59	KEH	TAL CAN
Total/NA	Analysis	8082A		1	290678	08/10/17 18:14	LSH	TAL CAN

Client Sample ID: S-12609-080217-SK-024

Date Collected: 08/02/17 12:15

Date Received: 08/05/17 09:30

Lab Sample ID: 240-83321-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	290152	08/07/17 09:32	PW	TAL CAN

Client Sample ID: S-12609-080217-SK-024

Date Collected: 08/02/17 12:15

Date Received: 08/05/17 09:30

Lab Sample ID: 240-83321-3

Matrix: Solid

Percent Solids: 87.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			290343	08/08/17 10:37	LAM	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080217-SK-024

Lab Sample ID: 240-83321-3

Date Collected: 08/02/17 12:15

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 87.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	290658	08/10/17 14:47	SAM	TAL CAN
Total/NA	Prep	3540C			290311	08/08/17 08:59	KEH	TAL CAN
Total/NA	Analysis	8082A		1	290678	08/10/17 18:33	LSH	TAL CAN

Client Sample ID: S-12609-080217-SK-025

Lab Sample ID: 240-83321-4

Date Collected: 08/02/17 12:20

Matrix: Solid

Date Received: 08/05/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	290152	08/07/17 09:32	PW	TAL CAN

Client Sample ID: S-12609-080217-SK-025

Lab Sample ID: 240-83321-4

Date Collected: 08/02/17 12:20

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			290343	08/08/17 10:37	LAM	TAL CAN
Total/NA	Analysis	8260B		1	290658	08/10/17 15:08	SAM	TAL CAN
Total/NA	Prep	3540C			290311	08/08/17 08:59	KEH	TAL CAN
Total/NA	Analysis	8082A		1	290678	08/10/17 18:52	LSH	TAL CAN

Client Sample ID: S-12609-080217-SK-026

Lab Sample ID: 240-83321-5

Date Collected: 08/02/17 12:25

Matrix: Solid

Date Received: 08/05/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	290152	08/07/17 09:32	PW	TAL CAN

Client Sample ID: S-12609-080217-SK-026

Lab Sample ID: 240-83321-5

Date Collected: 08/02/17 12:25

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 78.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			290343	08/08/17 10:37	LAM	TAL CAN
Total/NA	Analysis	8260B		1	290658	08/10/17 15:30	SAM	TAL CAN
Total/NA	Prep	3540C			290311	08/08/17 08:59	KEH	TAL CAN
Total/NA	Analysis	8082A		1	290678	08/10/17 19:11	LSH	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080217-SK-027

Lab Sample ID: 240-83321-6

Date Collected: 08/02/17 14:50

Matrix: Solid

Date Received: 08/05/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	290152	08/07/17 09:32	PW	TAL CAN

Client Sample ID: S-12609-080217-SK-027

Lab Sample ID: 240-83321-6

Date Collected: 08/02/17 14:50

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 74.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			290343	08/08/17 10:37	LAM	TAL CAN
Total/NA	Analysis	8260B		1	290658	08/10/17 15:51	SAM	TAL CAN
Total/NA	Prep	3540C			290311	08/08/17 08:59	KEH	TAL CAN
Total/NA	Analysis	8082A		1	290678	08/10/17 19:30	LSH	TAL CAN

Client Sample ID: S-12609-080217-SK-028

Lab Sample ID: 240-83321-7

Date Collected: 08/02/17 14:55

Matrix: Solid

Date Received: 08/05/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	290152	08/07/17 09:32	PW	TAL CAN

Client Sample ID: S-12609-080217-SK-028

Lab Sample ID: 240-83321-7

Date Collected: 08/02/17 14:55

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			290343	08/08/17 10:37	LAM	TAL CAN
Total/NA	Analysis	8260B		1	290658	08/10/17 16:12	SAM	TAL CAN
Total/NA	Prep	3540C			290311	08/08/17 08:59	KEH	TAL CAN
Total/NA	Analysis	8082A		1	290678	08/10/17 19:49	LSH	TAL CAN

Client Sample ID: S-12609-080217-SK-029

Lab Sample ID: 240-83321-8

Date Collected: 08/02/17 16:00

Matrix: Solid

Date Received: 08/05/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	290152	08/07/17 09:32	PW	TAL CAN

Client Sample ID: S-12609-080217-SK-029

Lab Sample ID: 240-83321-8

Date Collected: 08/02/17 16:00

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 81.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			290343	08/08/17 10:37	LAM	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080217-SK-029

Lab Sample ID: 240-83321-8

Date Collected: 08/02/17 16:00

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 81.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	290658	08/10/17 16:34	SAM	TAL CAN
Total/NA	Prep	3540C			290311	08/08/17 08:59	KEH	TAL CAN
Total/NA	Analysis	8082A		1	290678	08/10/17 20:09	LSH	TAL CAN

Client Sample ID: S-12609-080217-SK-030

Lab Sample ID: 240-83321-9

Date Collected: 08/02/17 16:05

Matrix: Solid

Date Received: 08/05/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	290152	08/07/17 09:32	PW	TAL CAN

Client Sample ID: S-12609-080217-SK-030

Lab Sample ID: 240-83321-9

Date Collected: 08/02/17 16:05

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 77.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			290343	08/08/17 10:37	LAM	TAL CAN
Total/NA	Analysis	8260B		1	290658	08/10/17 16:55	SAM	TAL CAN
Total/NA	Prep	3540C			290610	08/10/17 08:19	KEH	TAL CAN
Total/NA	Analysis	8082A		1	290913	08/12/17 14:31	KMG	TAL CAN

Client Sample ID: S-12609-080317-SK-031

Lab Sample ID: 240-83321-10

Date Collected: 08/03/17 09:55

Matrix: Solid

Date Received: 08/05/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	290152	08/07/17 09:32	PW	TAL CAN

Client Sample ID: S-12609-080317-SK-031

Lab Sample ID: 240-83321-10

Date Collected: 08/03/17 09:55

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 78.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			290343	08/08/17 10:37	LAM	TAL CAN
Total/NA	Analysis	8260B		1	290658	08/10/17 17:17	SAM	TAL CAN
Total/NA	Prep	3540C			290311	08/08/17 08:59	KEH	TAL CAN
Total/NA	Analysis	8082A		20	290678	08/10/17 20:28	LSH	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080317-SK-032

Lab Sample ID: 240-83321-11

Date Collected: 08/03/17 10:35

Matrix: Solid

Date Received: 08/05/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	290152	08/07/17 09:32	PW	TAL CAN

Client Sample ID: S-12609-080317-SK-032

Lab Sample ID: 240-83321-11

Date Collected: 08/03/17 10:35

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			290343	08/08/17 10:37	LAM	TAL CAN
Total/NA	Analysis	8260B		1	290658	08/10/17 17:38	SAM	TAL CAN
Total/NA	Prep	3540C			290311	08/08/17 08:59	KEH	TAL CAN
Total/NA	Analysis	8082A		1	290678	08/10/17 20:47	LSH	TAL CAN

Client Sample ID: S-12609-080317-SK-033

Lab Sample ID: 240-83321-12

Date Collected: 08/03/17 10:45

Matrix: Solid

Date Received: 08/05/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	290152	08/07/17 09:32	PW	TAL CAN

Client Sample ID: S-12609-080317-SK-033

Lab Sample ID: 240-83321-12

Date Collected: 08/03/17 10:45

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 76.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			290343	08/08/17 10:37	LAM	TAL CAN
Total/NA	Analysis	8260B		1	290658	08/10/17 18:00	SAM	TAL CAN
Total/NA	Prep	3540C			290311	08/08/17 08:59	KEH	TAL CAN
Total/NA	Analysis	8082A		20	290678	08/10/17 21:07	LSH	TAL CAN

Client Sample ID: S-12609-080317-SK-034

Lab Sample ID: 240-83321-13

Date Collected: 08/03/17 12:00

Matrix: Solid

Date Received: 08/05/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	290152	08/07/17 09:32	PW	TAL CAN

Client Sample ID: S-12609-080317-SK-034

Lab Sample ID: 240-83321-13

Date Collected: 08/03/17 12:00

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 85.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			290343	08/08/17 10:37	LAM	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080317-SK-034

Lab Sample ID: 240-83321-13

Date Collected: 08/03/17 12:00

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 85.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	290658	08/10/17 18:21	SAM	TAL CAN
Total/NA	Prep	3540C			290311	08/08/17 08:59	KEH	TAL CAN
Total/NA	Analysis	8082A		1	290678	08/10/17 21:27	LSH	TAL CAN

Client Sample ID: S-12609-080317-SK-035

Lab Sample ID: 240-83321-14

Date Collected: 08/03/17 12:05

Matrix: Solid

Date Received: 08/05/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	290152	08/07/17 09:32	PW	TAL CAN

Client Sample ID: S-12609-080317-SK-035

Lab Sample ID: 240-83321-14

Date Collected: 08/03/17 12:05

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 76.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			290343	08/08/17 10:37	LAM	TAL CAN
Total/NA	Analysis	8260B		1	290658	08/10/17 18:42	SAM	TAL CAN
Total/NA	Prep	3540C			290311	08/08/17 08:59	KEH	TAL CAN
Total/NA	Analysis	8082A		1	290678	08/10/17 21:45	LSH	TAL CAN

Client Sample ID: S-12609-080317-SK-036

Lab Sample ID: 240-83321-15

Date Collected: 08/03/17 14:45

Matrix: Solid

Date Received: 08/05/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	290152	08/07/17 09:32	PW	TAL CAN

Client Sample ID: S-12609-080317-SK-036

Lab Sample ID: 240-83321-15

Date Collected: 08/03/17 14:45

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 78.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			290343	08/08/17 10:37	LAM	TAL CAN
Total/NA	Analysis	8260B		1	290658	08/10/17 19:04	SAM	TAL CAN
Total/NA	Prep	3540C			290311	08/08/17 08:59	KEH	TAL CAN
Total/NA	Analysis	8082A		1	290678	08/10/17 22:04	LSH	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080317-SK-037

Lab Sample ID: 240-83321-16

Date Collected: 08/03/17 14:50

Matrix: Solid

Date Received: 08/05/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	290152	08/07/17 09:32	PW	TAL CAN

Client Sample ID: S-12609-080317-SK-037

Lab Sample ID: 240-83321-16

Date Collected: 08/03/17 14:50

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 78.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			290343	08/08/17 10:37	LAM	TAL CAN
Total/NA	Analysis	8260B		1	290658	08/10/17 19:25	SAM	TAL CAN
Total/NA	Prep	3540C			290337	08/08/17 10:18	KEH	TAL CAN
Total/NA	Analysis	8082A		1	290574	08/10/17 08:25	CSC	TAL CAN

Client Sample ID: S-12609-080317-SK-038

Lab Sample ID: 240-83321-17

Date Collected: 08/03/17 16:10

Matrix: Solid

Date Received: 08/05/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	290152	08/07/17 09:32	PW	TAL CAN

Client Sample ID: S-12609-080317-SK-038

Lab Sample ID: 240-83321-17

Date Collected: 08/03/17 16:10

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			290354	08/08/17 11:23	LAM	TAL CAN
Total/NA	Analysis	8260B		1	290658	08/10/17 19:46	SAM	TAL CAN
Total/NA	Prep	3540C			290337	08/08/17 10:18	KEH	TAL CAN
Total/NA	Analysis	8082A		1	290574	08/10/17 08:43	CSC	TAL CAN

Client Sample ID: S-12609-080317-SK-039

Lab Sample ID: 240-83321-18

Date Collected: 08/03/17 16:15

Matrix: Solid

Date Received: 08/05/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	290152	08/07/17 09:32	PW	TAL CAN

Client Sample ID: S-12609-080317-SK-039

Lab Sample ID: 240-83321-18

Date Collected: 08/03/17 16:15

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			290354	08/08/17 11:23	LAM	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: S-12609-080317-SK-039

Lab Sample ID: 240-83321-18

Date Collected: 08/03/17 16:15

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	290658	08/10/17 20:08	SAM	TAL CAN
Total/NA	Prep	3540C			290337	08/08/17 10:18	KEH	TAL CAN
Total/NA	Analysis	8082A		1	290574	08/10/17 09:02	CSC	TAL CAN

Client Sample ID: S-12609-080317-SK-040

Lab Sample ID: 240-83321-19

Date Collected: 08/03/17 16:50

Matrix: Solid

Date Received: 08/05/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	290152	08/07/17 09:41	PW	TAL CAN

Client Sample ID: S-12609-080317-SK-040

Lab Sample ID: 240-83321-19

Date Collected: 08/03/17 16:50

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 71.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			290354	08/08/17 11:23	LAM	TAL CAN
Total/NA	Analysis	8260B		1	290658	08/10/17 20:29	SAM	TAL CAN
Total/NA	Prep	3540C			290337	08/08/17 10:18	KEH	TAL CAN
Total/NA	Analysis	8082A		1	290574	08/10/17 09:20	CSC	TAL CAN

Client Sample ID: S-12609-080317-SK-041

Lab Sample ID: 240-83321-20

Date Collected: 08/03/17 16:55

Matrix: Solid

Date Received: 08/05/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	290152	08/07/17 09:32	PW	TAL CAN

Client Sample ID: S-12609-080317-SK-041

Lab Sample ID: 240-83321-20

Date Collected: 08/03/17 16:55

Matrix: Solid

Date Received: 08/05/17 09:30

Percent Solids: 71.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			290354	08/08/17 11:23	LAM	TAL CAN
Total/NA	Analysis	8260B		1	290658	08/10/17 21:33	SAM	TAL CAN
Total/NA	Prep	3540C			290337	08/08/17 10:18	KEH	TAL CAN
Total/NA	Analysis	8082A		1	290574	08/10/17 10:16	CSC	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Client Sample ID: TB-12609-080417-SK

Lab Sample ID: 240-83321-21

Date Collected: 08/04/17 00:00

Matrix: Solid

Date Received: 08/05/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			290354	08/08/17 11:23	LAM	TAL CAN
Total/NA	Analysis	8260B		1	290658	08/10/17 21:55	SAM	TAL CAN

Laboratory References:

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

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83321-1

Laboratory: TestAmerica Canton

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

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2927	02-23-18
Connecticut	State Program	1	PH-0590	12-31-17 *
Florida	NELAP	4	E87225	06-30-18
Illinois	NELAP	5	200004	07-31-18
Kansas	NELAP	7	E-10336	01-31-18 *
Kentucky (UST)	State Program	4	58	02-23-18
Kentucky (WW)	State Program	4	98016	12-31-17 *
Minnesota	NELAP	5	039-999-348	12-31-17 *
Minnesota (Petrofund)	State Program	1	3506	07-31-17 *
Nevada	State Program	9	OH-000482008A	07-31-18
New Jersey	NELAP	2	OH001	06-30-18
New York	NELAP	2	10975	03-31-18
Ohio VAP	State Program	5	CL0024	09-14-17 *
Oregon	NELAP	10	4062	02-23-18
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	12-31-17 *
Wisconsin	State Program	5	999518190	08-31-17 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Canton

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

COC No:

Company Name: GHD Address: 26850 Haggerty Rd. City/State/Zip: Farmington Hills, MI Phone: (734) 453-5123 Fax: chem.det@ghd.com Project Name: GMP - Toledo Site: Toledo, O.H. PO # 5506-701-2017-002		Client Contact Project Manager: A. Lavine Tel/Fax: (419) 503-0784 Analysis Turnaround Time ☐ CALENDAR DAYS ☒ WORKING DAYS TAT if different from Below ☐ 2 weeks ☒ Standard ☐ 1 week ☐ 2 days ☐ 1 day		Project Manager: A. Lavine Tel/Fax: (419) 503-0784 Analysis Turnaround Time ☐ CALENDAR DAYS ☒ WORKING DAYS TAT if different from Below ☐ 2 weeks ☒ Standard ☐ 1 week ☐ 2 days ☐ 1 day		Site Contact: S. Kippen Date: 8-4-17 Carrier: FedEx Lab Contact: A. Bown		COC No: 1 of 2 COCs Sampler: Scott Kippen For Lab Use Only: Walk-in Client: Lab Sampling: Job / SDG No.:	
Sample Identification S-12609-080217-SK-022 -023 -024 -025 -026 -027 -028 -029 -030 S-12609-080317-SK-031 -032 -033		Sample Date 8-2-17 9:50 9:55 12:15 12:20 12:25 14:50 14:55 16:00 16:05 8-3-17 10:35 8-3-17 10:45		Sample Type G G G G G G G G G G G G G G		Matrix Soil Soil Soil Soil Soil Soil Soil Soil Soil Soil Soil Soil Soil Soil		# of Cont. 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
Sample Specific Notes: 240-83321 Chain of Custody		Performs MS / MSD (Y / N) X X X X X X X X X X X X X X		Filtered Sample (Y / N) X X X X X X X X X X X X X X		Sample Specific Notes: VCS PCBs % Moisture			
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									
Special Instructions/QC Requirements & Comments:									
Custody Seal No.: GHD 8/4/17 Date/Time: 12:30 Company: GHD		Cooler Temp. (°C): Obs'd: 10C Cor'd: 10C Date/Time: 08/05/17 930 Company: TAC		Therm ID No.: Date/Time: 08/05/17 930 Company: TAC		Return to Client ☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months			

T.A.# 24005708

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

Client Contact Company Name: GHD Address: 26350 Haggerty Rd City/State/Zip: Farmington Hills, MI Phone: (734) 453-5123 49331 Fax: (734) 453-5123 Project Name: GMPT-Toledo Site: Toledo, O.H. P.O.# 550W: 12906-Tol-2017-002		Project Manager: A. Lavine Tel/Fax: (414) 503-0784 Analysis Turnaround Time ☐ CALENDAR DAYS ☒ WORKING DAYS TAT if different from Below ☒ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Site Contact: S. Kippa Lab Contact: A. Byn Date: 8-4-17 Carrier: FedEx		COC No: 2 of 2 COCs Sampler: S. Kippa For Lab Use Only: Walk-in Client: Lab Sampling: Job / SDG No.: Sample Specific Notes:	
Sample Identification S-12609-080317-SK-034 035 036 037 038 039 040 041 TB-12609-080417-SK		Sample Date 8-3-17 8-3-17 8-3-17 8-3-17 8-3-17 8-3-17 8-4-17		Sample Time 12:00 12:05 14:45 14:50 16:10 16:15 16:50 16:55		Sample Type G G G G G G G G	
Matrix Soil Soil Soil Soil Soil Soil Soil Soil		Filtered Sample (Y/N) Y Y Y Y Y Y Y Y		Perform MS/MSD (Y/N) Y Y Y Y Y Y Y Y		Sample Specific Notes: MS/MSD	
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							
Special Instructions/QC Requirements & Comments: END OF SOIL Sampling Event							
Custody Seal No.: Relinquished by: [Signature] Relinquished by: [Signature]		Company: GHD Company:		Date/Time: 08/04/17 Date/Time:		Cooler Temp. (°C): Obs'd: _____ Cor'd: _____	
Relinquished by: Relinquished by:		Company: TAC Company:		Date/Time: 08/05/17 9:50 Date/Time:		Therm ID No.: _____	

TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 83321

Client <u>GMPT</u>		Site Name <u>GMPT</u>		Cooler unpacked by: <u>DSD</u>	
Cooler Received on <u>08/05/17</u>		Opened on <u>08/05/17</u>			
FedEx: 1 st Grd <u>Exp</u> UPS FAS Clipper		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: <u>Bubble Wrap</u>		Foam <u>Plastic Bag</u>		None Other _____	
COOLANT: <u>Wet Ice</u>		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. _____ °C			
IR GUN #36 (CF +0°C) Observed Cooler Temp. <u>3.6</u> °C		Corrected Cooler Temp. <u>3.6</u> °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 <u>NA</u>		pH Strip Lot# <u>HC697954</u>	
12. Were VOAs on the COC?		Yes No			
13. Were air bubbles >6 mm in any VOA vials? Larger than this.		Yes No NA			
14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # <u>Covered</u>		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 _____					

16. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

17. 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)

18. 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: 240-83323-1

Client Project/Site: 12609-T01-2017, Racer Toledo

For:

GHD Services Inc.

9033 Meridian Way

West Chester, Ohio 45069

Attn: Ms. Angela Bown



Authorized for release by:

8/15/2017 8:29:46 AM

Denise Heckler, Project Manager II

(330)966-9477

denise.heckler@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



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.

Table of Contents

Cover Page 1

Table of Contents 2

Definitions/Glossary 3

Case Narrative 4

Method Summary 5

Sample Summary 6

Detection Summary 7

Client Sample Results 8

Surrogate Summary 16

QC Sample Results 17

QC Association Summary 20

Lab Chronicle 21

Certification Summary 22

Chain of Custody 23



Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83323-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
*	LCS or LCSD 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.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83323-1

Job ID: 240-83323-1

Laboratory: TestAmerica Canton

Narrative

Job Narrative 240-83323-1

Comments

No additional comments.

Receipt

The samples were received on 8/5/2017 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.6° C.

GC/MS VOA

Method(s) 8260B: The laboratory control sample (LCS) for 290805 recovered outside control limits for multiple analytes. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: There is no MS/MSD in batch 290805 due to the parent sample being canceled.

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

VOA Prep

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

Method Summary

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83323-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	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

Sample Summary

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83323-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-83323-1	GW-12609-080317-SK-001	Water	08/03/17 14:05	08/05/17 09:30
240-83323-2	GW-12609-080317-SK-002	Water	08/03/17 14:50	08/05/17 09:30
240-83323-3	GW-12609-080417-SK-003	Water	08/04/17 09:30	08/05/17 09:30
240-83323-4	TB-12609-080417-SK	Water	08/04/17 00:00	08/05/17 09:30

Detection Summary

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83323-1

Client Sample ID: GW-12609-080317-SK-001

Lab Sample ID: 240-83323-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	7.5	J	10	1.8	ug/L	1			8260B	Total/NA
Toluene	0.28	J	1.0	0.23	ug/L	1			8260B	Total/NA

Client Sample ID: GW-12609-080317-SK-002

Lab Sample ID: 240-83323-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	1.8	J	10	1.8	ug/L	1			8260B	Total/NA

Client Sample ID: GW-12609-080417-SK-003

Lab Sample ID: 240-83323-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	2.9	J	10	1.8	ug/L	1			8260B	Total/NA
1,2-Dichloropropane	0.36	J	1.0	0.30	ug/L	1			8260B	Total/NA
Trichloroethene	1.4		1.0	0.33	ug/L	1			8260B	Total/NA
cis-1,2-Dichloroethene	13		1.0	0.30	ug/L	1			8260B	Total/NA

Client Sample ID: TB-12609-080417-SK

Lab Sample ID: 240-83323-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	2.1	J	10	1.8	ug/L	1			8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83323-1

Client Sample ID: GW-12609-080317-SK-001

Lab Sample ID: 240-83323-1

Date Collected: 08/03/17 14:05

Matrix: Water

Date Received: 08/05/17 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.5	J	10	1.8	ug/L			08/11/17 17:43	1
Benzene	1.0	U	1.0	0.28	ug/L			08/11/17 17:43	1
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			08/11/17 17:43	1
Bromoform	1.0	U	1.0	0.43	ug/L			08/11/17 17:43	1
Bromomethane	1.0	U	1.0	0.42	ug/L			08/11/17 17:43	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			08/11/17 17:43	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			08/11/17 17:43	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			08/11/17 17:43	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			08/11/17 17:43	1
Chloroethane	1.0	U	1.0	0.41	ug/L			08/11/17 17:43	1
Chloroform	1.0	U	1.0	0.31	ug/L			08/11/17 17:43	1
Chloromethane	1.0	U	1.0	0.43	ug/L			08/11/17 17:43	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			08/11/17 17:43	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			08/11/17 17:43	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			08/11/17 17:43	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			08/11/17 17:43	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			08/11/17 17:43	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			08/11/17 17:43	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			08/11/17 17:43	1
2-Hexanone	10	U	10	1.2	ug/L			08/11/17 17:43	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			08/11/17 17:43	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			08/11/17 17:43	1
Styrene	1.0	U	1.0	0.23	ug/L			08/11/17 17:43	1
1,1,2,2-Tetrachloroethane	1.0	U *	1.0	0.32	ug/L			08/11/17 17:43	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			08/11/17 17:43	1
Toluene	0.28	J	1.0	0.23	ug/L			08/11/17 17:43	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			08/11/17 17:43	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/11/17 17:43	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			08/11/17 17:43	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			08/11/17 17:43	1
1,1,2-Trichloroethane	1.0	U *	1.0	0.34	ug/L			08/11/17 17:43	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			08/11/17 17:43	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			08/11/17 17:43	1
Ethylene Dibromide	1.0	U	1.0	0.23	ug/L			08/11/17 17:43	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			08/11/17 17:43	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			08/11/17 17:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			08/11/17 17:43	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			08/11/17 17:43	1
Methyl acetate	10	U	10	1.4	ug/L			08/11/17 17:43	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			08/11/17 17:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			08/11/17 17:43	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			08/11/17 17:43	1
1,2-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			08/11/17 17:43	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			08/11/17 17:43	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			08/11/17 17:43	1
Trichlorofluoromethane	1.0	U	1.0	0.50	ug/L			08/11/17 17:43	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			08/11/17 17:43	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			08/11/17 17:43	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83323-1

Client Sample ID: GW-12609-080317-SK-001

Lab Sample ID: 240-83323-1

Date Collected: 08/03/17 14:05

Matrix: Water

Date Received: 08/05/17 09:30

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	112		61 - 138		08/11/17 17:43	1
4-Bromofluorobenzene (Surr)	81		69 - 120		08/11/17 17:43	1
Toluene-d8 (Surr)	117		73 - 120		08/11/17 17:43	1
Dibromofluoromethane (Surr)	108		69 - 124		08/11/17 17:43	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83323-1

Client Sample ID: GW-12609-080317-SK-002

Lab Sample ID: 240-83323-2

Date Collected: 08/03/17 14:50

Matrix: Water

Date Received: 08/05/17 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.8	J	10	1.8	ug/L			08/11/17 18:06	1
Benzene	1.0	U	1.0	0.28	ug/L			08/11/17 18:06	1
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			08/11/17 18:06	1
Bromoform	1.0	U	1.0	0.43	ug/L			08/11/17 18:06	1
Bromomethane	1.0	U	1.0	0.42	ug/L			08/11/17 18:06	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			08/11/17 18:06	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			08/11/17 18:06	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			08/11/17 18:06	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			08/11/17 18:06	1
Chloroethane	1.0	U	1.0	0.41	ug/L			08/11/17 18:06	1
Chloroform	1.0	U	1.0	0.31	ug/L			08/11/17 18:06	1
Chloromethane	1.0	U	1.0	0.43	ug/L			08/11/17 18:06	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			08/11/17 18:06	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			08/11/17 18:06	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			08/11/17 18:06	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			08/11/17 18:06	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			08/11/17 18:06	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			08/11/17 18:06	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			08/11/17 18:06	1
2-Hexanone	10	U	10	1.2	ug/L			08/11/17 18:06	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			08/11/17 18:06	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			08/11/17 18:06	1
Styrene	1.0	U	1.0	0.23	ug/L			08/11/17 18:06	1
1,1,2,2-Tetrachloroethane	1.0	U *	1.0	0.32	ug/L			08/11/17 18:06	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			08/11/17 18:06	1
Toluene	1.0	U	1.0	0.23	ug/L			08/11/17 18:06	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			08/11/17 18:06	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/11/17 18:06	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			08/11/17 18:06	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			08/11/17 18:06	1
1,1,2-Trichloroethane	1.0	U *	1.0	0.34	ug/L			08/11/17 18:06	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			08/11/17 18:06	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			08/11/17 18:06	1
Ethylene Dibromide	1.0	U	1.0	0.23	ug/L			08/11/17 18:06	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			08/11/17 18:06	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			08/11/17 18:06	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			08/11/17 18:06	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			08/11/17 18:06	1
Methyl acetate	10	U	10	1.4	ug/L			08/11/17 18:06	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			08/11/17 18:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			08/11/17 18:06	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			08/11/17 18:06	1
1,2-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			08/11/17 18:06	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			08/11/17 18:06	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			08/11/17 18:06	1
Trichlorofluoromethane	1.0	U	1.0	0.50	ug/L			08/11/17 18:06	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			08/11/17 18:06	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			08/11/17 18:06	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83323-1

Client Sample ID: GW-12609-080317-SK-002

Lab Sample ID: 240-83323-2

Date Collected: 08/03/17 14:50

Matrix: Water

Date Received: 08/05/17 09:30

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	106		61 - 138		08/11/17 18:06	1
4-Bromofluorobenzene (Surr)	77		69 - 120		08/11/17 18:06	1
Toluene-d8 (Surr)	110		73 - 120		08/11/17 18:06	1
Dibromofluoromethane (Surr)	103		69 - 124		08/11/17 18:06	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83323-1

Client Sample ID: GW-12609-080417-SK-003

Lab Sample ID: 240-83323-3

Date Collected: 08/04/17 09:30

Matrix: Water

Date Received: 08/05/17 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.9	J	10	1.8	ug/L			08/11/17 18:28	1
Benzene	1.0	U	1.0	0.28	ug/L			08/11/17 18:28	1
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			08/11/17 18:28	1
Bromoform	1.0	U	1.0	0.43	ug/L			08/11/17 18:28	1
Bromomethane	1.0	U	1.0	0.42	ug/L			08/11/17 18:28	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			08/11/17 18:28	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			08/11/17 18:28	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			08/11/17 18:28	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			08/11/17 18:28	1
Chloroethane	1.0	U	1.0	0.41	ug/L			08/11/17 18:28	1
Chloroform	1.0	U	1.0	0.31	ug/L			08/11/17 18:28	1
Chloromethane	1.0	U	1.0	0.43	ug/L			08/11/17 18:28	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			08/11/17 18:28	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			08/11/17 18:28	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			08/11/17 18:28	1
1,2-Dichloropropane	0.36	J	1.0	0.30	ug/L			08/11/17 18:28	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			08/11/17 18:28	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			08/11/17 18:28	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			08/11/17 18:28	1
2-Hexanone	10	U	10	1.2	ug/L			08/11/17 18:28	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			08/11/17 18:28	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			08/11/17 18:28	1
Styrene	1.0	U	1.0	0.23	ug/L			08/11/17 18:28	1
1,1,2,2-Tetrachloroethane	1.0	U *	1.0	0.32	ug/L			08/11/17 18:28	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			08/11/17 18:28	1
Toluene	1.0	U	1.0	0.23	ug/L			08/11/17 18:28	1
Trichloroethene	1.4		1.0	0.33	ug/L			08/11/17 18:28	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/11/17 18:28	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			08/11/17 18:28	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			08/11/17 18:28	1
1,1,2-Trichloroethane	1.0	U *	1.0	0.34	ug/L			08/11/17 18:28	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			08/11/17 18:28	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			08/11/17 18:28	1
Ethylene Dibromide	1.0	U	1.0	0.23	ug/L			08/11/17 18:28	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			08/11/17 18:28	1
cis-1,2-Dichloroethene	13		1.0	0.30	ug/L			08/11/17 18:28	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			08/11/17 18:28	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			08/11/17 18:28	1
Methyl acetate	10	U	10	1.4	ug/L			08/11/17 18:28	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			08/11/17 18:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			08/11/17 18:28	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			08/11/17 18:28	1
1,2-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			08/11/17 18:28	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			08/11/17 18:28	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			08/11/17 18:28	1
Trichlorofluoromethane	1.0	U	1.0	0.50	ug/L			08/11/17 18:28	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			08/11/17 18:28	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			08/11/17 18:28	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83323-1

Client Sample ID: GW-12609-080417-SK-003

Lab Sample ID: 240-83323-3

Date Collected: 08/04/17 09:30

Matrix: Water

Date Received: 08/05/17 09:30

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	111		61 - 138		08/11/17 18:28	1
4-Bromofluorobenzene (Surr)	82		69 - 120		08/11/17 18:28	1
Toluene-d8 (Surr)	118		73 - 120		08/11/17 18:28	1
Dibromofluoromethane (Surr)	109		69 - 124		08/11/17 18:28	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83323-1

Client Sample ID: TB-12609-080417-SK

Lab Sample ID: 240-83323-4

Date Collected: 08/04/17 00:00

Matrix: Water

Date Received: 08/05/17 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.1	J	10	1.8	ug/L			08/11/17 18:51	1
Benzene	1.0	U	1.0	0.28	ug/L			08/11/17 18:51	1
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			08/11/17 18:51	1
Bromoform	1.0	U	1.0	0.43	ug/L			08/11/17 18:51	1
Bromomethane	1.0	U	1.0	0.42	ug/L			08/11/17 18:51	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			08/11/17 18:51	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			08/11/17 18:51	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			08/11/17 18:51	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			08/11/17 18:51	1
Chloroethane	1.0	U	1.0	0.41	ug/L			08/11/17 18:51	1
Chloroform	1.0	U	1.0	0.31	ug/L			08/11/17 18:51	1
Chloromethane	1.0	U	1.0	0.43	ug/L			08/11/17 18:51	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			08/11/17 18:51	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			08/11/17 18:51	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			08/11/17 18:51	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			08/11/17 18:51	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			08/11/17 18:51	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			08/11/17 18:51	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			08/11/17 18:51	1
2-Hexanone	10	U	10	1.2	ug/L			08/11/17 18:51	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			08/11/17 18:51	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			08/11/17 18:51	1
Styrene	1.0	U	1.0	0.23	ug/L			08/11/17 18:51	1
1,1,2,2-Tetrachloroethane	1.0	U *	1.0	0.32	ug/L			08/11/17 18:51	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			08/11/17 18:51	1
Toluene	1.0	U	1.0	0.23	ug/L			08/11/17 18:51	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			08/11/17 18:51	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/11/17 18:51	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			08/11/17 18:51	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			08/11/17 18:51	1
1,1,2-Trichloroethane	1.0	U *	1.0	0.34	ug/L			08/11/17 18:51	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			08/11/17 18:51	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			08/11/17 18:51	1
Ethylene Dibromide	1.0	U	1.0	0.23	ug/L			08/11/17 18:51	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			08/11/17 18:51	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			08/11/17 18:51	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			08/11/17 18:51	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			08/11/17 18:51	1
Methyl acetate	10	U	10	1.4	ug/L			08/11/17 18:51	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			08/11/17 18:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			08/11/17 18:51	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			08/11/17 18:51	1
1,2-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			08/11/17 18:51	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			08/11/17 18:51	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			08/11/17 18:51	1
Trichlorofluoromethane	1.0	U	1.0	0.50	ug/L			08/11/17 18:51	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			08/11/17 18:51	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			08/11/17 18:51	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83323-1

Client Sample ID: TB-12609-080417-SK

Lab Sample ID: 240-83323-4

Date Collected: 08/04/17 00:00

Matrix: Water

Date Received: 08/05/17 09:30

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	113		61 - 138		08/11/17 18:51	1
4-Bromofluorobenzene (Surr)	82		69 - 120		08/11/17 18:51	1
Toluene-d8 (Surr)	116		73 - 120		08/11/17 18:51	1
Dibromofluoromethane (Surr)	108		69 - 124		08/11/17 18:51	1

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83323-1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	12DCE (61-138)	BFB (69-120)	TOL (73-120)	DBFM (69-124)
240-83323-1	GW-12609-080317-SK-001	112	81	117	108
240-83323-2	GW-12609-080317-SK-002	106	77	110	103
240-83323-3	GW-12609-080417-SK-003	111	82	118	109
240-83323-4	TB-12609-080417-SK	113	82	116	108
LCS 240-290805/4	Lab Control Sample	110	89	117	104
MB 240-290805/6	Method Blank	105	77	107	100

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

QC Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83323-1

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

Lab Sample ID: MB 240-290805/6

Matrix: Water

Analysis Batch: 290805

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			08/11/17 11:29	1
Benzene	1.0	U	1.0	0.28	ug/L			08/11/17 11:29	1
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			08/11/17 11:29	1
Bromoform	1.0	U	1.0	0.43	ug/L			08/11/17 11:29	1
Bromomethane	1.0	U	1.0	0.42	ug/L			08/11/17 11:29	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			08/11/17 11:29	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			08/11/17 11:29	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			08/11/17 11:29	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			08/11/17 11:29	1
Chloroethane	1.0	U	1.0	0.41	ug/L			08/11/17 11:29	1
Chloroform	1.0	U	1.0	0.31	ug/L			08/11/17 11:29	1
Chloromethane	1.0	U	1.0	0.43	ug/L			08/11/17 11:29	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			08/11/17 11:29	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			08/11/17 11:29	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			08/11/17 11:29	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			08/11/17 11:29	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			08/11/17 11:29	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			08/11/17 11:29	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			08/11/17 11:29	1
2-Hexanone	10	U	10	1.2	ug/L			08/11/17 11:29	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			08/11/17 11:29	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			08/11/17 11:29	1
Styrene	1.0	U	1.0	0.23	ug/L			08/11/17 11:29	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			08/11/17 11:29	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			08/11/17 11:29	1
Toluene	1.0	U	1.0	0.23	ug/L			08/11/17 11:29	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			08/11/17 11:29	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/11/17 11:29	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			08/11/17 11:29	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			08/11/17 11:29	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			08/11/17 11:29	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			08/11/17 11:29	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			08/11/17 11:29	1
Ethylene Dibromide	1.0	U	1.0	0.23	ug/L			08/11/17 11:29	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			08/11/17 11:29	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			08/11/17 11:29	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			08/11/17 11:29	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			08/11/17 11:29	1
Methyl acetate	10	U	10	1.4	ug/L			08/11/17 11:29	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			08/11/17 11:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			08/11/17 11:29	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			08/11/17 11:29	1
1,2-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			08/11/17 11:29	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			08/11/17 11:29	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			08/11/17 11:29	1
Trichlorofluoromethane	1.0	U	1.0	0.50	ug/L			08/11/17 11:29	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			08/11/17 11:29	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			08/11/17 11:29	1

TestAmerica Canton

QC Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83323-1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		61 - 138		08/11/17 11:29	1
4-Bromofluorobenzene (Surr)	77		69 - 120		08/11/17 11:29	1
Toluene-d8 (Surr)	107		73 - 120		08/11/17 11:29	1
Dibromofluoromethane (Surr)	100		69 - 124		08/11/17 11:29	1

Lab Sample ID: LCS 240-290805/4

Matrix: Water

Analysis Batch: 290805

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	15.6		ug/L		78	35 - 131
Benzene	10.0	10.9		ug/L		109	79 - 120
Dichlorobromomethane	10.0	10.6		ug/L		106	79 - 125
Bromoform	10.0	7.90		ug/L		79	55 - 145
Bromomethane	10.0	12.7		ug/L		127	17 - 158
2-Butanone (MEK)	20.0	18.2		ug/L		91	43 - 149
Carbon disulfide	10.0	13.9		ug/L		139	49 - 141
Carbon tetrachloride	10.0	10.5		ug/L		105	55 - 171
Chlorobenzene	10.0	10.4		ug/L		104	80 - 120
Chloroethane	10.0	14.6		ug/L		146	10 - 149
Chloroform	10.0	11.1		ug/L		111	80 - 120
Chloromethane	10.0	11.3		ug/L		113	59 - 124
1,1-Dichloroethane	10.0	11.4		ug/L		114	74 - 120
1,2-Dichloroethane	10.0	11.3		ug/L		113	68 - 133
1,1-Dichloroethene	10.0	12.1		ug/L		121	65 - 127
1,2-Dichloropropane	10.0	11.3		ug/L		113	78 - 127
cis-1,3-Dichloropropene	10.0	9.91		ug/L		99	75 - 120
trans-1,3-Dichloropropene	10.0	10.4		ug/L		104	67 - 120
Ethylbenzene	10.0	10.1		ug/L		101	80 - 120
2-Hexanone	20.0	19.0		ug/L		95	28 - 169
Methylene Chloride	10.0	12.2		ug/L		122	64 - 140
4-Methyl-2-pentanone (MIBK)	20.0	18.8		ug/L		94	53 - 144
Styrene	10.0	9.23		ug/L		92	80 - 121
1,1,2,2-Tetrachloroethane	10.0	12.6	*	ug/L		126	58 - 122
Tetrachloroethene	10.0	10.7		ug/L		107	80 - 122
Toluene	10.0	12.0		ug/L		120	78 - 120
Trichloroethene	10.0	9.95		ug/L		99	76 - 124
Vinyl chloride	10.0	12.1		ug/L		121	65 - 124
Xylenes, Total	20.0	19.2		ug/L		96	80 - 120
1,1,1-Trichloroethane	10.0	11.4		ug/L		114	64 - 147
1,1,2-Trichloroethane	10.0	12.5	*	ug/L		125	76 - 121
Cyclohexane	10.0	12.8		ug/L		128	66 - 135
1,2-Dibromo-3-Chloropropane	10.0	9.65		ug/L		97	50 - 130
Ethylene Dibromide	10.0	10.3		ug/L		103	80 - 120
Dichlorodifluoromethane	10.0	13.3		ug/L		133	42 - 141
cis-1,2-Dichloroethene	10.0	10.9		ug/L		109	77 - 120
trans-1,2-Dichloroethene	10.0	10.8		ug/L		108	74 - 124
Isopropylbenzene	10.0	8.72		ug/L		87	80 - 128
Methyl acetate	20.0	21.9		ug/L		109	63 - 137
Methyl tert-butyl ether	10.0	9.90		ug/L		99	73 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	10.5		ug/L		105	65 - 144
1,2,4-Trichlorobenzene	10.0	10.2		ug/L		102	34 - 141
1,2-Dichlorobenzene	10.0	10.3		ug/L		103	80 - 120

TestAmerica Canton

QC Sample Results

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83323-1

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

Lab Sample ID: LCS 240-290805/4

Matrix: Water

Analysis Batch: 290805

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichlorobenzene	10.0	9.80		ug/L		98	80 - 120
1,4-Dichlorobenzene	10.0	10.1		ug/L		101	80 - 120
Trichlorofluoromethane	10.0	14.5		ug/L		145	27 - 176
Methylcyclohexane	10.0	10.1		ug/L		101	63 - 141
m-Xylene & p-Xylene	10.0	9.80		ug/L		98	80 - 120
o-Xylene	10.0	9.40		ug/L		94	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	110		61 - 138
4-Bromofluorobenzene (Surr)	89		69 - 120
Toluene-d8 (Surr)	117		73 - 120
Dibromofluoromethane (Surr)	104		69 - 124

QC Association Summary

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83323-1

GC/MS VOA

Analysis Batch: 290805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-83323-1	GW-12609-080317-SK-001	Total/NA	Water	8260B	
240-83323-2	GW-12609-080317-SK-002	Total/NA	Water	8260B	
240-83323-3	GW-12609-080417-SK-003	Total/NA	Water	8260B	
240-83323-4	TB-12609-080417-SK	Total/NA	Water	8260B	
MB 240-290805/6	Method Blank	Total/NA	Water	8260B	
LCS 240-290805/4	Lab Control Sample	Total/NA	Water	8260B	

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83323-1

Client Sample ID: GW-12609-080317-SK-001

Date Collected: 08/03/17 14:05

Date Received: 08/05/17 09:30

Lab Sample ID: 240-83323-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	290805	08/11/17 17:43	LEE	TAL CAN

Client Sample ID: GW-12609-080317-SK-002

Date Collected: 08/03/17 14:50

Date Received: 08/05/17 09:30

Lab Sample ID: 240-83323-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	290805	08/11/17 18:06	LEE	TAL CAN

Client Sample ID: GW-12609-080417-SK-003

Date Collected: 08/04/17 09:30

Date Received: 08/05/17 09:30

Lab Sample ID: 240-83323-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	290805	08/11/17 18:28	LEE	TAL CAN

Client Sample ID: TB-12609-080417-SK

Date Collected: 08/04/17 00:00

Date Received: 08/05/17 09:30

Lab Sample ID: 240-83323-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	290805	08/11/17 18:51	LEE	TAL CAN

Laboratory References:

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

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: 12609-T01-2017, Racer Toledo

TestAmerica Job ID: 240-83323-1

Laboratory: TestAmerica Canton

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

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2927	02-23-18
Connecticut	State Program	1	PH-0590	12-31-17 *
Florida	NELAP	4	E87225	06-30-18
Illinois	NELAP	5	200004	07-31-18
Kansas	NELAP	7	E-10336	01-31-18 *
Kentucky (UST)	State Program	4	58	02-23-18
Kentucky (WW)	State Program	4	98016	12-31-17 *
Minnesota	NELAP	5	039-999-348	12-31-17 *
Minnesota (Petrofund)	State Program	1	3506	07-31-17 *
Nevada	State Program	9	OH-000482008A	07-31-18
New Jersey	NELAP	2	OH001	06-30-18
New York	NELAP	2	10975	03-31-18
Ohio VAP	State Program	5	CL0024	09-14-17 *
Oregon	NELAP	10	4062	02-23-18
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	12-31-17 *
Wisconsin	State Program	5	999518190	08-31-17 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Canton

T.A.# 24005708

3.6/C3.6

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

Client Contact		Project Manager: <u>A. Lavine</u>		Site Contact: <u>S. Kippen</u>		Date: <u>8-4-17</u>		COC No:		
Company Name: <u>GHD</u>		Tel/Fax: <u>(419) 503-0784</u>		Lab Contact: <u>A. Brown</u>		Carrier: <u>FedEx</u>		1 of 1 COCs		
Address: <u>26850 Haggerty Rd</u>		Analysis Turnaround Time		Filtered Sample (Y/N) Perform MS/MSD (Y/N)		S.K.		Sampler: <u>S. Kippen</u>		
City/State/Zip: <u>Farmington Hills, MI</u>		☐ CALENDAR DAYS ☒ WORKING DAYS						For Lab Use Only:		
Phone: <u>(734) 453-5123</u>		TAT if different from Below						Walk-in Client:		
Fax: <u>Cherry Det @ ghd.com</u>		☒ 2 weeks <u>Standard</u>						Lab Sampling:		
Project Name: <u>GMPT Toledo</u>		☐ 1 week								
Site: <u>Toledo, O.H.</u>		☐ 2 days						Job / SDG No.:		
PO# <u>SSOW: 12906-T01-2017-002</u>		☐ 1 day								
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.		Sample Specific Notes:		
GW-12609-080317-SK-001		8-3-17	14:05	G	GW	3	X			
↓ ↓ ↓ ↓ -002		↓	14:50	↓	↓	3	X			
GW-12609-080417-SK-003		8-4-17	9:30	↓	↓	3	X			
TB-12609-080417-SK		↓	-	-	TB	1	X			
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)								
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.		☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months								
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown										
Special Instructions/QC Requirements & Comments: <u>END of GW Sampling Event</u>										
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.:				
Relinquished by: <u>[Signature]</u>		Company: <u>GHD</u>		Date/Time: <u>8-4-17 12:30</u>		Received by: <u>[Signature]</u>		Company: <u>TAC</u>		
Relinquished by:		Company:		Date/Time:		Received by:		Company:		
Relinquished by:		Company:		Date/Time:		Received in Laboratory by:		Company:		
Relinquished by:		Company:		Date/Time:		Received in Laboratory by:		Company:		



TestAmerica Canton Sample Receipt Form/Narrative Login # : 83323

Canton Facility

Client CHD Site Name GMPT Cooler unpacked by: DSO

Cooler Received on 08/05/17 Opened on 08/05/17

FedEx: 1st Grd Exp UPS FAS Clipper 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

- Cooler temperature upon receipt
IR GUN# IR-8 (CF -0.4 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
IR GUN #36 (CF +0 °C) Observed Cooler Temp. 3.6 °C Corrected Cooler Temp. 3.6 °C
- 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
- Shippers' packing slip attached to the cooler(s)? Yes No
- Did custody papers accompany the sample(s)? Yes No
- Were the custody papers relinquished & signed in the appropriate place? Yes No
- Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
- Did all bottles arrive in good condition (Unbroken)? Yes No
- Could all bottle labels be reconciled with the COC? Yes No
- Were correct bottle(s) used for the test(s) indicated? Yes No
- Sufficient quantity received to perform indicated analyses? Yes No
- Are these work share samples?
If yes, Questions 11-15 have been checked at the originating laboratory.
- Were sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC697954
- Were VOAs on the COC? Yes No
- Were air bubbles >6 mm in any VOA vials?  Larger than this. Yes No NA
- Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # C overed Yes No
- Was a LL Hg or Me Hg trip blank present? Yes No

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

Concerning _____

16. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

17. 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)

18. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____

Appendix D

Data Validation Memo



Memorandum

October 30, 2017

To: Andrew LaVine

Ref. No.: 012609-T01

From: Angela Bown/cs/17-NF

Tel: 513-942-4750

**Subject: Analytical Results and Reduced Validation
Leachate Shutdown HPT Sampling
RACER – Toledo
Toledo, Ohio
July-August 2017**

1. Introduction

This document details a reduced validation of analytical results for soil and water samples collected in support of the Leachate Shutdown HPT Sampling at the RACER Toledo, Ohio site during July-August 2017. Samples were submitted to TestAmerica Laboratories, Inc. (TestAmerica) located in North Canton, Ohio. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2A and Table 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, recovery data from surrogate spikes, laboratory control samples (LCS), matrix spikes (MS), and field QC samples.

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 document entitled "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review", USEPA 540-R-08-01, June 2008.

This item 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. All samples were prepared and analyzed within the required holding times with the exception soil samples for volatile organic compound (VOC) analyses. These samples are to be frozen or prepared for analysis within 48 hours of collection. Table 4 presents the sample results that were qualified due to holding time exceedances.

All samples were properly preserved, delivered on ice, and stored by the laboratory at the required temperature (0-6°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.

Low levels of target analytes were detected in multiple method blanks. Sample results that were similar in concentration to the method blanks were qualified as non-detect in Table 5.

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 VOC and polychlorinated biphenyl (PCB) determinations were spiked with the appropriate number of surrogate compounds prior to sample extraction and/or analysis.

Due to necessary sample dilutions, some surrogate recoveries for PCB analyses were not evaluated.

Surrogate recoveries were assessed against laboratory control limits. All surrogate recoveries were within the laboratory control limits with the exception of high surrogate recoveries for VOC analyses. Non-detect sample results are not impacted by the implied high bias. Table 6 presents the sample results that were qualified due to outlying surrogate recoveries.

5. Laboratory Control Sample Analyses

LCSs are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed independent of sample matrix effects.

High LCS recoveries do not impact the associated non-detect sample results.

For this study, LCS were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

The LCS contained all compounds of interest or the compounds specified in the method. All LCS recoveries were within the laboratory control limits or did not warrant qualification of the associated sample results.

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.

If the original sample concentration is significantly greater than the spike concentration, then the recovery is not assessed.

If only the MS or MSD recovery was outside of control limits, then no qualification of the data was performed based on the acceptable recovery of the companion spike and the acceptable RPD.

High MS/MSD recoveries and/or RPD do not impact non-detect sample results.

MS/MSD analyses were performed as specified in Table 1.

The MS/MSD samples were spiked with all compounds of interest or the compounds specified in the method. All percent recoveries and RPD values were within the laboratory control limits demonstrating acceptable analytical accuracy and precision or did not warrant qualification of the associated sample results.

7. Field QA/QC Samples

The field QA/QC consisted of three trip blank samples and two field duplicate sample sets.

Trip Blank Sample Analysis

To evaluate contamination from sample collection, transportation, storage, and analytical activities, three trip blank samples were submitted to the laboratory for VOC analysis. Low levels of acetone and methylene chloride were detected in the trip blank samples. The associated sample results that were at a similar concentration were qualified as non-detect in Table 7. All remaining results were either non-detect or were significantly greater than the trip blank results for that compound.

Field Duplicate Sample Analysis

To assess the analytical and sampling protocol precision, two field duplicate sample sets were collected and submitted "blind" to the laboratory, as specified in Table 1. The RPDs associated with these duplicate samples must be less than 100 percent for soil samples. If the reported concentration in either the investigative sample or its duplicate is less than five times the reporting limit (RL), the evaluation criterion is two times the RL value for soil samples.

All field duplicate results were within acceptable agreement demonstrating acceptable sampling and analytical precision.

8. 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 qualified as estimated



(J) in Table 2A and Table 2B unless qualified otherwise in this memorandum. Non-detect results were presented as non-detect at the RL in Table 2A and Table 2B.

All soil sample results were reported on a dry weight basis.

9. Conclusion

Based on the assessment detailed in the foregoing, the data summarized in Table 2A and Table 2B are acceptable with the specific qualifications noted herein.

Table 1

Sample Collection and Analysis Summary
Leachate Shutdown HPT Sampling
RACER-Toledo
Toledo, Ohio
July-August 2017

Page 1 of 2

Sample Identification	Location	Matrix	Start Depth (ft bgs)	End Depth (ft bgs)	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	<u>Analysis/Parameters</u>	
							VOCs	PCBs
S-12609-073117-SK-001	SB-1	Soil	4.5	4.5	07/31/2017	12:00	X	X
S-12609-073117-SK-002	SB-1	Soil	7.1	7.1	07/31/2017	12:20	X	X
S-12609-073117-SK-003	SB-2	Soil	4.5	4.5	07/31/2017	14:30	X	X
S-12609-073117-SK-004	SB-2	Soil	10	10	07/31/2017	14:55	X	X
S-12609-073117-SK-005	SB-3	Soil	5	5	07/31/2017	15:55	X	X
S-12609-073117-SK-006	SB-3	Soil	7.5	7.5	07/31/2017	16:05	X	X
S-12609-073117-SK-007	SB-4	Soil	2.5	2.5	07/31/2017	17:05	X	X
S-12609-073117-SK-008	SB-4	Soil	10	10	07/31/2017	17:10	X	X
S-12609-080117-SK-009	SB-5	Soil	4.5	4.5	08/01/2017	09:45	X	X
S-12609-080117-SK-010	SB-5	Soil	15	15	08/01/2017	09:50	X	X
S-12609-080117-SK-011	SB-5	Soil	15	15	08/01/2017	09:55	X	X
S-12609-080117-SK-012	SB-6	Soil	7.5	7.5	08/01/2017	10:55	X	X
S-12609-080117-SK-013	SB-6	Soil	20	20	08/01/2017	11:00	X	X
S-12609-080117-SK-014	SB-7	Soil	10	10	08/01/2017	12:00	X	X
S-12609-080117-SK-015	SB-7	Soil	15	15	08/01/2017	12:05	X	X
S-12609-080117-SK-016	SB-8	Soil	2.5	2.5	08/01/2017	15:15	X	X
S-12609-080117-SK-017	SB-8	Soil	10	10	08/01/2017	15:20	X	X
S-12609-080117-SK-018	SB-9	Soil	2.5	2.5	08/01/2017	16:20	X	X
S-12609-080117-SK-019	SB-9	Soil	15	15	08/01/2017	16:25	X	X
S-12609-080117-SK-020	SB-10	Soil	5	5	08/01/2017	17:15	X	X
S-12609-080117-SK-021	SB-10	Soil	12.5	12.5	08/01/2017	17:20	X	X
TB-12609-080117-SK	-	WGQ	-	-	08/01/2017	-	X	
S-12609-080217-SK-022	SB-11	Soil	5	5	08/02/2017	09:50	X	X
S-12609-080217-SK-023	SB-11	Soil	12.5	12.5	08/02/2017	09:55	X	X
S-12609-080217-SK-024	SB-12	Soil	5.5	5.5	08/02/2017	12:15	X	X
S-12609-080217-SK-025	SB-12	Soil	5.5	5.5	08/02/2017	12:20	X	X
S-12609-080217-SK-026	SB-12	Soil	18	18	08/02/2017	12:25	X	X
S-12609-080217-SK-027	SB-13	Soil	10	10	08/02/2017	14:50	X	X
S-12609-080217-SK-028	SB-13	Soil	15.5	15.5	08/02/2017	14:55	X	X
S-12609-080217-SK-029	SB-14	Soil	8	8	08/02/2017	16:00	X	X
S-12609-080217-SK-030	SB-14	Soil	14.5	14.5	08/02/2017	16:05	X	X

FD(S-12609-080117-SK-010)

MS/MSD

Trip Blank

FD(S-12609-080217-SK-024)

Table 1

Sample Collection and Analysis Summary
Leachate Shutdown HPT Sampling
RACER-Toledo
Toledo, Ohio
July-August 2017

Page 2 of 2

Sample Identification	Location	Matrix	Start Depth (ft bgs)	End Depth (ft bgs)	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	<u>Analysis/Parameters</u>	
							VOCs	PCBs
S-12609-080317-SK-031	SB-15	Soil	14.2	14.2	08/03/2017	09:55	X	X
S-12609-080317-SK-032	SB-15	Soil	3.5	3.5	08/03/2017	10:35	X	X
S-12609-080317-SK-033	SB-15	Soil	18	18	08/03/2017	10:45	X	X
S-12609-080317-SK-034	SB-16	Soil	7.5	7.5	08/03/2017	12:00	X	X
S-12609-080317-SK-035	SB-16	Soil	12.5	12.5	08/03/2017	12:05	X	X
S-12609-080317-SK-036	SB-17	Soil	10	10	08/03/2017	14:45	X	X
S-12609-080317-SK-037	SB-17	Soil	15	15	08/03/2017	14:50	X	X
S-12609-080317-SK-038	SB-18	Soil	7	7	08/03/2017	16:10	X	X
S-12609-080317-SK-039	SB-18	Soil	12.6	12.6	08/03/2017	16:15	X	X
S-12609-080317-SK-040	SB-19	Soil	7.5	7.5	08/03/2017	16:50	X	X
S-12609-080317-SK-041	SB-19	Soil	15	15	08/03/2017	16:55	X	X
TB-12609-080417-SK	-	WGQ	-	-	08/04/2017	-	X	
GW-12609-080317-SK-001	SB-14	Water	-	-	08/03/2017	14:05	X	
GW-12609-080317-SK-002	SB-13	Water	-	-	08/03/2017	14:50	X	
GW-12609-080417-SK-003	SB-11	Water	-	-	08/04/2017	09:30	X	
TB-12609-080417-SK	-	WGQ	-	-	08/04/2017	-	X	

MS/MSD

Trip Blank

Trip Blank

Notes:

- FD() - Field Duplicate sample of sample in parenthesis
ft bgs - Feet below ground surface
MS/MSD - Matrix Spike/Matrix Spike Duplicate
PCBs - Polychlorinated Biphenyls
VOCs - Volatile Organic Compounds
WGQ - Groundwater Quality Control Sample
- - Not applicable

Table 2A

Analytical Results Summary
Leachated Shutdown HPT Sampling
RACER-Toledo
Toledo, Ohio
July-August 2017

Location ID:	SB-01	SB-01	SB-10
Sample Name:	S-12609-073117-SK-001	S-12609-073117-SK-002	S-12609-080117-SK-020
Sample Date:	07/31/2017	07/31/2017	08/01/2017
Depth:	4.5-4.5 ft BGS	7.1-7.1 ft BGS	5-5 ft BGS

Parameters	Unit			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	340 UJ	330 UJ	330 U
1,1,2,2-Tetrachloroethane	µg/kg	340 UJ	330 UJ	330 U
1,1,2-Trichloroethane	µg/kg	340 UJ	330 UJ	330 U
1,1-Dichloroethane	µg/kg	340 UJ	330 UJ	330 U
1,1-Dichloroethene	µg/kg	340 UJ	330 UJ	330 U
1,2,4-Trichlorobenzene	µg/kg	340 UJ	330 UJ	330 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	690 UJ	660 UJ	650 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	340 UJ	330 UJ	330 U
1,2-Dichlorobenzene	µg/kg	340 UJ	330 UJ	330 U
1,2-Dichloroethane	µg/kg	340 UJ	330 UJ	330 U
1,2-Dichloropropane	µg/kg	340 UJ	330 UJ	330 U
1,3-Dichlorobenzene	µg/kg	340 UJ	330 UJ	330 U
1,4-Dichlorobenzene	µg/kg	340 UJ	330 UJ	330 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	1400 UJ	1300 UJ	1300 U
2-Hexanone	µg/kg	1400 UJ	1300 UJ	1300 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	1400 UJ	1300 UJ	1300 U
Acetone	µg/kg	1400 UJ	1300 UJ	1300 U
Benzene	µg/kg	340 UJ	330 UJ	330 U
Bromodichloromethane	µg/kg	340 UJ	330 UJ	330 U
Bromoform	µg/kg	340 UJ	330 UJ	330 U

Analytical Results Summary
Leachated Shutdown HPT Sampling
RACER-Toledo
Toledo, Ohio
July-August 2017

Location ID:	SB-01	SB-01	SB-10
Sample Name:	S-12609-073117-SK-001	S-12609-073117-SK-002	S-12609-080117-SK-020
Sample Date:	07/31/2017	07/31/2017	08/01/2017
Depth:	4.5-4.5 ft BGS	7.1-7.1 ft BGS	5-5 ft BGS

Parameters	Unit			
Volatile Organic Compounds				
Bromomethane (Methyl bromide)	µg/kg	340 UJ	330 UJ	330 U
Carbon disulfide	µg/kg	340 UJ	330 UJ	330 U
Carbon tetrachloride	µg/kg	340 UJ	330 UJ	330 U
Chlorobenzene	µg/kg	340 UJ	330 UJ	330 U
Chloroethane	µg/kg	340 UJ	330 UJ	330 U
Chloroform (Trichloromethane)	µg/kg	340 UJ	330 UJ	330 U
Chloromethane (Methyl chloride)	µg/kg	340 UJ	330 UJ	330 U
cis-1,2-Dichloroethene	µg/kg	340 UJ	330 UJ	330 U
cis-1,3-Dichloropropene	µg/kg	340 UJ	330 UJ	330 U
Cyclohexane	µg/kg	690 UJ	660 UJ	650 U
Dibromochloromethane	µg/kg	340 UJ	330 UJ	330 U
Dichlorodifluoromethane (CFC-12)	µg/kg	340 UJ	330 UJ	330 U
Ethylbenzene	µg/kg	340 UJ	330 UJ	330 U
Isopropyl benzene	µg/kg	340 UJ	330 UJ	330 U
Methyl acetate	µg/kg	120 J	150 J	1600 U
Methyl cyclohexane	µg/kg	690 UJ	660 UJ	650 U
Methyl tert butyl ether (MTBE)	µg/kg	340 UJ	330 UJ	330 U
Methylene chloride	µg/kg	340 UJ	330 UJ	330 U
Styrene	µg/kg	340 UJ	330 UJ	330 U
Tetrachloroethene	µg/kg	340 UJ	330 UJ	330 U
Toluene	µg/kg	340 UJ	330 UJ	330 U
trans-1,2-Dichloroethene	µg/kg	340 UJ	330 UJ	330 U
trans-1,3-Dichloropropene	µg/kg	340 UJ	330 UJ	330 U
Trichloroethene	µg/kg	340 UJ	330 UJ	330 U
Trichlorofluoromethane (CFC-11)	µg/kg	340 UJ	330 UJ	330 U
Trifluorotrchloroethane (CFC-113)	µg/kg	340 UJ	330 UJ	330 U
Vinyl chloride	µg/kg	340 UJ	330 UJ	330 U
Xylenes (total)	µg/kg	690 UJ	660 UJ	650 U

**Analytical Results Summary
Leachated Shutdown HPT Sampling
RACER-Toledo
Toledo, Ohio
July-August 2017**

Location ID:	SB-01	SB-01	SB-10
Sample Name:	S-12609-073117-SK-001	S-12609-073117-SK-002	S-12609-080117-SK-020
Sample Date:	07/31/2017	07/31/2017	08/01/2017
Depth:	4.5-4.5 ft BGS	7.1-7.1 ft BGS	5-5 ft BGS

Parameters**Unit****Pesticides/PCBs**

Aroclor-1016 (PCB-1016)	µg/kg	60 U	65 U	60 U
Aroclor-1221 (PCB-1221)	µg/kg	60 U	65 U	60 U
Aroclor-1232 (PCB-1232)	µg/kg	60 U	65 U	60 U
Aroclor-1242 (PCB-1242)	µg/kg	60 U	65 U	60 U
Aroclor-1248 (PCB-1248)	µg/kg	60 U	65 U	60 U
Aroclor-1254 (PCB-1254)	µg/kg	60 U	65 U	60 U
Aroclor-1260 (PCB-1260)	µg/kg	60 U	65 U	60 U
Total PCBs	µg/kg	0	0	0

Notes:

U - Not detected at the associated reporting limit

UJ - Not detected; associated reporting limit is estimated

J - Estimated concentration

-- - Not applicable

Analytical Results Summary
Leachated Shutdown HPT Sampling
RACER-Toledo
Toledo, Ohio
July-August 2017

Location ID:	SB-10	SB-11	SB-11
Sample Name:	S-12609-080117-SK-021	S-12609-080217-SK-022	S-12609-080217-SK-023
Sample Date:	08/01/2017	08/02/2017	08/02/2017
Depth:	12.5-12.5 ft BGS	5-5 ft BGS	12.5-12.5 ft BGS

Parameters	Unit			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	370 U	330 UJ	430 UJ
1,1,2,2-Tetrachloroethane	µg/kg	370 U	330 UJ	430 UJ
1,1,2-Trichloroethane	µg/kg	370 U	330 UJ	430 UJ
1,1-Dichloroethane	µg/kg	370 U	330 UJ	430 UJ
1,1-Dichloroethene	µg/kg	370 U	330 UJ	430 UJ
1,2,4-Trichlorobenzene	µg/kg	370 U	330 UJ	430 UJ
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	740 U	660 UJ	860 UJ
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	370 U	330 UJ	430 UJ
1,2-Dichlorobenzene	µg/kg	370 U	330 UJ	430 UJ
1,2-Dichloroethane	µg/kg	370 U	330 UJ	430 UJ
1,2-Dichloropropane	µg/kg	370 U	330 UJ	430 UJ
1,3-Dichlorobenzene	µg/kg	370 U	330 UJ	430 UJ
1,4-Dichlorobenzene	µg/kg	370 U	330 UJ	430 UJ
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	1500 U	1300 UJ	1700 UJ
2-Hexanone	µg/kg	1500 U	1300 UJ	1700 UJ
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	1500 U	1300 UJ	1700 UJ
Acetone	µg/kg	1500 U	1300 UJ	1700 UJ
Benzene	µg/kg	370 U	330 UJ	430 UJ
Bromodichloromethane	µg/kg	370 U	330 UJ	430 UJ
Bromoform	µg/kg	370 U	330 UJ	430 UJ

Analytical Results Summary
Leachated Shutdown HPT Sampling
RACER-Toledo
Toledo, Ohio
July-August 2017

Location ID:	SB-10	SB-11	SB-11
Sample Name:	S-12609-080117-SK-021	S-12609-080217-SK-022	S-12609-080217-SK-023
Sample Date:	08/01/2017	08/02/2017	08/02/2017
Depth:	12.5-12.5 ft BGS	5-5 ft BGS	12.5-12.5 ft BGS

Parameters	Unit			
Volatile Organic Compounds				
Bromomethane (Methyl bromide)	µg/kg	370 U	330 UJ	430 UJ
Carbon disulfide	µg/kg	370 U	330 UJ	430 UJ
Carbon tetrachloride	µg/kg	370 U	330 UJ	430 UJ
Chlorobenzene	µg/kg	370 U	330 UJ	430 UJ
Chloroethane	µg/kg	370 U	330 UJ	430 UJ
Chloroform (Trichloromethane)	µg/kg	370 U	330 UJ	430 UJ
Chloromethane (Methyl chloride)	µg/kg	370 U	330 UJ	430 UJ
cis-1,2-Dichloroethene	µg/kg	370 U	330 UJ	430 UJ
cis-1,3-Dichloropropene	µg/kg	370 U	330 UJ	430 UJ
Cyclohexane	µg/kg	740 U	660 UJ	860 UJ
Dibromochloromethane	µg/kg	370 U	330 UJ	430 UJ
Dichlorodifluoromethane (CFC-12)	µg/kg	370 U	330 UJ	430 UJ
Ethylbenzene	µg/kg	370 U	330 UJ	430 UJ
Isopropyl benzene	µg/kg	370 U	330 UJ	430 UJ
Methyl acetate	µg/kg	110 J	1700 UJ	2200 UJ
Methyl cyclohexane	µg/kg	740 U	660 UJ	860 UJ
Methyl tert butyl ether (MTBE)	µg/kg	370 U	330 UJ	430 UJ
Methylene chloride	µg/kg	370 U	330 UJ	430 UJ
Styrene	µg/kg	370 U	330 UJ	430 UJ
Tetrachloroethene	µg/kg	370 U	330 UJ	430 UJ
Toluene	µg/kg	370 U	330 UJ	430 UJ
trans-1,2-Dichloroethene	µg/kg	370 U	330 UJ	430 UJ
trans-1,3-Dichloropropene	µg/kg	370 U	330 UJ	430 UJ
Trichloroethene	µg/kg	370 U	330 UJ	130 J
Trichlorofluoromethane (CFC-11)	µg/kg	370 U	330 UJ	430 UJ
Trifluorotrchloroethane (CFC-113)	µg/kg	370 U	330 UJ	430 UJ
Vinyl chloride	µg/kg	370 U	330 UJ	430 UJ
Xylenes (total)	µg/kg	740 U	660 UJ	860 UJ

**Analytical Results Summary
Leachated Shutdown HPT Sampling
RACER-Toledo
Toledo, Ohio
July-August 2017**

Location ID:	SB-10	SB-11	SB-11
Sample Name:	S-12609-080117-SK-021	S-12609-080217-SK-022	S-12609-080217-SK-023
Sample Date:	08/01/2017	08/02/2017	08/02/2017
Depth:	12.5-12.5 ft BGS	5-5 ft BGS	12.5-12.5 ft BGS

Parameters**Unit****Pesticides/PCBs**

Aroclor-1016 (PCB-1016)	µg/kg	65 U	62 U	68 U
Aroclor-1221 (PCB-1221)	µg/kg	65 U	62 U	68 U
Aroclor-1232 (PCB-1232)	µg/kg	65 U	62 U	68 U
Aroclor-1242 (PCB-1242)	µg/kg	65 U	62 U	68 U
Aroclor-1248 (PCB-1248)	µg/kg	65 U	62 U	68 U
Aroclor-1254 (PCB-1254)	µg/kg	65 U	42 J	68 U
Aroclor-1260 (PCB-1260)	µg/kg	65 U	62 U	68 U
Total PCBs	µg/kg	0	42 J	0

Notes:

U - Not detected at the associated reporting limit

UJ - Not detected; associated reporting limit is estimated

J - Estimated concentration

-- - Not applicable

Table 2A

Analytical Results Summary
Leachated Shutdown HPT Sampling
RACER-Toledo
Toledo, Ohio
July-August 2017

Parameters	Unit	Location ID:	SB-12	SB-12	SB-12
		Sample Name:	S-12609-080217-SK-024	S-12609-080217-SK-025	S-12609-080217-SK-026
		Sample Date:	08/02/2017	08/02/2017	08/02/2017
		Depth:	5.5-5.5 ft BGS	5.5-5.5 ft BGS Duplicate	18-18 ft BGS
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/kg		320 UJ	350 UJ	350 UJ
1,1,2,2-Tetrachloroethane	µg/kg		320 UJ	350 UJ	350 UJ
1,1,2-Trichloroethane	µg/kg		320 UJ	350 UJ	350 UJ
1,1-Dichloroethane	µg/kg		320 UJ	350 UJ	350 UJ
1,1-Dichloroethene	µg/kg		320 UJ	350 UJ	350 UJ
1,2,4-Trichlorobenzene	µg/kg		320 UJ	350 UJ	350 UJ
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg		630 UJ	700 UJ	690 UJ
1,2-Dibromoethane (Ethylene dibromide)	µg/kg		320 UJ	350 UJ	350 UJ
1,2-Dichlorobenzene	µg/kg		320 UJ	350 UJ	350 UJ
1,2-Dichloroethane	µg/kg		320 UJ	350 UJ	350 UJ
1,2-Dichloropropane	µg/kg		320 UJ	350 UJ	350 UJ
1,3-Dichlorobenzene	µg/kg		320 UJ	350 UJ	350 UJ
1,4-Dichlorobenzene	µg/kg		320 UJ	350 UJ	350 UJ
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg		1300 UJ	1400 UJ	1400 UJ
2-Hexanone	µg/kg		1300 UJ	1400 UJ	1400 UJ
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg		1300 UJ	1400 UJ	1400 UJ
Acetone	µg/kg		1300 UJ	1400 UJ	1400 UJ
Benzene	µg/kg		320 UJ	350 UJ	350 UJ
Bromodichloromethane	µg/kg		320 UJ	350 UJ	350 UJ
Bromoform	µg/kg		320 UJ	350 UJ	350 UJ

Analytical Results Summary
Leachated Shutdown HPT Sampling
RACER-Toledo
Toledo, Ohio
July-August 2017

Location ID:	SB-12	SB-12	SB-12
Sample Name:	S-12609-080217-SK-024	S-12609-080217-SK-025	S-12609-080217-SK-026
Sample Date:	08/02/2017	08/02/2017	08/02/2017
Depth:	5.5-5.5 ft BGS	5.5-5.5 ft BGS	18-18 ft BGS
		Duplicate	

Parameters	Unit			
Volatile Organic Compounds				
Bromomethane (Methyl bromide)	µg/kg	320 UJ	350 UJ	350 UJ
Carbon disulfide	µg/kg	320 UJ	350 UJ	350 UJ
Carbon tetrachloride	µg/kg	320 UJ	350 UJ	350 UJ
Chlorobenzene	µg/kg	320 UJ	350 UJ	350 UJ
Chloroethane	µg/kg	320 UJ	350 UJ	350 UJ
Chloroform (Trichloromethane)	µg/kg	320 UJ	350 UJ	350 UJ
Chloromethane (Methyl chloride)	µg/kg	320 UJ	350 UJ	350 UJ
cis-1,2-Dichloroethene	µg/kg	320 UJ	350 UJ	350 UJ
cis-1,3-Dichloropropene	µg/kg	320 UJ	350 UJ	350 UJ
Cyclohexane	µg/kg	630 UJ	700 UJ	690 UJ
Dibromochloromethane	µg/kg	320 UJ	350 UJ	350 UJ
Dichlorodifluoromethane (CFC-12)	µg/kg	320 UJ	350 UJ	350 UJ
Ethylbenzene	µg/kg	320 UJ	350 UJ	350 UJ
Isopropyl benzene	µg/kg	320 UJ	350 UJ	350 UJ
Methyl acetate	µg/kg	1600 UJ	1800 UJ	1700 UJ
Methyl cyclohexane	µg/kg	630 UJ	700 UJ	690 UJ
Methyl tert butyl ether (MTBE)	µg/kg	320 UJ	350 UJ	350 UJ
Methylene chloride	µg/kg	320 UJ	350 UJ	350 UJ
Styrene	µg/kg	320 UJ	350 UJ	350 UJ
Tetrachloroethene	µg/kg	320 UJ	350 UJ	350 UJ
Toluene	µg/kg	320 UJ	350 UJ	350 UJ
trans-1,2-Dichloroethene	µg/kg	320 UJ	350 UJ	350 UJ
trans-1,3-Dichloropropene	µg/kg	320 UJ	350 UJ	350 UJ
Trichloroethene	µg/kg	320 UJ	350 UJ	350 UJ
Trichlorofluoromethane (CFC-11)	µg/kg	320 UJ	350 UJ	350 UJ
Trifluorotrchloroethane (CFC-113)	µg/kg	320 UJ	350 UJ	350 UJ
Vinyl chloride	µg/kg	320 UJ	350 UJ	350 UJ
Xylenes (total)	µg/kg	630 UJ	700 UJ	690 UJ

**Analytical Results Summary
Leachated Shutdown HPT Sampling
RACER-Toledo
Toledo, Ohio
July-August 2017**

Location ID:	SB-12	SB-12	SB-12
Sample Name:	S-12609-080217-SK-024	S-12609-080217-SK-025	S-12609-080217-SK-026
Sample Date:	08/02/2017	08/02/2017	08/02/2017
Depth:	5.5-5.5 ft BGS	5.5-5.5 ft BGS	18-18 ft BGS
		Duplicate	

Parameters**Unit****Pesticides/PCBs**

Aroclor-1016 (PCB-1016)	µg/kg	57 U	61 U	63 U
Aroclor-1221 (PCB-1221)	µg/kg	57 U	61 U	63 U
Aroclor-1232 (PCB-1232)	µg/kg	57 U	61 U	63 U
Aroclor-1242 (PCB-1242)	µg/kg	57 U	61 U	63 U
Aroclor-1248 (PCB-1248)	µg/kg	57 U	61 U	63 U
Aroclor-1254 (PCB-1254)	µg/kg	57 U	61 U	63 U
Aroclor-1260 (PCB-1260)	µg/kg	57 U	61 U	63 U
Total PCBs	µg/kg	0	0	0

Notes:

U - Not detected at the associated reporting limit

UJ - Not detected; associated reporting limit is estimated

J - Estimated concentration

-- - Not applicable

Table 2A

Analytical Results Summary
Leachated Shutdown HPT Sampling
RACER-Toledo
Toledo, Ohio
July-August 2017

Location ID:	SB-13	SB-13	SB-14
Sample Name:	S-12609-080217-SK-027	S-12609-080217-SK-028	S-12609-080217-SK-029
Sample Date:	08/02/2017	08/02/2017	08/02/2017
Depth:	10-10 ft BGS	15.5-15.5 ft BGS	8-8 ft BGS

Parameters	Unit			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	360 UJ	350 UJ	320 UJ
1,1,2,2-Tetrachloroethane	µg/kg	360 UJ	350 UJ	320 UJ
1,1,2-Trichloroethane	µg/kg	360 UJ	350 UJ	320 UJ
1,1-Dichloroethane	µg/kg	360 UJ	350 UJ	320 UJ
1,1-Dichloroethene	µg/kg	360 UJ	350 UJ	320 UJ
1,2,4-Trichlorobenzene	µg/kg	360 UJ	350 UJ	320 UJ
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	730 UJ	700 UJ	640 UJ
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	360 UJ	350 UJ	320 UJ
1,2-Dichlorobenzene	µg/kg	360 UJ	350 UJ	320 UJ
1,2-Dichloroethane	µg/kg	360 UJ	350 UJ	320 UJ
1,2-Dichloropropane	µg/kg	360 UJ	350 UJ	320 UJ
1,3-Dichlorobenzene	µg/kg	360 UJ	350 UJ	320 UJ
1,4-Dichlorobenzene	µg/kg	360 UJ	350 UJ	320 UJ
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	1500 UJ	1400 UJ	1300 UJ
2-Hexanone	µg/kg	1500 UJ	1400 UJ	1300 UJ
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	1500 UJ	1400 UJ	1300 UJ
Acetone	µg/kg	1500 UJ	1400 UJ	1300 UJ
Benzene	µg/kg	360 UJ	350 UJ	320 UJ
Bromodichloromethane	µg/kg	360 UJ	350 UJ	320 UJ
Bromoform	µg/kg	360 UJ	350 UJ	320 UJ

Analytical Results Summary
Leachated Shutdown HPT Sampling
RACER-Toledo
Toledo, Ohio
July-August 2017

Location ID:	SB-13	SB-13	SB-14
Sample Name:	S-12609-080217-SK-027	S-12609-080217-SK-028	S-12609-080217-SK-029
Sample Date:	08/02/2017	08/02/2017	08/02/2017
Depth:	10-10 ft BGS	15.5-15.5 ft BGS	8-8 ft BGS

Parameters	Unit			
Volatile Organic Compounds				
Bromomethane (Methyl bromide)	µg/kg	360 UJ	350 UJ	320 UJ
Carbon disulfide	µg/kg	360 UJ	350 UJ	320 UJ
Carbon tetrachloride	µg/kg	360 UJ	350 UJ	320 UJ
Chlorobenzene	µg/kg	360 UJ	350 UJ	320 UJ
Chloroethane	µg/kg	360 UJ	350 UJ	320 UJ
Chloroform (Trichloromethane)	µg/kg	360 UJ	350 UJ	320 UJ
Chloromethane (Methyl chloride)	µg/kg	360 UJ	350 UJ	320 UJ
cis-1,2-Dichloroethene	µg/kg	360 UJ	350 UJ	320 UJ
cis-1,3-Dichloropropene	µg/kg	360 UJ	350 UJ	320 UJ
Cyclohexane	µg/kg	730 UJ	700 UJ	640 UJ
Dibromochloromethane	µg/kg	360 UJ	350 UJ	320 UJ
Dichlorodifluoromethane (CFC-12)	µg/kg	360 UJ	350 UJ	320 UJ
Ethylbenzene	µg/kg	360 UJ	350 UJ	320 UJ
Isopropyl benzene	µg/kg	360 UJ	350 UJ	320 UJ
Methyl acetate	µg/kg	120 J	1700 UJ	1600 UJ
Methyl cyclohexane	µg/kg	730 UJ	700 UJ	640 UJ
Methyl tert butyl ether (MTBE)	µg/kg	360 UJ	350 UJ	320 UJ
Methylene chloride	µg/kg	360 UJ	350 UJ	320 UJ
Styrene	µg/kg	360 UJ	350 UJ	320 UJ
Tetrachloroethene	µg/kg	360 UJ	350 UJ	320 UJ
Toluene	µg/kg	360 UJ	350 UJ	320 UJ
trans-1,2-Dichloroethene	µg/kg	360 UJ	350 UJ	320 UJ
trans-1,3-Dichloropropene	µg/kg	360 UJ	350 UJ	320 UJ
Trichloroethene	µg/kg	360 UJ	350 UJ	320 UJ
Trichlorofluoromethane (CFC-11)	µg/kg	360 UJ	350 UJ	320 UJ
Trifluorotrchloroethane (CFC-113)	µg/kg	360 UJ	350 UJ	320 UJ
Vinyl chloride	µg/kg	360 UJ	350 UJ	320 UJ
Xylenes (total)	µg/kg	730 UJ	700 UJ	640 UJ

Table 2A

Analytical Results Summary
Leachated Shutdown HPT Sampling
RACER-Toledo
Toledo, Ohio
July-August 2017

Location ID:	SB-13	SB-13	SB-14
Sample Name:	S-12609-080217-SK-027	S-12609-080217-SK-028	S-12609-080217-SK-029
Sample Date:	08/02/2017	08/02/2017	08/02/2017
Depth:	10-10 ft BGS	15.5-15.5 ft BGS	8-8 ft BGS

Parameters**Unit****Pesticides/PCBs**

Aroclor-1016 (PCB-1016)	µg/kg	68 U	63 U	60 U
Aroclor-1221 (PCB-1221)	µg/kg	68 U	63 U	60 U
Aroclor-1232 (PCB-1232)	µg/kg	68 U	63 U	60 U
Aroclor-1242 (PCB-1242)	µg/kg	68 U	63 U	60 U
Aroclor-1248 (PCB-1248)	µg/kg	68 U	63 U	60 U
Aroclor-1254 (PCB-1254)	µg/kg	68 U	63 U	60 U
Aroclor-1260 (PCB-1260)	µg/kg	68 U	63 U	60 U
Total PCBs	µg/kg	0	0	0

Notes:

U - Not detected at the associated reporting limit
 UJ - Not detected; associated reporting limit is estimated
 J - Estimated concentration
 -- - Not applicable

Analytical Results Summary
Leachated Shutdown HPT Sampling
RACER-Toledo
Toledo, Ohio
July-August 2017

Location ID:	SB-14	SB-15	SB-15
Sample Name:	S-12609-080217-SK-030	S-12609-080317-SK-032	S-12609-080317-SK-031
Sample Date:	08/02/2017	08/03/2017	08/03/2017
Depth:	14.5-14.5 ft BGS	3.5-3.5 ft BGS	14.2-14.2 ft BGS

Parameters	Unit			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	400 UJ	300 U	340 U
1,1,2,2-Tetrachloroethane	µg/kg	400 UJ	300 U	340 U
1,1,2-Trichloroethane	µg/kg	400 UJ	300 U	340 U
1,1-Dichloroethane	µg/kg	400 UJ	300 U	340 U
1,1-Dichloroethene	µg/kg	400 UJ	300 U	340 U
1,2,4-Trichlorobenzene	µg/kg	400 UJ	300 U	340 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	810 UJ	610 U	670 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	400 UJ	300 U	340 U
1,2-Dichlorobenzene	µg/kg	400 UJ	300 U	51 J
1,2-Dichloroethane	µg/kg	400 UJ	300 U	340 U
1,2-Dichloropropane	µg/kg	400 UJ	300 U	340 U
1,3-Dichlorobenzene	µg/kg	400 UJ	300 U	340 U
1,4-Dichlorobenzene	µg/kg	400 UJ	300 U	340 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	1600 UJ	90 J	69 J
2-Hexanone	µg/kg	1600 UJ	1200 U	1300 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	1600 UJ	1200 U	1300 U
Acetone	µg/kg	1600 UJ	1200 U	1300 U
Benzene	µg/kg	400 UJ	300 U	340 U
Bromodichloromethane	µg/kg	400 UJ	300 U	340 U
Bromoform	µg/kg	400 UJ	300 U	340 U

Analytical Results Summary
Leachated Shutdown HPT Sampling
RACER-Toledo
Toledo, Ohio
July-August 2017

Location ID:	SB-14	SB-15	SB-15
Sample Name:	S-12609-080217-SK-030	S-12609-080317-SK-032	S-12609-080317-SK-031
Sample Date:	08/02/2017	08/03/2017	08/03/2017
Depth:	14.5-14.5 ft BGS	3.5-3.5 ft BGS	14.2-14.2 ft BGS

Parameters	Unit			
Volatile Organic Compounds				
Bromomethane (Methyl bromide)	µg/kg	400 UJ	300 U	340 U
Carbon disulfide	µg/kg	400 UJ	300 U	340 U
Carbon tetrachloride	µg/kg	400 UJ	300 U	340 U
Chlorobenzene	µg/kg	400 UJ	300 U	340 U
Chloroethane	µg/kg	400 UJ	300 U	340 U
Chloroform (Trichloromethane)	µg/kg	400 UJ	300 U	340 U
Chloromethane (Methyl chloride)	µg/kg	400 UJ	300 U	340 U
cis-1,2-Dichloroethene	µg/kg	400 UJ	300 U	340 U
cis-1,3-Dichloropropene	µg/kg	400 UJ	300 U	340 U
Cyclohexane	µg/kg	810 UJ	610 U	670 U
Dibromochloromethane	µg/kg	400 UJ	300 U	340 U
Dichlorodifluoromethane (CFC-12)	µg/kg	400 UJ	300 U	340 U
Ethylbenzene	µg/kg	400 UJ	300 U	340 U
Isopropyl benzene	µg/kg	400 UJ	300 U	340 U
Methyl acetate	µg/kg	2000 UJ	240 J	190 J
Methyl cyclohexane	µg/kg	810 UJ	610 U	670 U
Methyl tert butyl ether (MTBE)	µg/kg	400 UJ	300 U	340 U
Methylene chloride	µg/kg	400 UJ	300 U	340 U
Styrene	µg/kg	400 UJ	300 U	340 U
Tetrachloroethene	µg/kg	400 UJ	300 U	340 U
Toluene	µg/kg	400 UJ	300 U	340 U
trans-1,2-Dichloroethene	µg/kg	400 UJ	300 U	340 U
trans-1,3-Dichloropropene	µg/kg	400 UJ	300 U	340 U
Trichloroethene	µg/kg	400 UJ	300 U	340 U
Trichlorofluoromethane (CFC-11)	µg/kg	400 UJ	300 U	340 U
Trifluorotrichloroethane (CFC-113)	µg/kg	400 UJ	300 U	340 U
Vinyl chloride	µg/kg	400 UJ	300 U	340 U
Xylenes (total)	µg/kg	810 UJ	610 U	140 J

**Analytical Results Summary
Leachated Shutdown HPT Sampling
RACER-Toledo
Toledo, Ohio
July-August 2017**

Location ID:	SB-14	SB-15	SB-15
Sample Name:	S-12609-080217-SK-030	S-12609-080317-SK-032	S-12609-080317-SK-031
Sample Date:	08/02/2017	08/03/2017	08/03/2017
Depth:	14.5-14.5 ft BGS	3.5-3.5 ft BGS	14.2-14.2 ft BGS

Parameters**Unit****Pesticides/PCBs**

Aroclor-1016 (PCB-1016)	µg/kg	64 U	59 U	1300 U
Aroclor-1221 (PCB-1221)	µg/kg	64 U	59 U	1300 U
Aroclor-1232 (PCB-1232)	µg/kg	64 U	59 U	1300 U
Aroclor-1242 (PCB-1242)	µg/kg	64 U	59 U	1300 U
Aroclor-1248 (PCB-1248)	µg/kg	64 U	1600	16000
Aroclor-1254 (PCB-1254)	µg/kg	64 U	59 U	1300 U
Aroclor-1260 (PCB-1260)	µg/kg	64 U	59 U	1300 U
Total PCBs	µg/kg	0	1600	16000

Notes:

U - Not detected at the associated reporting limit

UJ - Not detected; associated reporting limit is estimated

J - Estimated concentration

-- - Not applicable

Analytical Results Summary
Leachated Shutdown HPT Sampling
RACER-Toledo
Toledo, Ohio
July-August 2017

Location ID:	SB-15	SB-16	SB-16
Sample Name:	S-12609-080317-SK-033	S-12609-080317-SK-034	S-12609-080317-SK-035
Sample Date:	08/03/2017	08/03/2017	08/03/2017
Depth:	18-18 ft BGS	7.5-7.5 ft BGS	12.5-12.5 ft BGS

Parameters	Unit			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	400 U	320 U	390 U
1,1,2,2-Tetrachloroethane	µg/kg	400 U	320 U	390 U
1,1,2-Trichloroethane	µg/kg	400 U	320 U	390 U
1,1-Dichloroethane	µg/kg	400 U	320 U	390 U
1,1-Dichloroethene	µg/kg	400 U	320 U	390 U
1,2,4-Trichlorobenzene	µg/kg	400 U	320 U	390 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	800 U	630 U	770 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	400 U	320 U	390 U
1,2-Dichlorobenzene	µg/kg	400 U	320 U	390 U
1,2-Dichloroethane	µg/kg	400 U	320 U	390 U
1,2-Dichloropropane	µg/kg	400 U	320 U	390 U
1,3-Dichlorobenzene	µg/kg	400 U	320 U	390 U
1,4-Dichlorobenzene	µg/kg	400 U	320 U	390 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	1600 U	1300 U	1500 U
2-Hexanone	µg/kg	1600 U	1300 U	1500 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	1600 U	1300 U	1500 U
Acetone	µg/kg	1600 U	1300 U	1500 U
Benzene	µg/kg	400 U	320 U	390 U
Bromodichloromethane	µg/kg	400 U	320 U	390 U
Bromoform	µg/kg	400 U	320 U	390 U

Analytical Results Summary
Leachated Shutdown HPT Sampling
RACER-Toledo
Toledo, Ohio
July-August 2017

Location ID:	SB-15	SB-16	SB-16
Sample Name:	S-12609-080317-SK-033	S-12609-080317-SK-034	S-12609-080317-SK-035
Sample Date:	08/03/2017	08/03/2017	08/03/2017
Depth:	18-18 ft BGS	7.5-7.5 ft BGS	12.5-12.5 ft BGS

Parameters	Unit			
Volatile Organic Compounds				
Bromomethane (Methyl bromide)	µg/kg	400 U	320 U	390 U
Carbon disulfide	µg/kg	400 U	320 U	390 U
Carbon tetrachloride	µg/kg	400 U	320 U	390 U
Chlorobenzene	µg/kg	400 U	320 U	390 U
Chloroethane	µg/kg	400 U	320 U	390 U
Chloroform (Trichloromethane)	µg/kg	400 U	320 U	390 U
Chloromethane (Methyl chloride)	µg/kg	400 U	320 U	390 U
cis-1,2-Dichloroethene	µg/kg	400 U	320 U	390 U
cis-1,3-Dichloropropene	µg/kg	400 U	320 U	390 U
Cyclohexane	µg/kg	800 U	630 U	770 U
Dibromochloromethane	µg/kg	400 U	320 U	390 U
Dichlorodifluoromethane (CFC-12)	µg/kg	400 U	320 U	390 U
Ethylbenzene	µg/kg	400 U	320 U	390 U
Isopropyl benzene	µg/kg	400 U	320 U	390 U
Methyl acetate	µg/kg	2000 U	1600 U	1900 U
Methyl cyclohexane	µg/kg	800 U	630 U	770 U
Methyl tert butyl ether (MTBE)	µg/kg	400 U	320 U	390 U
Methylene chloride	µg/kg	400 U	320 U	390 U
Styrene	µg/kg	400 U	320 U	390 U
Tetrachloroethene	µg/kg	400 U	320 U	390 U
Toluene	µg/kg	400 U	320 U	390 U
trans-1,2-Dichloroethene	µg/kg	400 U	320 U	390 U
trans-1,3-Dichloropropene	µg/kg	400 U	320 U	390 U
Trichloroethene	µg/kg	400 U	320 U	390 U
Trichlorofluoromethane (CFC-11)	µg/kg	400 U	320 U	390 U
Trifluorotrchloroethane (CFC-113)	µg/kg	400 U	320 U	390 U
Vinyl chloride	µg/kg	400 U	320 U	390 U
Xylenes (total)	µg/kg	800 U	630 U	770 U

**Analytical Results Summary
Leachated Shutdown HPT Sampling
RACER-Toledo
Toledo, Ohio
July-August 2017**

Location ID:	SB-15	SB-16	SB-16
Sample Name:	S-12609-080317-SK-033	S-12609-080317-SK-034	S-12609-080317-SK-035
Sample Date:	08/03/2017	08/03/2017	08/03/2017
Depth:	18-18 ft BGS	7.5-7.5 ft BGS	12.5-12.5 ft BGS

Parameters**Unit****Pesticides/PCBs**

Aroclor-1016 (PCB-1016)	µg/kg	1300 U	57 U	66 U
Aroclor-1221 (PCB-1221)	µg/kg	1300 U	57 U	66 U
Aroclor-1232 (PCB-1232)	µg/kg	1300 U	57 U	66 U
Aroclor-1242 (PCB-1242)	µg/kg	1300 U	57 U	66 U
Aroclor-1248 (PCB-1248)	µg/kg	14000	57 U	66 U
Aroclor-1254 (PCB-1254)	µg/kg	1300 U	57 U	66 U
Aroclor-1260 (PCB-1260)	µg/kg	1300 U	57 U	66 U
Total PCBs	µg/kg	14000	0	0

Notes:

U - Not detected at the associated reporting limit
 UJ - Not detected; associated reporting limit is estimated
 J - Estimated concentration
 -- - Not applicable

Analytical Results Summary
Leachated Shutdown HPT Sampling
RACER-Toledo
Toledo, Ohio
July-August 2017

Location ID:	SB-17	SB-17	SB-18
Sample Name:	S-12609-080317-SK-036	S-12609-080317-SK-037	S-12609-080317-SK-038
Sample Date:	08/03/2017	08/03/2017	08/03/2017
Depth:	10-10 ft BGS	15-15 ft BGS	7-7 ft BGS

Parameters	Unit			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	330 U	360 U	350 U
1,1,2,2-Tetrachloroethane	µg/kg	330 U	360 U	350 U
1,1,2-Trichloroethane	µg/kg	330 U	360 U	350 U
1,1-Dichloroethane	µg/kg	330 U	360 U	350 U
1,1-Dichloroethene	µg/kg	330 U	360 U	350 U
1,2,4-Trichlorobenzene	µg/kg	330 U	360 U	350 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	660 U	720 U	710 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	330 U	360 U	350 U
1,2-Dichlorobenzene	µg/kg	330 U	360 U	350 U
1,2-Dichloroethane	µg/kg	330 U	360 U	350 U
1,2-Dichloropropane	µg/kg	330 U	360 U	350 U
1,3-Dichlorobenzene	µg/kg	330 U	360 U	350 U
1,4-Dichlorobenzene	µg/kg	330 U	360 U	350 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	1300 U	1400 U	1400 U
2-Hexanone	µg/kg	1300 U	1400 U	1400 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	1300 U	1400 U	1400 U
Acetone	µg/kg	1300 U	1400 U	1400 U
Benzene	µg/kg	330 U	360 U	350 U
Bromodichloromethane	µg/kg	330 U	360 U	350 U
Bromoform	µg/kg	330 U	360 U	350 U

Analytical Results Summary
Leachated Shutdown HPT Sampling
RACER-Toledo
Toledo, Ohio
July-August 2017

Location ID:	SB-17	SB-17	SB-18
Sample Name:	S-12609-080317-SK-036	S-12609-080317-SK-037	S-12609-080317-SK-038
Sample Date:	08/03/2017	08/03/2017	08/03/2017
Depth:	10-10 ft BGS	15-15 ft BGS	7-7 ft BGS

Parameters	Unit			
Volatile Organic Compounds				
Bromomethane (Methyl bromide)	µg/kg	330 U	360 U	350 U
Carbon disulfide	µg/kg	330 U	360 U	350 U
Carbon tetrachloride	µg/kg	330 U	360 U	350 U
Chlorobenzene	µg/kg	330 U	360 U	350 U
Chloroethane	µg/kg	330 U	360 U	350 U
Chloroform (Trichloromethane)	µg/kg	330 U	360 U	350 U
Chloromethane (Methyl chloride)	µg/kg	330 U	360 U	350 U
cis-1,2-Dichloroethene	µg/kg	330 U	360 U	350 U
cis-1,3-Dichloropropene	µg/kg	330 U	360 U	350 U
Cyclohexane	µg/kg	660 U	720 U	710 U
Dibromochloromethane	µg/kg	330 U	360 U	350 U
Dichlorodifluoromethane (CFC-12)	µg/kg	330 U	360 U	350 U
Ethylbenzene	µg/kg	330 U	360 U	350 U
Isopropyl benzene	µg/kg	330 U	360 U	350 U
Methyl acetate	µg/kg	1600 U	1800 U	1800 U
Methyl cyclohexane	µg/kg	660 U	720 U	710 U
Methyl tert butyl ether (MTBE)	µg/kg	330 U	360 U	350 U
Methylene chloride	µg/kg	330 U	360 U	350 U
Styrene	µg/kg	330 U	360 U	350 U
Tetrachloroethene	µg/kg	330 U	360 U	350 U
Toluene	µg/kg	330 U	360 U	350 U
trans-1,2-Dichloroethene	µg/kg	330 U	360 U	350 U
trans-1,3-Dichloropropene	µg/kg	330 U	360 U	350 U
Trichloroethene	µg/kg	330 U	360 U	350 U
Trichlorofluoromethane (CFC-11)	µg/kg	330 U	360 U	350 U
Trifluorotrichloroethane (CFC-113)	µg/kg	330 U	360 U	350 U
Vinyl chloride	µg/kg	330 U	360 U	350 U
Xylenes (total)	µg/kg	660 U	720 U	710 U

Table 2A

Analytical Results Summary
Leachated Shutdown HPT Sampling
RACER-Toledo
Toledo, Ohio
July-August 2017

Location ID:	SB-17	SB-17	SB-18
Sample Name:	S-12609-080317-SK-036	S-12609-080317-SK-037	S-12609-080317-SK-038
Sample Date:	08/03/2017	08/03/2017	08/03/2017
Depth:	10-10 ft BGS	15-15 ft BGS	7-7 ft BGS

Parameters**Unit****Pesticides/PCBs**

Aroclor-1016 (PCB-1016)	µg/kg	64 U	63 U	60 U
Aroclor-1221 (PCB-1221)	µg/kg	64 U	63 U	60 U
Aroclor-1232 (PCB-1232)	µg/kg	64 U	63 U	60 U
Aroclor-1242 (PCB-1242)	µg/kg	64 U	63 U	60 U
Aroclor-1248 (PCB-1248)	µg/kg	64 U	63 U	60 U
Aroclor-1254 (PCB-1254)	µg/kg	64 U	63 U	60 U
Aroclor-1260 (PCB-1260)	µg/kg	64 U	63 U	60 U
Total PCBs	µg/kg	0	0	0

Notes:

U - Not detected at the associated reporting limit
 UJ - Not detected; associated reporting limit is estimated
 J - Estimated concentration
 -- - Not applicable

Analytical Results Summary
Leachated Shutdown HPT Sampling
RACER-Toledo
Toledo, Ohio
July-August 2017

Location ID:	SB-18	SB-19	SB-19
Sample Name:	S-12609-080317-SK-039	S-12609-080317-SK-040	S-12609-080317-SK-041
Sample Date:	08/03/2017	08/03/2017	08/03/2017
Depth:	12.6-12.6 ft BGS	7.5-7.5 ft BGS	15-15 ft BGS

Parameters	Unit			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	330 U	410 U	430 U
1,1,2,2-Tetrachloroethane	µg/kg	330 U	410 U	430 U
1,1,2-Trichloroethane	µg/kg	330 U	410 U	430 U
1,1-Dichloroethane	µg/kg	330 U	410 U	430 U
1,1-Dichloroethene	µg/kg	330 U	410 U	430 U
1,2,4-Trichlorobenzene	µg/kg	330 U	410 U	430 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	660 U	820 U	860 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	330 U	410 U	430 U
1,2-Dichlorobenzene	µg/kg	330 U	410 U	430 U
1,2-Dichloroethane	µg/kg	330 U	410 U	430 U
1,2-Dichloropropane	µg/kg	330 U	410 U	430 U
1,3-Dichlorobenzene	µg/kg	330 U	410 U	430 U
1,4-Dichlorobenzene	µg/kg	330 U	410 U	430 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	1300 U	1600 U	1700 U
2-Hexanone	µg/kg	1300 U	1600 U	1700 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	1300 U	1600 U	1700 U
Acetone	µg/kg	1300 U	1600 U	1700 U
Benzene	µg/kg	330 U	410 U	430 U
Bromodichloromethane	µg/kg	330 U	410 U	430 U
Bromoform	µg/kg	330 U	410 U	430 U

Analytical Results Summary
Leachated Shutdown HPT Sampling
RACER-Toledo
Toledo, Ohio
July-August 2017

Location ID:	SB-18	SB-19	SB-19
Sample Name:	S-12609-080317-SK-039	S-12609-080317-SK-040	S-12609-080317-SK-041
Sample Date:	08/03/2017	08/03/2017	08/03/2017
Depth:	12.6-12.6 ft BGS	7.5-7.5 ft BGS	15-15 ft BGS

Parameters	Unit			
Volatile Organic Compounds				
Bromomethane (Methyl bromide)	µg/kg	330 U	410 U	430 U
Carbon disulfide	µg/kg	330 U	410 U	430 U
Carbon tetrachloride	µg/kg	330 U	410 U	430 U
Chlorobenzene	µg/kg	330 U	410 U	430 U
Chloroethane	µg/kg	330 U	410 U	430 U
Chloroform (Trichloromethane)	µg/kg	330 U	410 U	430 U
Chloromethane (Methyl chloride)	µg/kg	330 U	410 U	430 U
cis-1,2-Dichloroethene	µg/kg	330 U	410 U	430 U
cis-1,3-Dichloropropene	µg/kg	330 U	410 U	430 U
Cyclohexane	µg/kg	660 U	820 U	860 U
Dibromochloromethane	µg/kg	330 U	410 U	430 U
Dichlorodifluoromethane (CFC-12)	µg/kg	330 U	410 U	430 U
Ethylbenzene	µg/kg	330 U	410 U	430 U
Isopropyl benzene	µg/kg	330 U	410 U	430 U
Methyl acetate	µg/kg	1700 U	2000 U	2200 U
Methyl cyclohexane	µg/kg	660 U	820 U	860 U
Methyl tert butyl ether (MTBE)	µg/kg	330 U	410 U	430 U
Methylene chloride	µg/kg	330 U	410 U	430 U
Styrene	µg/kg	330 U	410 U	430 U
Tetrachloroethene	µg/kg	330 U	410 U	430 U
Toluene	µg/kg	330 U	410 U	430 U
trans-1,2-Dichloroethene	µg/kg	330 U	410 U	430 U
trans-1,3-Dichloropropene	µg/kg	330 U	410 U	430 U
Trichloroethene	µg/kg	330 U	410 U	430 U
Trichlorofluoromethane (CFC-11)	µg/kg	330 U	410 U	430 U
Trifluorotrchloroethane (CFC-113)	µg/kg	330 U	410 U	430 U
Vinyl chloride	µg/kg	330 U	410 U	430 U
Xylenes (total)	µg/kg	660 U	820 U	860 U

Analytical Results Summary
Leachated Shutdown HPT Sampling
RACER-Toledo
Toledo, Ohio
July-August 2017

Location ID:	SB-18	SB-19	SB-19
Sample Name:	S-12609-080317-SK-039	S-12609-080317-SK-040	S-12609-080317-SK-041
Sample Date:	08/03/2017	08/03/2017	08/03/2017
Depth:	12.6-12.6 ft BGS	7.5-7.5 ft BGS	15-15 ft BGS

Parameters**Unit****Pesticides/PCBs**

Aroclor-1016 (PCB-1016)	µg/kg	62 U	69 U	69 U
Aroclor-1221 (PCB-1221)	µg/kg	62 U	69 U	69 U
Aroclor-1232 (PCB-1232)	µg/kg	62 U	69 U	69 U
Aroclor-1242 (PCB-1242)	µg/kg	62 U	69 U	69 U
Aroclor-1248 (PCB-1248)	µg/kg	62 U	69 U	69 U
Aroclor-1254 (PCB-1254)	µg/kg	62 U	69 U	69 U
Aroclor-1260 (PCB-1260)	µg/kg	62 U	69 U	69 U
Total PCBs	µg/kg	0	0	0

Notes:

U - Not detected at the associated reporting limit
 UJ - Not detected; associated reporting limit is estimated
 J - Estimated concentration
 -- - Not applicable

Analytical Results Summary
Leachated Shutdown HPT Sampling
RACER-Toledo
Toledo, Ohio
July-August 2017

Location ID:	SB-02	SB-02	SB-03
Sample Name:	S-12609-073117-SK-003	S-12609-073117-SK-004	S-12609-073117-SK-005
Sample Date:	07/31/2017	07/31/2017	07/31/2017
Depth:	4.5-4.5 ft BGS	10-10 ft BGS	5-5 ft BGS

Parameters	Unit			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	270 UJ	380 UJ	330 UJ
1,1,2,2-Tetrachloroethane	µg/kg	270 UJ	380 UJ	330 UJ
1,1,2-Trichloroethane	µg/kg	270 UJ	380 UJ	330 UJ
1,1-Dichloroethane	µg/kg	270 UJ	380 UJ	330 UJ
1,1-Dichloroethene	µg/kg	270 UJ	380 UJ	330 UJ
1,2,4-Trichlorobenzene	µg/kg	270 UJ	380 UJ	330 UJ
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	550 UJ	750 UJ	670 UJ
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	270 UJ	380 UJ	330 UJ
1,2-Dichlorobenzene	µg/kg	270 UJ	380 UJ	330 UJ
1,2-Dichloroethane	µg/kg	270 UJ	380 UJ	330 UJ
1,2-Dichloropropane	µg/kg	270 UJ	380 UJ	330 UJ
1,3-Dichlorobenzene	µg/kg	270 UJ	380 UJ	330 UJ
1,4-Dichlorobenzene	µg/kg	270 UJ	380 UJ	330 UJ
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	1100 UJ	1500 UJ	1300 UJ
2-Hexanone	µg/kg	1100 UJ	1500 UJ	1300 UJ
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	1100 UJ	1500 UJ	1300 UJ
Acetone	µg/kg	1100 UJ	1500 UJ	1300 UJ
Benzene	µg/kg	270 UJ	380 UJ	330 UJ
Bromodichloromethane	µg/kg	270 UJ	380 UJ	330 UJ
Bromoform	µg/kg	270 UJ	380 UJ	330 UJ

Analytical Results Summary
Leachated Shutdown HPT Sampling
RACER-Toledo
Toledo, Ohio
July-August 2017

Location ID:	SB-02	SB-02	SB-03
Sample Name:	S-12609-073117-SK-003	S-12609-073117-SK-004	S-12609-073117-SK-005
Sample Date:	07/31/2017	07/31/2017	07/31/2017
Depth:	4.5-4.5 ft BGS	10-10 ft BGS	5-5 ft BGS

Parameters	Unit			
Volatile Organic Compounds				
Bromomethane (Methyl bromide)	µg/kg	270 UJ	380 UJ	330 UJ
Carbon disulfide	µg/kg	270 UJ	380 UJ	330 UJ
Carbon tetrachloride	µg/kg	270 UJ	380 UJ	330 UJ
Chlorobenzene	µg/kg	270 UJ	380 UJ	330 UJ
Chloroethane	µg/kg	270 UJ	380 UJ	330 UJ
Chloroform (Trichloromethane)	µg/kg	270 UJ	380 UJ	330 UJ
Chloromethane (Methyl chloride)	µg/kg	270 UJ	380 UJ	330 UJ
cis-1,2-Dichloroethene	µg/kg	270 UJ	380 UJ	330 UJ
cis-1,3-Dichloropropene	µg/kg	270 UJ	380 UJ	330 UJ
Cyclohexane	µg/kg	550 UJ	750 UJ	670 UJ
Dibromochloromethane	µg/kg	270 UJ	380 UJ	330 UJ
Dichlorodifluoromethane (CFC-12)	µg/kg	270 UJ	380 UJ	330 UJ
Ethylbenzene	µg/kg	270 UJ	380 UJ	330 UJ
Isopropyl benzene	µg/kg	270 UJ	380 UJ	330 UJ
Methyl acetate	µg/kg	120 J	1900 UJ	1700 UJ
Methyl cyclohexane	µg/kg	550 UJ	750 UJ	670 UJ
Methyl tert butyl ether (MTBE)	µg/kg	270 UJ	380 UJ	330 UJ
Methylene chloride	µg/kg	270 UJ	380 UJ	330 UJ
Styrene	µg/kg	270 UJ	380 UJ	330 UJ
Tetrachloroethene	µg/kg	270 UJ	380 UJ	330 UJ
Toluene	µg/kg	270 UJ	380 UJ	330 UJ
trans-1,2-Dichloroethene	µg/kg	270 UJ	380 UJ	330 UJ
trans-1,3-Dichloropropene	µg/kg	270 UJ	380 UJ	330 UJ
Trichloroethene	µg/kg	270 UJ	380 UJ	330 UJ
Trichlorofluoromethane (CFC-11)	µg/kg	270 UJ	380 UJ	330 UJ
Trifluorotrchloroethane (CFC-113)	µg/kg	270 UJ	380 UJ	330 UJ
Vinyl chloride	µg/kg	270 UJ	380 UJ	330 UJ
Xylenes (total)	µg/kg	550 UJ	750 UJ	670 UJ

**Analytical Results Summary
Leachated Shutdown HPT Sampling
RACER-Toledo
Toledo, Ohio
July-August 2017**

Location ID:	SB-02	SB-02	SB-03
Sample Name:	S-12609-073117-SK-003	S-12609-073117-SK-004	S-12609-073117-SK-005
Sample Date:	07/31/2017	07/31/2017	07/31/2017
Depth:	4.5-4.5 ft BGS	10-10 ft BGS	5-5 ft BGS

Parameters**Unit****Pesticides/PCBs**

Aroclor-1016 (PCB-1016)	µg/kg	60 U	67 U	59 U
Aroclor-1221 (PCB-1221)	µg/kg	60 U	67 U	59 U
Aroclor-1232 (PCB-1232)	µg/kg	60 U	67 U	59 U
Aroclor-1242 (PCB-1242)	µg/kg	60 U	67 U	59 U
Aroclor-1248 (PCB-1248)	µg/kg	60 U	67 U	59 U
Aroclor-1254 (PCB-1254)	µg/kg	60 U	67 U	59 U
Aroclor-1260 (PCB-1260)	µg/kg	60 U	67 U	59 U
Total PCBs	µg/kg	0	0	0

Notes:

U - Not detected at the associated reporting limit

UJ - Not detected; associated reporting limit is estimated

J - Estimated concentration

-- - Not applicable

Analytical Results Summary
Leachated Shutdown HPT Sampling
RACER-Toledo
Toledo, Ohio
July-August 2017

Location ID:	SB-03	SB-04	SB-04
Sample Name:	S-12609-073117-SK-006	S-12609-073117-SK-007	S-12609-073117-SK-008
Sample Date:	07/31/2017	07/31/2017	07/31/2017
Depth:	7.5-7.5 ft BGS	2.5-2.5 ft BGS	10-10 ft BGS

Parameters	Unit			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	330 UJ	360 UJ	340 UJ
1,1,2,2-Tetrachloroethane	µg/kg	330 UJ	360 UJ	340 UJ
1,1,2-Trichloroethane	µg/kg	330 UJ	360 UJ	340 UJ
1,1-Dichloroethane	µg/kg	330 UJ	360 UJ	340 UJ
1,1-Dichloroethene	µg/kg	330 UJ	360 UJ	340 UJ
1,2,4-Trichlorobenzene	µg/kg	330 UJ	360 UJ	340 UJ
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	650 UJ	720 UJ	690 UJ
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	330 UJ	360 UJ	340 UJ
1,2-Dichlorobenzene	µg/kg	330 UJ	360 UJ	340 UJ
1,2-Dichloroethane	µg/kg	330 UJ	360 UJ	340 UJ
1,2-Dichloropropane	µg/kg	330 UJ	360 UJ	340 UJ
1,3-Dichlorobenzene	µg/kg	330 UJ	360 UJ	340 UJ
1,4-Dichlorobenzene	µg/kg	330 UJ	360 UJ	340 UJ
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	1300 UJ	1400 UJ	1400 UJ
2-Hexanone	µg/kg	1300 UJ	1400 UJ	1400 UJ
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	1300 UJ	1400 UJ	1400 UJ
Acetone	µg/kg	1300 UJ	1400 UJ	1400 UJ
Benzene	µg/kg	330 UJ	360 UJ	340 UJ
Bromodichloromethane	µg/kg	330 UJ	360 UJ	340 UJ
Bromoform	µg/kg	330 UJ	360 UJ	340 UJ

Analytical Results Summary
Leachated Shutdown HPT Sampling
RACER-Toledo
Toledo, Ohio
July-August 2017

Location ID:	SB-03	SB-04	SB-04
Sample Name:	S-12609-073117-SK-006	S-12609-073117-SK-007	S-12609-073117-SK-008
Sample Date:	07/31/2017	07/31/2017	07/31/2017
Depth:	7.5-7.5 ft BGS	2.5-2.5 ft BGS	10-10 ft BGS

Parameters	Unit			
Volatile Organic Compounds				
Bromomethane (Methyl bromide)	µg/kg	330 UJ	360 UJ	340 UJ
Carbon disulfide	µg/kg	330 UJ	360 UJ	340 UJ
Carbon tetrachloride	µg/kg	330 UJ	360 UJ	340 UJ
Chlorobenzene	µg/kg	330 UJ	360 UJ	340 UJ
Chloroethane	µg/kg	330 UJ	360 UJ	340 UJ
Chloroform (Trichloromethane)	µg/kg	330 UJ	360 UJ	340 UJ
Chloromethane (Methyl chloride)	µg/kg	330 UJ	360 UJ	340 UJ
cis-1,2-Dichloroethene	µg/kg	330 UJ	360 UJ	340 UJ
cis-1,3-Dichloropropene	µg/kg	330 UJ	360 UJ	340 UJ
Cyclohexane	µg/kg	650 UJ	720 UJ	690 UJ
Dibromochloromethane	µg/kg	330 UJ	360 UJ	340 UJ
Dichlorodifluoromethane (CFC-12)	µg/kg	330 UJ	360 UJ	340 UJ
Ethylbenzene	µg/kg	330 UJ	360 UJ	340 UJ
Isopropyl benzene	µg/kg	330 UJ	360 UJ	340 UJ
Methyl acetate	µg/kg	1600 UJ	120 J	120 J
Methyl cyclohexane	µg/kg	650 UJ	720 UJ	690 UJ
Methyl tert butyl ether (MTBE)	µg/kg	330 UJ	360 UJ	340 UJ
Methylene chloride	µg/kg	330 UJ	360 UJ	340 UJ
Styrene	µg/kg	330 UJ	360 UJ	340 UJ
Tetrachloroethene	µg/kg	330 UJ	360 UJ	340 UJ
Toluene	µg/kg	330 UJ	360 UJ	340 UJ
trans-1,2-Dichloroethene	µg/kg	330 UJ	360 UJ	340 UJ
trans-1,3-Dichloropropene	µg/kg	330 UJ	360 UJ	340 UJ
Trichloroethene	µg/kg	330 UJ	360 UJ	340 UJ
Trichlorofluoromethane (CFC-11)	µg/kg	330 UJ	360 UJ	340 UJ
Trifluorotrachloroethane (CFC-113)	µg/kg	330 UJ	360 UJ	340 UJ
Vinyl chloride	µg/kg	330 UJ	360 UJ	340 UJ
Xylenes (total)	µg/kg	650 UJ	720 UJ	690 UJ

**Analytical Results Summary
Leachated Shutdown HPT Sampling
RACER-Toledo
Toledo, Ohio
July-August 2017**

Location ID:	SB-03	SB-04	SB-04
Sample Name:	S-12609-073117-SK-006	S-12609-073117-SK-007	S-12609-073117-SK-008
Sample Date:	07/31/2017	07/31/2017	07/31/2017
Depth:	7.5-7.5 ft BGS	2.5-2.5 ft BGS	10-10 ft BGS

Parameters**Unit****Pesticides/PCBs**

Aroclor-1016 (PCB-1016)	µg/kg	64 U	65 U	63 U
Aroclor-1221 (PCB-1221)	µg/kg	64 U	65 U	63 U
Aroclor-1232 (PCB-1232)	µg/kg	64 U	65 U	63 U
Aroclor-1242 (PCB-1242)	µg/kg	64 U	65 U	63 U
Aroclor-1248 (PCB-1248)	µg/kg	64 U	65 U	63 U
Aroclor-1254 (PCB-1254)	µg/kg	64 U	65 U	63 U
Aroclor-1260 (PCB-1260)	µg/kg	64 U	65 U	63 U
Total PCBs	µg/kg	0	0	0

Notes:

U - Not detected at the associated reporting limit

UJ - Not detected; associated reporting limit is estimated

J - Estimated concentration

-- - Not applicable

Analytical Results Summary
Leachated Shutdown HPT Sampling
RACER-Toledo
Toledo, Ohio
July-August 2017

Parameters	Unit	Location ID:	SB-05	SB-05	SB-05
		Sample Name:	S-12609-080117-SK-009	S-12609-080117-SK-010	S-12609-080117-SK-011
		Sample Date:	08/01/2017	08/01/2017	08/01/2017
		Depth:	4.5-4.5 ft BGS	15-15 ft BGS	15-15 ft BGS
					Duplicate
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/kg		410 U	400 U	390 U
1,1,2,2-Tetrachloroethane	µg/kg		410 U	400 U	390 U
1,1,2-Trichloroethane	µg/kg		410 U	400 U	390 U
1,1-Dichloroethane	µg/kg		410 U	400 U	390 U
1,1-Dichloroethene	µg/kg		410 U	400 U	390 U
1,2,4-Trichlorobenzene	µg/kg		410 U	400 U	390 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg		820 U	810 U	770 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg		410 U	400 U	390 U
1,2-Dichlorobenzene	µg/kg		410 U	400 U	390 U
1,2-Dichloroethane	µg/kg		410 U	400 U	390 U
1,2-Dichloropropane	µg/kg		410 U	400 U	390 U
1,3-Dichlorobenzene	µg/kg		410 U	400 U	390 U
1,4-Dichlorobenzene	µg/kg		410 U	400 U	390 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg		1600 U	1600 U	1500 U
2-Hexanone	µg/kg		1600 U	1600 U	1500 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg		1600 U	1600 U	1500 U
Acetone	µg/kg		1600 U	1600 U	1500 U
Benzene	µg/kg		410 U	400 U	390 U
Bromodichloromethane	µg/kg		410 U	400 U	390 U
Bromoform	µg/kg		410 U	400 U	390 U

Analytical Results Summary
Leachated Shutdown HPT Sampling
RACER-Toledo
Toledo, Ohio
July-August 2017

Parameters	Unit	Location ID:	SB-05	SB-05	SB-05
		Sample Name:	S-12609-080117-SK-009	S-12609-080117-SK-010	S-12609-080117-SK-011
		Sample Date:	08/01/2017	08/01/2017	08/01/2017
		Depth:	4.5-4.5 ft BGS	15-15 ft BGS	15-15 ft BGS Duplicate
Volatile Organic Compounds					
Bromomethane (Methyl bromide)	µg/kg		410 U	400 U	390 U
Carbon disulfide	µg/kg		410 U	400 U	390 U
Carbon tetrachloride	µg/kg		410 U	400 U	390 U
Chlorobenzene	µg/kg		410 U	400 U	390 U
Chloroethane	µg/kg		410 U	400 U	390 U
Chloroform (Trichloromethane)	µg/kg		410 U	400 U	390 U
Chloromethane (Methyl chloride)	µg/kg		410 U	400 U	390 U
cis-1,2-Dichloroethene	µg/kg		410 U	400 U	390 U
cis-1,3-Dichloropropene	µg/kg		410 U	400 U	390 U
Cyclohexane	µg/kg		820 U	810 U	770 U
Dibromochloromethane	µg/kg		410 U	400 U	390 U
Dichlorodifluoromethane (CFC-12)	µg/kg		410 U	400 U	390 U
Ethylbenzene	µg/kg		410 U	400 U	390 U
Isopropyl benzene	µg/kg		410 U	400 U	390 U
Methyl acetate	µg/kg		2100 U	2000 U	1900 U
Methyl cyclohexane	µg/kg		820 U	810 U	770 U
Methyl tert butyl ether (MTBE)	µg/kg		410 U	400 U	390 U
Methylene chloride	µg/kg		410 U	400 U	390 U
Styrene	µg/kg		410 U	400 U	390 U
Tetrachloroethene	µg/kg		410 U	400 U	390 U
Toluene	µg/kg		410 U	400 U	390 U
trans-1,2-Dichloroethene	µg/kg		410 U	400 U	390 U
trans-1,3-Dichloropropene	µg/kg		410 U	400 U	390 U
Trichloroethene	µg/kg		410 U	400 U	390 U
Trichlorofluoromethane (CFC-11)	µg/kg		410 U	400 U	390 U
Trifluorotrachloroethane (CFC-113)	µg/kg		410 U	400 U	390 U
Vinyl chloride	µg/kg		410 U	400 U	390 U
Xylenes (total)	µg/kg		820 U	810 U	770 U

**Analytical Results Summary
Leachated Shutdown HPT Sampling
RACER-Toledo
Toledo, Ohio
July-August 2017**

Location ID:	SB-05	SB-05	SB-05
Sample Name:	S-12609-080117-SK-009	S-12609-080117-SK-010	S-12609-080117-SK-011
Sample Date:	08/01/2017	08/01/2017	08/01/2017
Depth:	4.5-4.5 ft BGS	15-15 ft BGS	15-15 ft BGS Duplicate

Parameters**Unit****Pesticides/PCBs**

Aroclor-1016 (PCB-1016)	µg/kg	65 U	64 U	64 U
Aroclor-1221 (PCB-1221)	µg/kg	65 U	64 U	64 U
Aroclor-1232 (PCB-1232)	µg/kg	65 U	64 U	64 U
Aroclor-1242 (PCB-1242)	µg/kg	65 U	64 U	64 U
Aroclor-1248 (PCB-1248)	µg/kg	65 U	64 U	64 U
Aroclor-1254 (PCB-1254)	µg/kg	65 U	64 U	64 U
Aroclor-1260 (PCB-1260)	µg/kg	65 U	64 U	64 U
Total PCBs	µg/kg	0	0	0

Notes:

U - Not detected at the associated reporting limit

UJ - Not detected; associated reporting limit is estimated

J - Estimated concentration

-- - Not applicable

Analytical Results Summary
Leachated Shutdown HPT Sampling
RACER-Toledo
Toledo, Ohio
July-August 2017

Location ID:	SB-06	SB-06	SB-07
Sample Name:	S-12609-080117-SK-012	S-12609-080117-SK-013	S-12609-080117-SK-014
Sample Date:	08/01/2017	08/01/2017	08/01/2017
Depth:	7.5-7.5 ft BGS	20-20 ft BGS	10-10 ft BGS

Parameters	Unit			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	350 U	340 U	360 U
1,1,2,2-Tetrachloroethane	µg/kg	350 U	340 U	360 U
1,1,2-Trichloroethane	µg/kg	350 U	340 U	360 U
1,1-Dichloroethane	µg/kg	350 U	340 U	360 U
1,1-Dichloroethene	µg/kg	350 U	340 U	360 U
1,2,4-Trichlorobenzene	µg/kg	350 U	340 U	360 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	700 U	680 U	730 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	350 U	340 U	360 U
1,2-Dichlorobenzene	µg/kg	350 U	340 U	360 U
1,2-Dichloroethane	µg/kg	350 U	340 U	360 U
1,2-Dichloropropane	µg/kg	350 U	340 U	360 U
1,3-Dichlorobenzene	µg/kg	350 U	340 U	360 U
1,4-Dichlorobenzene	µg/kg	350 U	340 U	360 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	1400 U	1400 U	1500 U
2-Hexanone	µg/kg	1400 U	1400 U	1500 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	1400 U	1400 U	1500 U
Acetone	µg/kg	1400 U	1400 U	1500 U
Benzene	µg/kg	350 U	340 U	360 U
Bromodichloromethane	µg/kg	350 U	340 U	360 U
Bromoform	µg/kg	350 U	340 U	360 U

Analytical Results Summary
Leachated Shutdown HPT Sampling
RACER-Toledo
Toledo, Ohio
July-August 2017

Location ID:	SB-06	SB-06	SB-07
Sample Name:	S-12609-080117-SK-012	S-12609-080117-SK-013	S-12609-080117-SK-014
Sample Date:	08/01/2017	08/01/2017	08/01/2017
Depth:	7.5-7.5 ft BGS	20-20 ft BGS	10-10 ft BGS

Parameters	Unit			
Volatile Organic Compounds				
Bromomethane (Methyl bromide)	µg/kg	350 U	340 U	360 U
Carbon disulfide	µg/kg	350 U	340 U	360 U
Carbon tetrachloride	µg/kg	350 U	340 U	360 U
Chlorobenzene	µg/kg	350 U	340 U	360 U
Chloroethane	µg/kg	350 U	340 U	360 U
Chloroform (Trichloromethane)	µg/kg	350 U	340 U	360 U
Chloromethane (Methyl chloride)	µg/kg	350 U	340 U	360 U
cis-1,2-Dichloroethene	µg/kg	350 U	340 U	250 J
cis-1,3-Dichloropropene	µg/kg	350 U	340 U	360 U
Cyclohexane	µg/kg	700 U	680 U	730 U
Dibromochloromethane	µg/kg	350 U	340 U	360 U
Dichlorodifluoromethane (CFC-12)	µg/kg	350 U	340 U	360 U
Ethylbenzene	µg/kg	350 U	340 U	360 U
Isopropyl benzene	µg/kg	350 U	340 U	360 U
Methyl acetate	µg/kg	1700 U	1700 U	1800 U
Methyl cyclohexane	µg/kg	700 U	680 U	730 U
Methyl tert butyl ether (MTBE)	µg/kg	350 U	340 U	360 U
Methylene chloride	µg/kg	350 U	340 U	360 U
Styrene	µg/kg	350 U	340 U	360 U
Tetrachloroethene	µg/kg	350 U	340 U	360 U
Toluene	µg/kg	350 U	340 U	360 U
trans-1,2-Dichloroethene	µg/kg	350 U	340 U	360 U
trans-1,3-Dichloropropene	µg/kg	350 U	340 U	360 U
Trichloroethene	µg/kg	350 U	340 U	360 U
Trichlorofluoromethane (CFC-11)	µg/kg	350 U	340 U	360 U
Trifluorotrchloroethane (CFC-113)	µg/kg	350 U	340 U	360 U
Vinyl chloride	µg/kg	350 U	340 U	360 U
Xylenes (total)	µg/kg	700 U	680 U	730 U

**Analytical Results Summary
Leachated Shutdown HPT Sampling
RACER-Toledo
Toledo, Ohio
July-August 2017**

Location ID:	SB-06	SB-06	SB-07
Sample Name:	S-12609-080117-SK-012	S-12609-080117-SK-013	S-12609-080117-SK-014
Sample Date:	08/01/2017	08/01/2017	08/01/2017
Depth:	7.5-7.5 ft BGS	20-20 ft BGS	10-10 ft BGS

Parameters**Unit****Pesticides/PCBs**

Aroclor-1016 (PCB-1016)	µg/kg	64 U	66 U	63 U
Aroclor-1221 (PCB-1221)	µg/kg	64 U	66 U	63 U
Aroclor-1232 (PCB-1232)	µg/kg	64 U	66 U	63 U
Aroclor-1242 (PCB-1242)	µg/kg	64 U	66 U	63 U
Aroclor-1248 (PCB-1248)	µg/kg	64 U	66 U	63 U
Aroclor-1254 (PCB-1254)	µg/kg	64 U	66 U	63 U
Aroclor-1260 (PCB-1260)	µg/kg	64 U	66 U	63 U
Total PCBs	µg/kg	0	0	0

Notes:

U - Not detected at the associated reporting limit

UJ - Not detected; associated reporting limit is estimated

J - Estimated concentration

-- - Not applicable

Analytical Results Summary
Leachated Shutdown HPT Sampling
RACER-Toledo
Toledo, Ohio
July-August 2017

Location ID:	SB-07	SB-08	SB-08
Sample Name:	S-12609-080117-SK-015	S-12609-080117-SK-016	S-12609-080117-SK-017
Sample Date:	08/01/2017	08/01/2017	08/01/2017
Depth:	15-15 ft BGS	2.5-2.5 ft BGS	10-10 ft BGS

Parameters**Unit****Volatile Organic Compounds**

1,1,1-Trichloroethane	µg/kg	360 U	310 U	330 U
1,1,2,2-Tetrachloroethane	µg/kg	360 U	310 U	330 U
1,1,2-Trichloroethane	µg/kg	360 U	310 U	330 U
1,1-Dichloroethane	µg/kg	360 U	310 U	330 U
1,1-Dichloroethene	µg/kg	360 U	310 U	330 U
1,2,4-Trichlorobenzene	µg/kg	360 U	310 U	330 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	720 U	610 U	670 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	360 U	310 U	330 U
1,2-Dichlorobenzene	µg/kg	360 U	310 U	330 U
1,2-Dichloroethane	µg/kg	360 U	310 U	330 U
1,2-Dichloropropane	µg/kg	360 U	310 U	330 U
1,3-Dichlorobenzene	µg/kg	360 U	310 U	330 U
1,4-Dichlorobenzene	µg/kg	360 U	310 U	330 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	1400 U	1200 U	1300 U
2-Hexanone	µg/kg	1400 U	1200 U	1300 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	1400 U	1200 U	1300 U
Acetone	µg/kg	1400 U	1200 U	1300 U
Benzene	µg/kg	360 U	310 U	330 U
Bromodichloromethane	µg/kg	360 U	310 U	330 U
Bromoform	µg/kg	360 U	310 U	330 U

Analytical Results Summary
Leachated Shutdown HPT Sampling
RACER-Toledo
Toledo, Ohio
July-August 2017

Location ID:	SB-07	SB-08	SB-08
Sample Name:	S-12609-080117-SK-015	S-12609-080117-SK-016	S-12609-080117-SK-017
Sample Date:	08/01/2017	08/01/2017	08/01/2017
Depth:	15-15 ft BGS	2.5-2.5 ft BGS	10-10 ft BGS

Parameters	Unit			
Volatile Organic Compounds				
Bromomethane (Methyl bromide)	µg/kg	360 U	310 U	330 U
Carbon disulfide	µg/kg	360 U	310 U	330 U
Carbon tetrachloride	µg/kg	360 U	310 U	330 U
Chlorobenzene	µg/kg	360 U	310 U	330 U
Chloroethane	µg/kg	360 U	310 U	330 U
Chloroform (Trichloromethane)	µg/kg	360 U	310 U	330 U
Chloromethane (Methyl chloride)	µg/kg	360 U	310 U	330 U
cis-1,2-Dichloroethene	µg/kg	890	310 U	330 U
cis-1,3-Dichloropropene	µg/kg	360 U	310 U	330 U
Cyclohexane	µg/kg	720 U	610 U	670 U
Dibromochloromethane	µg/kg	360 U	310 U	330 U
Dichlorodifluoromethane (CFC-12)	µg/kg	360 U	310 U	330 U
Ethylbenzene	µg/kg	360 U	310 U	330 U
Isopropyl benzene	µg/kg	360 U	310 U	330 U
Methyl acetate	µg/kg	1800 U	1500 U	1700 U
Methyl cyclohexane	µg/kg	720 U	610 U	670 U
Methyl tert butyl ether (MTBE)	µg/kg	360 U	310 U	330 U
Methylene chloride	µg/kg	360 U	310 U	330 U
Styrene	µg/kg	360 U	310 U	330 U
Tetrachloroethene	µg/kg	360 U	310 U	330 U
Toluene	µg/kg	360 U	310 U	330 U
trans-1,2-Dichloroethene	µg/kg	360 U	310 U	330 U
trans-1,3-Dichloropropene	µg/kg	360 U	310 U	330 U
Trichloroethene	µg/kg	360 U	310 U	330 U
Trichlorofluoromethane (CFC-11)	µg/kg	360 U	310 U	330 U
Trifluorotrchloroethane (CFC-113)	µg/kg	360 U	310 U	330 U
Vinyl chloride	µg/kg	170 J	310 U	330 U
Xylenes (total)	µg/kg	720 U	610 U	670 U

Analytical Results Summary
Leachated Shutdown HPT Sampling
RACER-Toledo
Toledo, Ohio
July-August 2017

Location ID:	SB-07	SB-08	SB-08
Sample Name:	S-12609-080117-SK-015	S-12609-080117-SK-016	S-12609-080117-SK-017
Sample Date:	08/01/2017	08/01/2017	08/01/2017
Depth:	15-15 ft BGS	2.5-2.5 ft BGS	10-10 ft BGS

Parameters**Unit****Pesticides/PCBs**

Aroclor-1016 (PCB-1016)	µg/kg	65 U	59 U	64 U
Aroclor-1221 (PCB-1221)	µg/kg	65 U	59 U	64 U
Aroclor-1232 (PCB-1232)	µg/kg	65 U	59 U	64 U
Aroclor-1242 (PCB-1242)	µg/kg	65 U	59 U	64 U
Aroclor-1248 (PCB-1248)	µg/kg	65 U	59 U	64 U
Aroclor-1254 (PCB-1254)	µg/kg	65 U	59 U	64 U
Aroclor-1260 (PCB-1260)	µg/kg	65 U	59 U	64 U
Total PCBs	µg/kg	0	0	0

Notes:

U - Not detected at the associated reporting limit

UJ - Not detected; associated reporting limit is estimated

J - Estimated concentration

-- - Not applicable

Analytical Results Summary
Leachated Shutdown HPT Sampling
RACER-Toledo
Toledo, Ohio
July-August 2017

Location ID:	SB-09	SB-09	Trip Blank	Trip Blank
Sample Name:	S-12609-080117-SK-018	S-12609-080117-SK-019	TB-12609-080117-SK	TB-12609-080417-SK
Sample Date:	08/01/2017	08/01/2017	08/01/2017	08/04/2017
Depth:	2.5-2.5 ft BGS	15-15 ft BGS	--	--

Parameters	Unit				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/kg	360 U	330 U	250 U	250 U
1,1,2,2-Tetrachloroethane	µg/kg	360 U	330 U	250 U	250 U
1,1,2-Trichloroethane	µg/kg	360 U	330 U	250 U	250 U
1,1-Dichloroethane	µg/kg	360 U	330 U	250 U	250 U
1,1-Dichloroethene	µg/kg	360 U	330 U	250 U	250 U
1,2,4-Trichlorobenzene	µg/kg	360 U	330 U	250 U	250 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	720 U	670 U	500 U	500 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	360 U	330 U	250 U	250 U
1,2-Dichlorobenzene	µg/kg	360 U	330 U	250 U	250 U
1,2-Dichloroethane	µg/kg	360 U	330 U	250 U	250 U
1,2-Dichloropropane	µg/kg	360 U	330 U	250 U	250 U
1,3-Dichlorobenzene	µg/kg	360 U	330 U	250 U	250 U
1,4-Dichlorobenzene	µg/kg	360 U	330 U	250 U	250 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	1400 U	1300 U	1000 U	1000 U
2-Hexanone	µg/kg	1400 U	1300 U	1000 U	1000 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	1400 U	1300 U	1000 U	1000 U
Acetone	µg/kg	1400 U	1300 U	1000 U	240 J
Benzene	µg/kg	360 U	330 U	250 U	250 U
Bromodichloromethane	µg/kg	360 U	330 U	250 U	250 U
Bromoform	µg/kg	360 U	330 U	250 U	250 U

Analytical Results Summary
Leachated Shutdown HPT Sampling
RACER-Toledo
Toledo, Ohio
July-August 2017

Location ID:	SB-09	SB-09	Trip Blank	Trip Blank
Sample Name:	S-12609-080117-SK-018	S-12609-080117-SK-019	TB-12609-080117-SK	TB-12609-080417-SK
Sample Date:	08/01/2017	08/01/2017	08/01/2017	08/04/2017
Depth:	2.5-2.5 ft BGS	15-15 ft BGS	--	--

Parameters	Unit				
Volatile Organic Compounds					
Bromomethane (Methyl bromide)	µg/kg	360 U	330 U	250 U	250 U
Carbon disulfide	µg/kg	360 U	330 U	250 U	250 U
Carbon tetrachloride	µg/kg	360 U	330 U	250 U	250 U
Chlorobenzene	µg/kg	360 U	330 U	250 U	250 U
Chloroethane	µg/kg	360 U	330 U	250 U	250 U
Chloroform (Trichloromethane)	µg/kg	360 U	330 U	250 U	250 U
Chloromethane (Methyl chloride)	µg/kg	360 U	330 U	250 U	250 U
cis-1,2-Dichloroethene	µg/kg	360 U	330 U	250 U	250 U
cis-1,3-Dichloropropene	µg/kg	360 U	330 U	250 U	250 U
Cyclohexane	µg/kg	720 U	670 U	500 U	500 U
Dibromochloromethane	µg/kg	360 U	330 U	250 U	250 U
Dichlorodifluoromethane (CFC-12)	µg/kg	360 U	330 U	250 U	250 U
Ethylbenzene	µg/kg	360 U	330 U	250 U	250 U
Isopropyl benzene	µg/kg	360 U	330 U	250 U	250 U
Methyl acetate	µg/kg	1800 U	1700 U	1300 U	1300 U
Methyl cyclohexane	µg/kg	720 U	670 U	500 U	500 U
Methyl tert butyl ether (MTBE)	µg/kg	360 U	330 U	250 U	250 U
Methylene chloride	µg/kg	360 U	330 U	250 U	160 J
Styrene	µg/kg	360 U	330 U	250 U	250 U
Tetrachloroethene	µg/kg	360 U	330 U	250 U	250 U
Toluene	µg/kg	360 U	330 U	250 U	250 U
trans-1,2-Dichloroethene	µg/kg	360 U	330 U	250 U	250 U
trans-1,3-Dichloropropene	µg/kg	360 U	330 U	250 U	250 U
Trichloroethene	µg/kg	360 U	330 U	250 U	250 U
Trichlorofluoromethane (CFC-11)	µg/kg	360 U	330 U	250 U	250 U
Trifluorotrichloroethane (CFC-113)	µg/kg	360 U	330 U	250 U	250 U
Vinyl chloride	µg/kg	360 U	330 U	250 U	250 U
Xylenes (total)	µg/kg	720 U	670 U	500 U	500 U

Analytical Results Summary
Leachated Shutdown HPT Sampling
RACER-Toledo
Toledo, Ohio
July-August 2017

Location ID:	SB-09	SB-09	Trip Blank	Trip Blank
Sample Name:	S-12609-080117-SK-018	S-12609-080117-SK-019	TB-12609-080117-SK	TB-12609-080417-SK
Sample Date:	08/01/2017	08/01/2017	08/01/2017	08/04/2017
Depth:	2.5-2.5 ft BGS	15-15 ft BGS	--	--

Parameters**Unit****Pesticides/PCBs**

Aroclor-1016 (PCB-1016)	µg/kg	62 U	68 U	--	--
Aroclor-1221 (PCB-1221)	µg/kg	62 U	68 U	--	--
Aroclor-1232 (PCB-1232)	µg/kg	62 U	68 U	--	--
Aroclor-1242 (PCB-1242)	µg/kg	62 U	68 U	--	--
Aroclor-1248 (PCB-1248)	µg/kg	62 U	68 U	--	--
Aroclor-1254 (PCB-1254)	µg/kg	62 U	68 U	--	--
Aroclor-1260 (PCB-1260)	µg/kg	62 U	68 U	--	--
Total PCBs	µg/kg	0	0	--	--

Notes:

U - Not detected at the associated reporting limit

UJ - Not detected; associated reporting limit is estimated

J - Estimated concentration

-- - Not applicable

Table 2B

Analytical Results Summary
Leachated Shutdown HPT Sampling
RACER-Toledo
Toledo, Ohio
July-August 2017

Location ID:	SB-11	SB-13	SB-14	Trip Blank
Sample Name:	GW-12609-080417-SK-003	GW-12609-080317-SK-002	GW-12609-080317-SK-001	TB-12609-080417-SK
Sample Date:	08/04/2017	08/03/2017	08/03/2017	08/04/2017

Parameters	Unit				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	µg/L	0.36 J	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	2.1 J
Benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	13	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U

Table 2B

Analytical Results Summary
Leachated Shutdown HPT Sampling
RACER-Toledo
Toledo, Ohio
July-August 2017

Location ID:	SB-11	SB-13	SB-14	Trip Blank
Sample Name:	GW-12609-080417-SK-003	GW-12609-080317-SK-002	GW-12609-080317-SK-001	TB-12609-080417-SK
Sample Date:	08/04/2017	08/03/2017	08/03/2017	08/04/2017

Parameters	Unit				
Cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Isopropyl benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	µg/L	10 U	10 U	10 U	10 U
Methyl cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	µg/L	1.0 U	1.0 U	0.28 J	1.0 U
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	1.4	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Trifluorotrchloroethane (CFC-113)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U

Notes:

J - Estimated concentration

U - Not detected at the associated reporting limit

Table 3
Analytical Methods
Leachate Shutdown HPT Sampling
RACER-Toledo
Toledo, Ohio
July-August 2017

Parameter	Method	Matrix	Preservation	Holding Time	
				Collection to Extraction (Days)	Collection or Extraction to Analysis (Days)
VOCs	SW-846 8260B	Soil	Cool to 0-6 °C	2 days to freeze or prep	14
		Water	HCl to pH<2; Cool to 0-6 °C	-	14
PCBs	SW-846 8082A	Soil	Cool to 0-6 °C	14	40

Notes:

PCBs - Polychlorinated Biphenyls
VOCs - Volatile Organic Compounds
- - Not applicable

Method References:

SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods,"
SW-846, 3rd Edition, September 1986 (with all subsequent revisions)

Table 4

**Qualified Sample Results Due to Holding Time Exceedance
Leachate Shutdown HPT Sampling
RACER-Toledo
Toledo, Ohio
July-August 2017**

Parameter	Sample ID	Holding Time (days)	Holding Time Criteria (Freeze or Prep) (days)	Analyte	Qualified Sample Results	Units
VOCs	S-12609-073117-SK-001	3	2	All Analytes	J/UJ	µg/Kg
	S-12609-073117-SK-002				J/UJ	µg/Kg
	S-12609-073117-SK-003				J/UJ	µg/Kg
	S-12609-073117-SK-004				J/UJ	µg/Kg
	S-12609-073117-SK-005				J/UJ	µg/Kg
	S-12609-073117-SK-006				J/UJ	µg/Kg
	S-12609-073117-SK-007				J/UJ	µg/Kg
	S-12609-073117-SK-008				J/UJ	µg/Kg
	S-12609-080217-SK-022				J/UJ	µg/Kg
	S-12609-080217-SK-024				J/UJ	µg/Kg
	S-12609-080217-SK-023				J/UJ	µg/Kg
	S-12609-080217-SK-025				J/UJ	µg/Kg
	S-12609-080217-SK-027				J/UJ	µg/Kg
	S-12609-080217-SK-026				J/UJ	µg/Kg
	S-12609-080217-SK-030				J/UJ	µg/Kg
	S-12609-080217-SK-028				J/UJ	µg/Kg
	S-12609-080217-SK-029				J/UJ	µg/Kg

Notes:

- J - Estimated concentration
- UJ - Not detected; associated reporting limit is estimated
- VOCs - Volatile Organic Compounds

Table 5

Qualified Sample Results Due to Analyte Concentrations in the Method Blanks
Leachate Shutdown HPT Sampling
RACER-Toledo
Toledo, Ohio
July-August 2017

Parameter	Analyte	Analysis Date (mm/dd/yyyy)	Blank Result	Sample ID	Original Result	Qualified Result	Units
VOCs	Methylene chloride	08/10/2017	176 J	S-12609-080217-SK-022	200 J	330 U	µg/Kg
				S-12609-080217-SK-023	260 J	430 U	µg/Kg
				S-12609-080217-SK-024	210 J	320 U	µg/Kg
				S-12609-080217-SK-025	210 J	350 U	µg/Kg
				S-12609-080217-SK-026	240 J	350 U	µg/Kg
				S-12609-080217-SK-027	230 J	360 U	µg/Kg
				S-12609-080217-SK-028	250 J	350 U	µg/Kg
				S-12609-080217-SK-029	220 J	320 U	µg/Kg
				S-12609-080217-SK-030	270 J	400 U	µg/Kg
				S-12609-080317-SK-031	230 J	340 U	µg/Kg
				S-12609-080317-SK-032	180 J	300 U	µg/Kg
				S-12609-080317-SK-033	260 J	400 U	µg/Kg
				S-12609-080317-SK-034	210 J	320 U	µg/Kg
				S-12609-080317-SK-035	260 J	390 U	µg/Kg
				S-12609-080317-SK-036	220 J	330 U	µg/Kg
				S-12609-080317-SK-037	240 J	360 U	µg/Kg
				S-12609-080317-SK-038	240 J	350 U	µg/Kg
				S-12609-080317-SK-039	240 J	330 U	µg/Kg
				S-12609-080317-SK-040	270 J	410 U	µg/Kg
				S-12609-080317-SK-041	280 J	430 U	µg/Kg

Notes:

- J - Estimated concentration
U - Not detected at the associated reporting limit
VOCs - Volatile Organic Compounds

Table 6

**Qualified Sample Data Due to Outlying of Surrogate Recoveries
Leachate Shutdown HPT Sampling
RACER-Toledo
Toledo, Ohio
July-August 2017**

Parameter	Sample ID	Surrogate	Surrogate % Recovery	Control Limits % Recovery	Analyte	Qualified Result	Units
VOCs	S-12609-073117-SK-002	p-Bromofluorobenzene	152	58-142	Methyl acetate	120 J	µg/Kg
		Toluene-D8	141	61-137			
VOCs	S-12609-073117-SK-003	1,2-Dichloroethane-d4	143	64-144	Methyl acetate	120 J	µg/Kg
		p-Bromofluorobenzene	146	58-142			
VOCs	S-12609-073117-SK-007	1,2-Dichloroethane-d4	153	64-144	Methyl acetate	150 J	µg/Kg
		p-Bromofluorobenzene	148	58-142			
		Toluene-D8	144	61-137			
VOCs	S-12609-080217-SK-027	p-Bromofluorobenzene	152	58-142	Methyl acetate	120 J	µg/Kg

Notes:

- J - Estimated concentration
VOCs - Volatile Organic Compounds

Table 7

Qualified Sample Data Due to Analyte Concentrations in the Trip Blanks
Leachate Shutdown HPT Sampling
RACER-Toledo
Toledo, Ohio
July-August 2017

Parameter	Blank Date (mm/dd/yyyy)	Analyte	Blank Result	Associated Sample ID	Original Result	Qualified Result	Units
VOCs	08/04/2017	Acetone	240 J	S-12609-080217-SK-022	430 J	1300 U	µg/Kg
				S-12609-080217-SK-024	210 J	1300 U	µg/Kg
				S-12609-080217-SK-027	450 J	1500 U	µg/Kg
				S-12609-080217-SK-028	370 J	1400 U	µg/Kg
				S-12609-080217-SK-029	130 J	1300 U	µg/Kg
				S-12609-080217-SK-030	470 J	1600 U	µg/Kg
				S-12609-080317-SK-032	180 J	1200 U	µg/Kg
				S-12609-080317-SK-033	170 J	1600 U	µg/Kg
				S-12609-080317-SK-035	1100 J	1500 U	µg/Kg
				S-12609-080317-SK-036	180 J	1300 U	µg/Kg
				S-12609-080317-SK-037	250 J	1400 U	µg/Kg
				S-12609-080317-SK-039	180 J	1300 U	µg/Kg
VOCs	08/04/2017	Acetone	2.1 J	GW-12609-080317-SK-001	7.5 J	10 U	µg/L
				GW-12609-080317-SK-002	1.8 J	10 U	µg/L
				GW-12609-080417-SK-003	2.9 J	10 U	µg/L

Notes:

J - Estimated concentration

U - Not detected at the associated reporting limit

VOCs - Volatile Organic Compounds

www.ghd.com

