
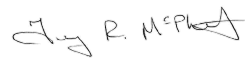


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**To:** Alan Noell, PhD, PE

**From:** Garrett Leque, LG; Terry McPhetridge, LG, LHG  

**Date:** December 20, 2022

**File:** 6694-002-05

**Subject:** Interim Action Completion Report Addendum – Cul-de-Sac Soil Sampling Results

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**INTRODUCTION AND BACKGROUND**

This Interim Action Completion Report Addendum documents the results of six soil samples collected at the “cul-de-sac” area of the Go East site for chemical analysis. The Go East site location is shown in Figure 1.

The site contains a former landfill that is being cleaned up under the Model Toxics Control Act (MTCA; Ecology Facility Site Identification [FSID] 2708) and closed under Washington Administrative Code (WAC) 173-350-400 (limited purpose landfill regulation). An interim action was completed in 2021 and consisted of consolidating the “wedge area” of the landfill into the main landfill mass as documented in the report titled Final Interim Action Completion Report – Go East Landfill Corp Site (GeoEngineers 2021).

The site is covered by Washington State’s Construction Stormwater General Permit (CSGP; Permit number WAR306901). Construction stormwater was temporarily detained in an unlined stormwater pond in the future cul-de-sac area of the site from the fall of 2021 until the summer of 2022. The approximate location of the temporary ponded water is shown in Figure 2.

Stormwater was pumped from the pond through a treatment system prior to discharge. Treatment was necessary per the CSGP primarily to reduce turbidity (water cloudiness). Treatment was also performed due to known or suspected site contaminants such as petroleum hydrocarbons, metals, and polycyclic aromatic hydrocarbons (PAHs). The Washington State Department of Ecology (Ecology) requested that six soil samples be collected from the detention pond after it was permanently dry in the summer of 2022. The purpose of the soil sampling was to confirm that construction stormwater did not contaminate the soils at the pond/future cul-de-sac area. The cul-de-sac area will be paved in the future.

**METHODS**

The approximate area where stormwater was temporarily ponded is shown in Figure 2<sup>1</sup>. The pond was dry by late July 2022 and the pond will no longer be used for stormwater detention. Soil samples were collected from six locations on August 3, 2022. The six locations are labeled “Soil-1-220803” through “Soil-6-220803” and shown in Figure 2. Figure 2 also includes the prior soil sampling locations completed during the Interim Action (“IAEX” sample locations).

The six soil samples were collected from the base of the stormwater pond/future cul-de-sac area. A decontaminated steel trowel was used to collect the soil samples. Each soil sample was collected between

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<sup>1</sup> The pond changed in size over time depending on weather conditions. The area outlined in Figure 2 is considered to be the approximate “average” extent of the pond throughout the majority of the project based on review of drone photography on multiple different days.

0 to 0.5 feet below ground surface (bgs). Sampling was performed in general accordance with soil sampling procedures specified in the Interim Action Work Plan (GeoEngineers 2020). Samples were delivered in a cooler with ice to OnSite Environmental, Inc. in Redmond, Washington. Samples were analyzed for petroleum hydrocarbons (diesel- and lube-oil-range), metals, and PAHs.

## RESULTS

There was no field screening evidence of soil contamination at the sampling locations on the day of sampling. Chemical analytical results are summarized in Table 1 and the laboratory reports are attached as Appendix A. Petroleum hydrocarbons, metals, and PAHs were generally either not detected or were detected at concentrations less than the respective soil screening levels. The exceptions to this included nickel concentrations that exceeded the screening level of 48 milligrams per kilogram (mg/kg) in four samples, and one chromium detection slightly above the screening level of 48 mg/kg.

The concentrations of nickel ranged from 42 to 64 mg/kg, which are below the protective concentration of 1,600 mg/kg for the direct contact and 130 mg/kg for the leaching-to-groundwater exposure pathways (Ecology 2022). The concentrations of nickel exceeded the 30 mg/kg protective concentration for the terrestrial ecology exposure pathway, and in four samples, exceeded the 48 mg/kg Puget Sound Basin background concentration for nickel (Ecology 1994). Nickel appears to be elevated in soil generally in the project area as discussed in the Interim Action Completion Report (GeoEngineers 2021). The concentrations of nickel in confirmation soil samples IAEX-59-5, IAEX-55-3, and IAEX-54-4 ranged from 68 to 74 mg/kg. As shown in Figure 4 (GeoEngineers 2021), these samples were collected beyond the waste limits near the cul-de-sac area in May and June 2021, prior to any stormwater storage. Nickel exceedances are therefore unlikely a result of the stormwater that was temporarily detained. No further action is recommended regarding the nickel exceedances.

The concentrations of chromium ranged from 23 to 51 mg/kg, which are below the protective concentration of 120,000 mg/kg for the direct contact and 480,000 mg/kg leaching-to-groundwater exposure pathway for trivalent chromium. Two soil samples exceeded the 42 mg/kg protective concentration for the terrestrial ecology exposure pathway, but only one soil sample exceeded the 48 mg/kg Puget Sound Basin background concentration for chromium (Ecology 1994). The single slight exceedance of chromium is also likely related to background soils in this area and not related to the stormwater that was temporarily detained. A total of 67 soil samples have been analyzed for chromium at the site between the Interim Action and this sampling event combined. Only three soil samples exceeded the chromium screening level of 48 mg/kg out of the 67 soil samples which equals an exceedance frequency of 4.4 percent. The chromium concentrations of the three samples that exceeded the screening level were 49 mg/kg (IAEX-39-20), 57 mg/kg (IAEX-59-5), and 51 mg/kg (SOIL-3-220803). The concentrations of chromium are statistically compliant with the soil cleanup level based on the Puget Sound Basin background, in accordance with WAC 173-340-740(7)(e), because the soil chromium exceedance frequency is less than 10 percent, and the soil sample chromium concentrations are less than two times the screening level (i.e., less than 96 mg/kg). No further action is recommended regarding the chromium exceedance.

## DISCUSSION AND CONCLUSIONS

This memorandum documents the analytical results of the six soil samples collected from the proposed the cul-de-sac area at the Go East Site. Samples were collected from the base of a temporary stormwater detention pond. The purpose of the sampling was to confirm that the temporarily detained construction stormwater did not contaminate the soils beneath the pond. The temporarily detained stormwater did not impact the soils beneath the pond based on our field screening and chemical analytical results. Therefore, no further action is recommended.

## REFERENCES

Ecology, 1994, Natural Background Soil Metals Concentrations in Washington State, Ecology Publication No. 94-115, October 1994.

Ecology, 2022, CLARC data tables and other technical information, updated July 2022, <https://ecology.wa.gov/Regulations-Permits/Guidance-technical-assistance/Contamination-clean-up-tools/CLARC/Data-tables>.

GeoEngineers, Inc., 2020. *Interim Action Work Plan, Go East Corp Landfill Site Everett, Washington, Ecology Agreed Order No. DE 18121*. August 10, 2020.

GeoEngineers, Inc., 2021. *Final Interim Action Completion Report – Go East Landfill Corp Site, 4430 108<sup>th</sup> Street SE, Everett, Washington*. November 23, 2021.

We trust the information provided in the memo meets your needs at this time. Please call Garrett Leque at 253.312.7958 with any questions.

### Attachments:

Figure 1. Vicinity Map

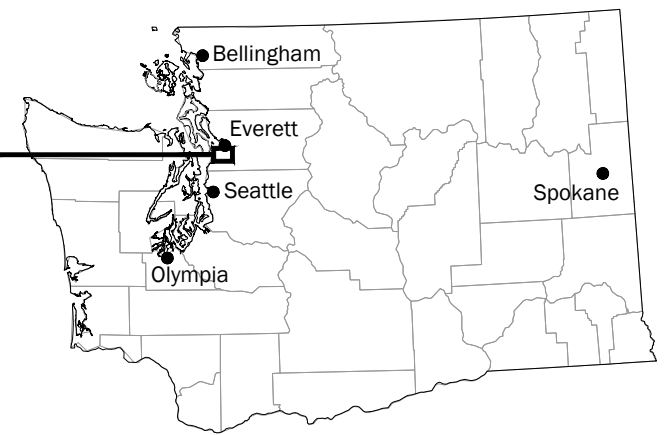
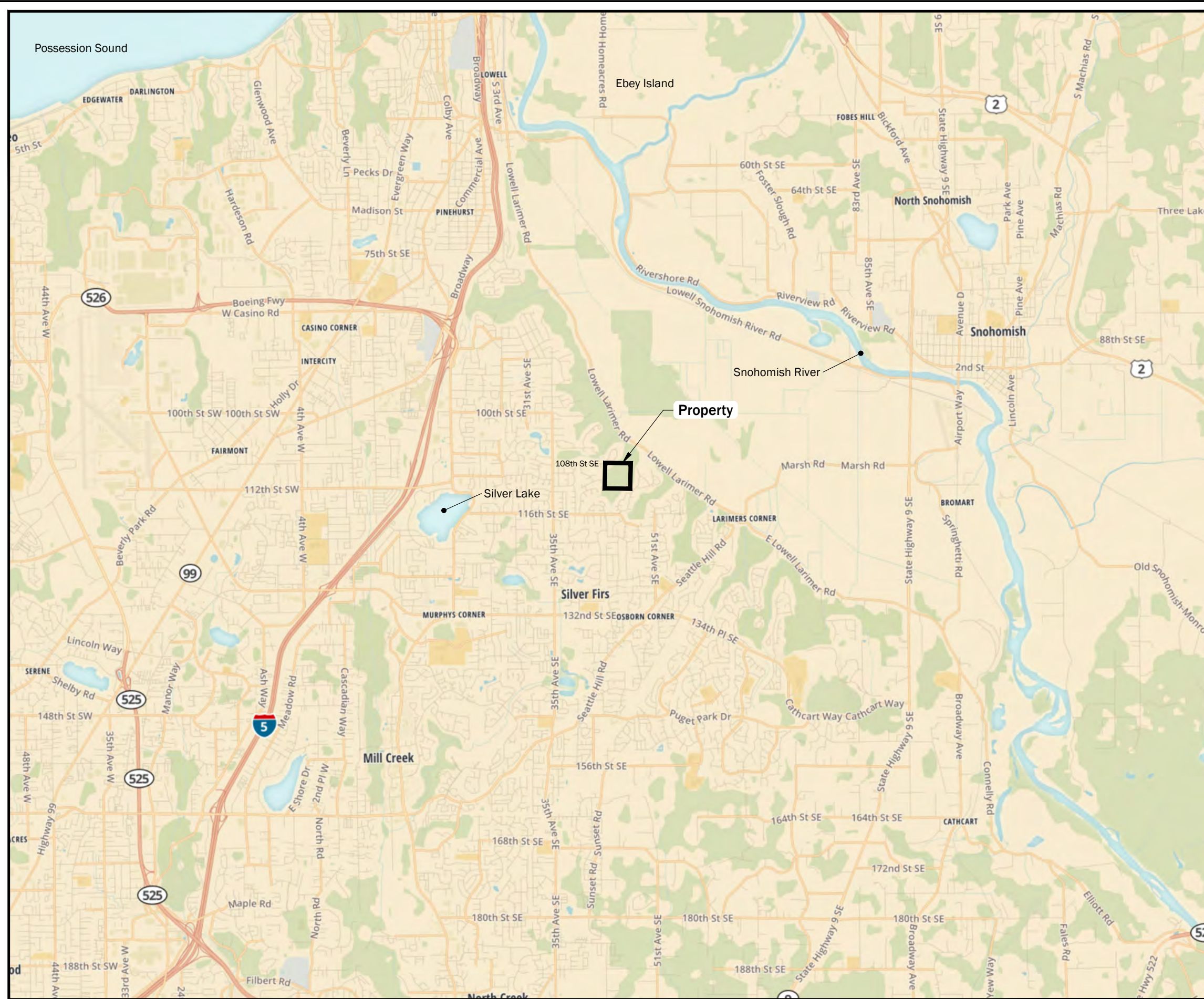
Figure 2. Cul de Sac Soil Sampling Locations

Table 1. Cul de Sac Soil Sampling Results

Appendix A. Laboratory Analytical Data

Disclaimer: Any electronic form, facsimile or hard copy of the original document (email, text, table, and/or figure), if provided, and any attachments are only a copy of the original document. The original document is stored by GeoEngineers, Inc. and will serve as the official document of record.

\\geoengineers.com\WAN\Projects\616694002\CAD\03\Geotech\669400203\_F01\_Vicinity Map.dwg TAB:F01 Date Exported: 01/31/20 - 11:52 by mwwoods



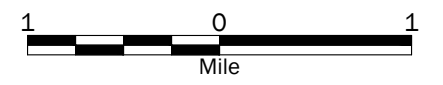
Not To Scale

**Notes:**

1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

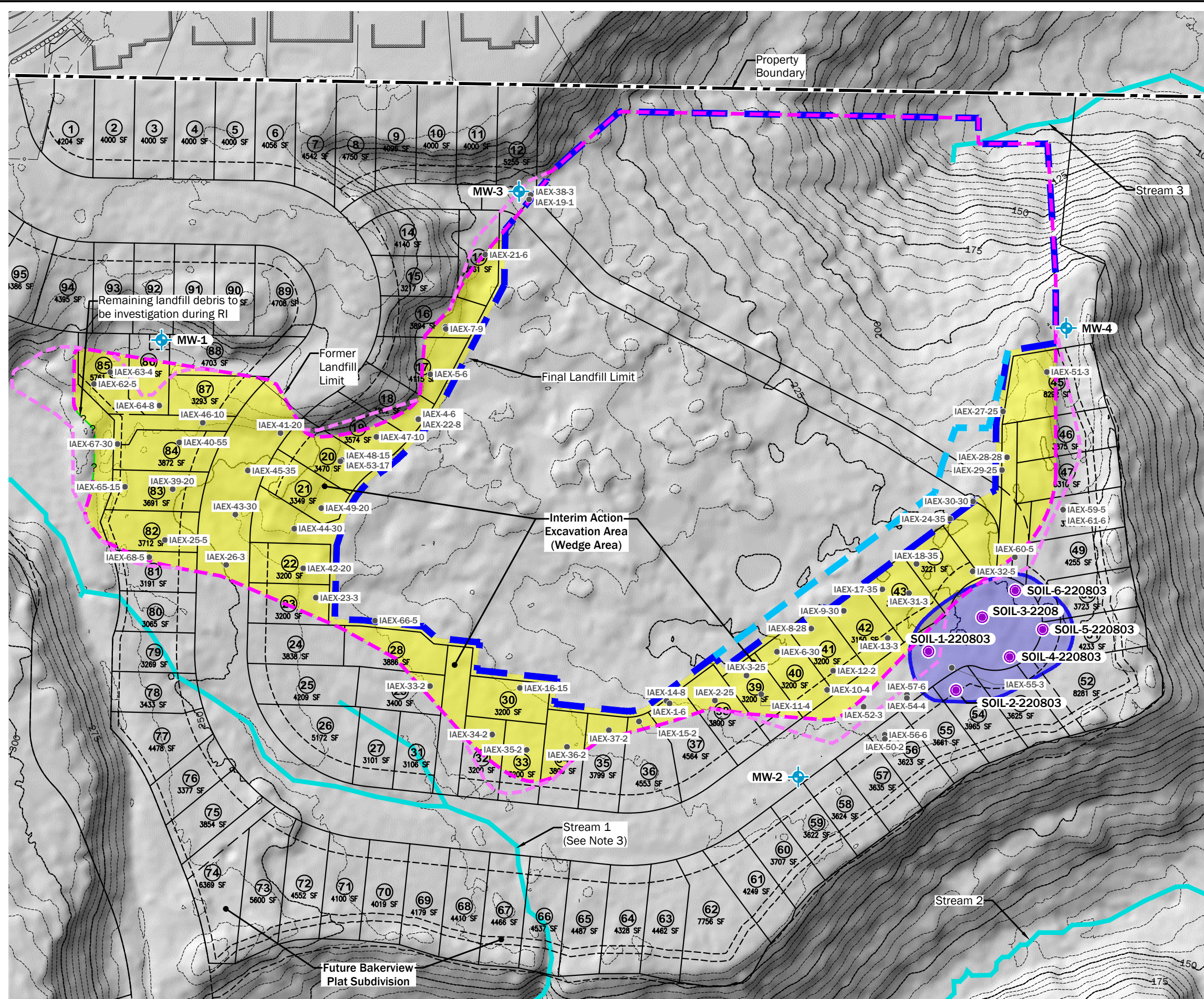
Data Source: Mapbox Open Street Map, 2016.

Projection: NAD 1983 UTM Zone 10N



<b>Vicinity Map</b>	
Go East Corp Landfill Site Everett, Washington	
	<b>Figure 1</b>

P:\66694002\CAD\05\Cul de sac sampling report addendum\6669400203\_F02\_Cul de Sac Soil Sampling Locations.dwg TAB:F02 Date Exported: 09/22/22 - 11:34 by mwwoods



**Legend**

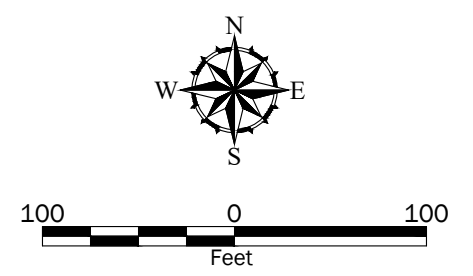
- Property Boundary
- Interim Action Excavation Area (Wedge Area)
- Former Landfill Limit - Anticipated
- Former Landfill Limit - Actual
- Final Landfill Limit - Anticipated
- Final Landfill Limit - Actual
- Confirmation Soil Sampling Location
- Groundwater Monitoring Well (AESI, 2009)
- Approximate Location of Temporarily Pondered Stormwater
- Cul de Sac Soil Sampling Location

**Notes:**

1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.
3. As of report preparation (August 2021), the stream course has been modified.

Data Source: Property boundary survey from PACE Engineers, dated 1/27/2020.  
 Lidar image and elevation contours from Puget Sound Lidar Consortium dated 2013.

Projection: HPGN (HARN) Washington State Planes, North Zone, US Foot



<b>Cul de Sac Soil Sampling Locations</b>	
Go East Corp Landfill Site Everett, Washington	
	<b>Figure 2</b>

**Table 1**  
**Cul de Sac Soil Sampling Analytical Results**  
 Go East Corp Landfill Site  
 Everett, Washington

	<b>Location ID</b>	SOIL-1	SOIL-2	SOIL-3	SOIL-4	SOIL-5	SOIL-6
	<b>Sample ID</b>	SOIL-1-220803	SOIL-2-220803	SOIL-3-220803	SOIL-4-220803	SOIL-5-220803	SOIL-6-220803
	<b>Sample Date</b>	8/3/2022	8/3/2022	8/3/2022	8/3/2022	8/3/2022	8/3/2022
	<b>Start Depth</b>	0	0	0	0	0	0
	<b>End Depth</b>	0.5	0.5	0.5	0.5	0.5	0.5
	<b>Depth Unit</b>	feet bgs	feet bgs	feet bgs	feet bgs	feet bgs	feet bgs
<b>Analyte</b>	<b>Soil Screening Level<sup>1</sup></b>						
<b>Petroleum Hydrocarbons (mg/kg)</b>							
Diesel-range hydrocarbons	NE	28 U	30 U	27 U	28 U	27 U	26 U
Lube oil-range hydrocarbons	NE	<b>66</b>	59 U	54 U	56 U	54 U	53 U
Sum of DRO+ORO	260	<b>66</b>	59 U	54 U	56 U	54 U	53 U
<b>Metals (mg/kg)</b>							
Arsenic	20	11 U	12 U	11 U	11 U	11 U	11 U
Cadmium	0.80	0.55 U	0.59 U	0.54 U	0.56 U	0.54 U	0.53 U
Chromium	48	<b>26</b>	<b>44</b>	<b>51</b>	<b>29</b>	<b>32</b>	<b>23</b>
Copper	36	<b>12</b>	<b>28</b>	<b>21</b>	<b>14</b>	<b>14</b>	<b>11</b>
Iron	56,000	<b>17,000</b>	<b>21,000</b>	<b>20,000</b>	<b>17,000</b>	<b>19,000</b>	<b>16,000</b>
Lead	50	<b>6.8</b>	5.9 U	5.4 U	5.6 U	5.4 U	5.3 U
Magnesium	NE	<b>7,000</b>	<b>8,400</b>	<b>8,100</b>	<b>6,300</b>	<b>6,700</b>	<b>6,400</b>
Manganese	3,700	<b>320</b>	<b>350</b>	<b>380</b>	<b>340</b>	<b>320</b>	<b>280</b>
Mercury	0.070	<b>0.034</b>	<b>0.030</b>	<b>0.021</b>	<b>0.027</b>	0.022 U	0.021 U
Nickel	48	<b>54</b>	<b>64</b>	<b>54</b>	<b>48</b>	<b>46</b>	<b>42</b>
Selenium	0.80	0.28 U	<b>0.32</b>	<b>0.28</b>	0.28 U	0.27 U	0.26 U
Zinc	86	<b>34</b>	<b>57</b>	<b>38</b>	<b>37</b>	<b>34</b>	<b>28</b>
<b>Polycyclic Aromatic Hydrocarbons (mg/kg)</b>							
1-Methylnaphthalene	34	0.0073 U	0.0079 U	0.0071 U	0.0075 U	0.0073 U	0.0070 U
2-Methylnaphthalene	320	0.0073 U	0.0079 U	0.0071 U	0.0075 U	0.0073 U	0.0070 U
Acenaphthene	3.1	0.0073 U	0.0079 U	0.0071 U	0.0075 U	0.0073 U	0.0070 U
Acenaphthylene	NE	0.0073 U	0.0079 U	0.0071 U	0.0075 U	0.0073 U	0.0070 U
Anthracene	47	0.0073 U	0.0079 U	0.0071 U	0.0075 U	0.0073 U	0.0070 U
Benzo(a)anthracene	NE	0.0073 U	0.0079 U	0.0071 U	0.0075 U	0.0073 U	0.0070 U
Benzo(a)pyrene	NE	0.0073 U	0.0079 U	0.0071 U	0.0075 U	0.0073 U	0.0070 U
Benzo(b)fluoranthene	NE	0.0073 U	0.0079 U	0.0071 U	0.0075 U	0.0073 U	0.0070 U
Benzo(g,h,i)perylene	NE	0.0073 U	0.0079 U	0.0071 U	0.0075 U	0.0073 U	0.0070 U
Benzo(j,k)fluoranthene	NE	0.0073 U	0.0079 U	0.0071 U	0.0075 U	0.0073 U	0.0070 U
Chrysene	NE	0.0073 U	0.0079 U	0.0071 U	0.0075 U	0.0073 U	0.0070 U
Dibenzo(a,h)anthracene	NE	0.0073 U	0.0079 U	0.0071 U	0.0075 U	0.0073 U	0.0070 U
Fluoranthene	0.020	0.0073 U	0.0079 U	0.0071 U	0.0075 U	0.0073 U	0.0070 U
Fluorene	1.6	0.0073 U	0.0079 U	0.0071 U	0.0075 U	0.0073 U	0.0070 U
Indeno(1,2,3-c,d)pyrene	NE	0.0073 U	0.0079 U	0.0071 U	0.0075 U	0.0073 U	0.0070 U
Naphthalene	4.5	0.0073 U	0.0079 U	0.0071 U	0.0075 U	0.0073 U	0.0070 U
Phenanthrene	NE	0.0073 U	0.0079 U	0.0071 U	0.0075 U	0.0073 U	0.0070 U
Pyrene	0.020	0.0073 U	0.0079 U	0.0071 U	0.0075 U	0.0073 U	0.0070 U
Total cPAH TEQ (ND=0.5RL)	0.084	0.00551 U	0.00596 U	0.00536 U	0.00566 U	0.00551 U	0.00528 U

**Notes:**

<sup>1</sup> Soil screening levels shown are from the June 30, 2021 Final Remedial Investigation Workplan.

NE = Screening level not established

BDL = Below detection limit

Sum of DRO+ORO = Sum of diesel-range organics and oil-range organics

U = Not detected at the indicated laboratory reporting limit

bgs = below ground surface

Total cPAH TEQ (ND=0.5RL) = The total cPAH toxic equivalency concentration calculated per WAC 173-340-900 Table 708-2 using non-detects at one half the reporting limit.

**Bold** font indicates analyte was detected.

Gray shading indicates the concentration exceeds the screening level.

**APPENDIX A**  
**Laboratory Analytical Data**



14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

August 12, 2022

Garrett Leque  
GeoEngineers, Inc.  
554 West Bakerview Road  
Bellingham, WA 98226

Re: Analytical Data for Project 6694-002-05 T1200  
Laboratory Reference No. 2208-054

Dear Garrett:

Enclosed are the analytical results and associated quality control data for samples submitted on August 3, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister  
Project Manager

Enclosures



---

OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.



Date of Report: August 12, 2022  
Samples Submitted: August 3, 2022  
Laboratory Reference: 2208-054  
Project: 6694-002-05 T1200

### Case Narrative

Samples were collected on August 3, 2022 and received by the laboratory on August 3, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: August 12, 2022  
Samples Submitted: August 3, 2022  
Laboratory Reference: 2208-054  
Project: 6694-002-05 T1200

### ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
Soil-1-220803	08-054-01	Soil	8-3-22	8-3-22	
Soil-2-220803	08-054-02	Soil	8-3-22	8-3-22	
Soil-3-220803	08-054-03	Soil	8-3-22	8-3-22	
Soil-4-220803	08-054-04	Soil	8-3-22	8-3-22	
Soil-5-220803	08-054-05	Soil	8-3-22	8-3-22	
Soil-6-220803	08-054-06	Soil	8-3-22	8-3-22	



Date of Report: August 12, 2022  
 Samples Submitted: August 3, 2022  
 Laboratory Reference: 2208-054  
 Project: 6694-002-05 T1200

**DIESEL AND HEAVY OIL RANGE ORGANICS  
 NWTPH-Dx**

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>Soil-1-220803</b>					
Laboratory ID:	08-054-01					
Diesel Range Organics	<b>ND</b>	28	NWTPH-Dx	8-5-22	8-5-22	
Lube Oil Range Organics	<b>66</b>	55	NWTPH-Dx	8-5-22	8-5-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	83	50-150				

<b>Client ID:</b>	<b>Soil-2-220803</b>					
Laboratory ID:	08-054-02					
Diesel Range Organics	<b>ND</b>	30	NWTPH-Dx	8-5-22	8-5-22	
Lube Oil Range Organics	<b>ND</b>	59	NWTPH-Dx	8-5-22	8-5-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	81	50-150				

<b>Client ID:</b>	<b>Soil-3-220803</b>					
Laboratory ID:	08-054-03					
Diesel Range Organics	<b>ND</b>	27	NWTPH-Dx	8-5-22	8-5-22	
Lube Oil Range Organics	<b>ND</b>	54	NWTPH-Dx	8-5-22	8-5-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	92	50-150				

<b>Client ID:</b>	<b>Soil-4-220803</b>					
Laboratory ID:	08-054-04					
Diesel Range Organics	<b>ND</b>	28	NWTPH-Dx	8-5-22	8-5-22	
Lube Oil Range Organics	<b>ND</b>	56	NWTPH-Dx	8-5-22	8-5-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	80	50-150				

<b>Client ID:</b>	<b>Soil-5-220803</b>					
Laboratory ID:	08-054-05					
Diesel Range Organics	<b>ND</b>	27	NWTPH-Dx	8-5-22	8-6-22	
Lube Oil Range Organics	<b>ND</b>	54	NWTPH-Dx	8-5-22	8-6-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	86	50-150				

<b>Client ID:</b>	<b>Soil-6-220803</b>					
Laboratory ID:	08-054-06					
Diesel Range Organics	<b>ND</b>	26	NWTPH-Dx	8-5-22	8-5-22	
Lube Oil Range Organics	<b>ND</b>	53	NWTPH-Dx	8-5-22	8-5-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	86	50-150				



Date of Report: August 12, 2022  
 Samples Submitted: August 3, 2022  
 Laboratory Reference: 2208-054  
 Project: 6694-002-05 T1200

**PAHs EPA 8270E/SIM**

Matrix: Soil  
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>Soil-1-220803</b>					
<b>Laboratory ID:</b>	<b>08-054-01</b>					
Naphthalene	ND	0.0073	EPA 8270E/SIM	8-4-22	8-5-22	
2-Methylnaphthalene	ND	0.0073	EPA 8270E/SIM	8-4-22	8-5-22	
1-Methylnaphthalene	ND	0.0073	EPA 8270E/SIM	8-4-22	8-5-22	
Acenaphthylene	ND	0.0073	EPA 8270E/SIM	8-4-22	8-5-22	
Acenaphthene	ND	0.0073	EPA 8270E/SIM	8-4-22	8-5-22	
Fluorene	ND	0.0073	EPA 8270E/SIM	8-4-22	8-5-22	
Phenanthrene	ND	0.0073	EPA 8270E/SIM	8-4-22	8-5-22	
Anthracene	ND	0.0073	EPA 8270E/SIM	8-4-22	8-5-22	
Fluoranthene	ND	0.0073	EPA 8270E/SIM	8-4-22	8-5-22	
Pyrene	ND	0.0073	EPA 8270E/SIM	8-4-22	8-5-22	
Benzo[a]anthracene	ND	0.0073	EPA 8270E/SIM	8-4-22	8-5-22	
Chrysene	ND	0.0073	EPA 8270E/SIM	8-4-22	8-5-22	
Benzo[b]fluoranthene	ND	0.0073	EPA 8270E/SIM	8-4-22	8-5-22	
Benzo(j,k)fluoranthene	ND	0.0073	EPA 8270E/SIM	8-4-22	8-5-22	
Benzo[a]pyrene	ND	0.0073	EPA 8270E/SIM	8-4-22	8-5-22	
Indeno(1,2,3-c,d)pyrene	ND	0.0073	EPA 8270E/SIM	8-4-22	8-5-22	
Dibenz[a,h]anthracene	ND	0.0073	EPA 8270E/SIM	8-4-22	8-5-22	
Benzo[g,h,i]perylene	ND	0.0073	EPA 8270E/SIM	8-4-22	8-5-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	69	42 - 116				
<i>Pyrene-d10</i>	77	41 - 116				
<i>Terphenyl-d14</i>	66	49 - 130				



Date of Report: August 12, 2022  
 Samples Submitted: August 3, 2022  
 Laboratory Reference: 2208-054  
 Project: 6694-002-05 T1200

**PAHs EPA 8270E/SIM**

Matrix: Soil  
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>Soil-2-220803</b>					
<b>Laboratory ID:</b>	<b>08-054-02</b>					
Naphthalene	ND	0.0079	EPA 8270E/SIM	8-4-22	8-5-22	
2-Methylnaphthalene	ND	0.0079	EPA 8270E/SIM	8-4-22	8-5-22	
1-Methylnaphthalene	ND	0.0079	EPA 8270E/SIM	8-4-22	8-5-22	
Acenaphthylene	ND	0.0079	EPA 8270E/SIM	8-4-22	8-5-22	
Acenaphthene	ND	0.0079	EPA 8270E/SIM	8-4-22	8-5-22	
Fluorene	ND	0.0079	EPA 8270E/SIM	8-4-22	8-5-22	
Phenanthrene	ND	0.0079	EPA 8270E/SIM	8-4-22	8-5-22	
Anthracene	ND	0.0079	EPA 8270E/SIM	8-4-22	8-5-22	
Fluoranthene	ND	0.0079	EPA 8270E/SIM	8-4-22	8-5-22	
Pyrene	ND	0.0079	EPA 8270E/SIM	8-4-22	8-5-22	
Benzo[a]anthracene	ND	0.0079	EPA 8270E/SIM	8-4-22	8-5-22	
Chrysene	ND	0.0079	EPA 8270E/SIM	8-4-22	8-5-22	
Benzo[b]fluoranthene	ND	0.0079	EPA 8270E/SIM	8-4-22	8-5-22	
Benzo(j,k)fluoranthene	ND	0.0079	EPA 8270E/SIM	8-4-22	8-5-22	
Benzo[a]pyrene	ND	0.0079	EPA 8270E/SIM	8-4-22	8-5-22	
Indeno(1,2,3-c,d)pyrene	ND	0.0079	EPA 8270E/SIM	8-4-22	8-5-22	
Dibenz[a,h]anthracene	ND	0.0079	EPA 8270E/SIM	8-4-22	8-5-22	
Benzo[g,h,i]perylene	ND	0.0079	EPA 8270E/SIM	8-4-22	8-5-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>72</i>	<i>42 - 116</i>				
<i>Pyrene-d10</i>	<i>74</i>	<i>41 - 116</i>				
<i>Terphenyl-d14</i>	<i>68</i>	<i>49 - 130</i>				



Date of Report: August 12, 2022  
 Samples Submitted: August 3, 2022  
 Laboratory Reference: 2208-054  
 Project: 6694-002-05 T1200

PAHs EPA 8270E/SIM

Matrix: Soil  
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>Soil-3-220803</b>					
<b>Laboratory ID:</b>	<b>08-054-03</b>					
Naphthalene	ND	0.0071	EPA 8270E/SIM	8-4-22	8-5-22	
2-Methylnaphthalene	ND	0.0071	EPA 8270E/SIM	8-4-22	8-5-22	
1-Methylnaphthalene	ND	0.0071	EPA 8270E/SIM	8-4-22	8-5-22	
Acenaphthylene	ND	0.0071	EPA 8270E/SIM	8-4-22	8-5-22	
Acenaphthene	ND	0.0071	EPA 8270E/SIM	8-4-22	8-5-22	
Fluorene	ND	0.0071	EPA 8270E/SIM	8-4-22	8-5-22	
Phenanthrene	ND	0.0071	EPA 8270E/SIM	8-4-22	8-5-22	
Anthracene	ND	0.0071	EPA 8270E/SIM	8-4-22	8-5-22	
Fluoranthene	ND	0.0071	EPA 8270E/SIM	8-4-22	8-5-22	
Pyrene	ND	0.0071	EPA 8270E/SIM	8-4-22	8-5-22	
Benzo[a]anthracene	ND	0.0071	EPA 8270E/SIM	8-4-22	8-5-22	
Chrysene	ND	0.0071	EPA 8270E/SIM	8-4-22	8-5-22	
Benzo[b]fluoranthene	ND	0.0071	EPA 8270E/SIM	8-4-22	8-5-22	
Benzo(j,k)fluoranthene	ND	0.0071	EPA 8270E/SIM	8-4-22	8-5-22	
Benzo[a]pyrene	ND	0.0071	EPA 8270E/SIM	8-4-22	8-5-22	
Indeno(1,2,3-c,d)pyrene	ND	0.0071	EPA 8270E/SIM	8-4-22	8-5-22	
Dibenz[a,h]anthracene	ND	0.0071	EPA 8270E/SIM	8-4-22	8-5-22	
Benzo[g,h,i]perylene	ND	0.0071	EPA 8270E/SIM	8-4-22	8-5-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>65</i>	<i>42 - 116</i>				
<i>Pyrene-d10</i>	<i>68</i>	<i>41 - 116</i>				
<i>Terphenyl-d14</i>	<i>60</i>	<i>49 - 130</i>				



Date of Report: August 12, 2022  
 Samples Submitted: August 3, 2022  
 Laboratory Reference: 2208-054  
 Project: 6694-002-05 T1200

**PAHs EPA 8270E/SIM**

Matrix: Soil  
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>Soil-4-220803</b>					
<b>Laboratory ID:</b>	<b>08-054-04</b>					
Naphthalene	ND	0.0075	EPA 8270E/SIM	8-4-22	8-5-22	
2-Methylnaphthalene	ND	0.0075	EPA 8270E/SIM	8-4-22	8-5-22	
1-Methylnaphthalene	ND	0.0075	EPA 8270E/SIM	8-4-22	8-5-22	
Acenaphthylene	ND	0.0075	EPA 8270E/SIM	8-4-22	8-5-22	
Acenaphthene	ND	0.0075	EPA 8270E/SIM	8-4-22	8-5-22	
Fluorene	ND	0.0075	EPA 8270E/SIM	8-4-22	8-5-22	
Phenanthrene	ND	0.0075	EPA 8270E/SIM	8-4-22	8-5-22	
Anthracene	ND	0.0075	EPA 8270E/SIM	8-4-22	8-5-22	
Fluoranthene	ND	0.0075	EPA 8270E/SIM	8-4-22	8-5-22	
Pyrene	ND	0.0075	EPA 8270E/SIM	8-4-22	8-5-22	
Benzo[a]anthracene	ND	0.0075	EPA 8270E/SIM	8-4-22	8-5-22	
Chrysene	ND	0.0075	EPA 8270E/SIM	8-4-22	8-5-22	
Benzo[b]fluoranthene	ND	0.0075	EPA 8270E/SIM	8-4-22	8-5-22	
Benzo(j,k)fluoranthene	ND	0.0075	EPA 8270E/SIM	8-4-22	8-5-22	
Benzo[a]pyrene	ND	0.0075	EPA 8270E/SIM	8-4-22	8-5-22	
Indeno(1,2,3-c,d)pyrene	ND	0.0075	EPA 8270E/SIM	8-4-22	8-5-22	
Dibenz[a,h]anthracene	ND	0.0075	EPA 8270E/SIM	8-4-22	8-5-22	
Benzo[g,h,i]perylene	ND	0.0075	EPA 8270E/SIM	8-4-22	8-5-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>73</i>	<i>42 - 116</i>				
<i>Pyrene-d10</i>	<i>69</i>	<i>41 - 116</i>				
<i>Terphenyl-d14</i>	<i>71</i>	<i>49 - 130</i>				



Date of Report: August 12, 2022  
 Samples Submitted: August 3, 2022  
 Laboratory Reference: 2208-054  
 Project: 6694-002-05 T1200

**PAHs EPA 8270E/SIM**

Matrix: Soil  
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>Soil-5-220803</b>					
<b>Laboratory ID:</b>	<b>08-054-05</b>					
Naphthalene	ND	0.0073	EPA 8270E/SIM	8-4-22	8-5-22	
2-Methylnaphthalene	ND	0.0073	EPA 8270E/SIM	8-4-22	8-5-22	
1-Methylnaphthalene	ND	0.0073	EPA 8270E/SIM	8-4-22	8-5-22	
Acenaphthylene	ND	0.0073	EPA 8270E/SIM	8-4-22	8-5-22	
Acenaphthene	ND	0.0073	EPA 8270E/SIM	8-4-22	8-5-22	
Fluorene	ND	0.0073	EPA 8270E/SIM	8-4-22	8-5-22	
Phenanthrene	ND	0.0073	EPA 8270E/SIM	8-4-22	8-5-22	
Anthracene	ND	0.0073	EPA 8270E/SIM	8-4-22	8-5-22	
Fluoranthene	ND	0.0073	EPA 8270E/SIM	8-4-22	8-5-22	
Pyrene	ND	0.0073	EPA 8270E/SIM	8-4-22	8-5-22	
Benzo[a]anthracene	ND	0.0073	EPA 8270E/SIM	8-4-22	8-5-22	
Chrysene	ND	0.0073	EPA 8270E/SIM	8-4-22	8-5-22	
Benzo[b]fluoranthene	ND	0.0073	EPA 8270E/SIM	8-4-22	8-5-22	
Benzo(j,k)fluoranthene	ND	0.0073	EPA 8270E/SIM	8-4-22	8-5-22	
Benzo[a]pyrene	ND	0.0073	EPA 8270E/SIM	8-4-22	8-5-22	
Indeno(1,2,3-c,d)pyrene	ND	0.0073	EPA 8270E/SIM	8-4-22	8-5-22	
Dibenz[a,h]anthracene	ND	0.0073	EPA 8270E/SIM	8-4-22	8-5-22	
Benzo[g,h,i]perylene	ND	0.0073	EPA 8270E/SIM	8-4-22	8-5-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>74</i>	<i>42 - 116</i>				
<i>Pyrene-d10</i>	<i>76</i>	<i>41 - 116</i>				
<i>Terphenyl-d14</i>	<i>66</i>	<i>49 - 130</i>				





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 Project: 6694-002-05 T1200

**PAHs EPA 8270E/SIM**

Matrix: Soil  
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>Soil-6-220803</b>					
<b>Laboratory ID:</b>	<b>08-054-06</b>					
Naphthalene	ND	0.0070	EPA 8270E/SIM	8-4-22	8-5-22	
2-Methylnaphthalene	ND	0.0070	EPA 8270E/SIM	8-4-22	8-5-22	
1-Methylnaphthalene	ND	0.0070	EPA 8270E/SIM	8-4-22	8-5-22	
Acenaphthylene	ND	0.0070	EPA 8270E/SIM	8-4-22	8-5-22	
Acenaphthene	ND	0.0070	EPA 8270E/SIM	8-4-22	8-5-22	
Fluorene	ND	0.0070	EPA 8270E/SIM	8-4-22	8-5-22	
Phenanthrene	ND	0.0070	EPA 8270E/SIM	8-4-22	8-5-22	
Anthracene	ND	0.0070	EPA 8270E/SIM	8-4-22	8-5-22	
Fluoranthene	ND	0.0070	EPA 8270E/SIM	8-4-22	8-5-22	
Pyrene	ND	0.0070	EPA 8270E/SIM	8-4-22	8-5-22	
Benzo[a]anthracene	ND	0.0070	EPA 8270E/SIM	8-4-22	8-5-22	
Chrysene	ND	0.0070	EPA 8270E/SIM	8-4-22	8-5-22	
Benzo[b]fluoranthene	ND	0.0070	EPA 8270E/SIM	8-4-22	8-5-22	
Benzo(j,k)fluoranthene	ND	0.0070	EPA 8270E/SIM	8-4-22	8-5-22	
Benzo[a]pyrene	ND	0.0070	EPA 8270E/SIM	8-4-22	8-5-22	
Indeno(1,2,3-c,d)pyrene	ND	0.0070	EPA 8270E/SIM	8-4-22	8-5-22	
Dibenz[a,h]anthracene	ND	0.0070	EPA 8270E/SIM	8-4-22	8-5-22	
Benzo[g,h,i]perylene	ND	0.0070	EPA 8270E/SIM	8-4-22	8-5-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>70</i>	<i>42 - 116</i>				
<i>Pyrene-d10</i>	<i>71</i>	<i>41 - 116</i>				
<i>Terphenyl-d14</i>	<i>65</i>	<i>49 - 130</i>				



Date of Report: August 12, 2022  
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 Project: 6694-002-05 T1200

**TOTAL METALS**  
**EPA 6010D/6020B/7471B**

Matrix: Soil  
 Units: mg/Kg (ppm)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>Soil-1-220803</b>					
Laboratory ID:	08-054-01					
Arsenic	ND	11	EPA 6010D	8-8-22	8-8-22	
Cadmium	ND	0.55	EPA 6010D	8-8-22	8-8-22	
Chromium	26	0.55	EPA 6010D	8-8-22	8-8-22	
Copper	12	1.1	EPA 6010D	8-8-22	8-8-22	
Lead	6.8	5.5	EPA 6010D	8-8-22	8-8-22	
Mercury	0.034	0.022	EPA 7471B	8-4-22	8-4-22	
Nickel	54	2.8	EPA 6010D	8-8-22	8-8-22	
Selenium	ND	0.28	EPA 6020B	8-8-22	8-8-22	
Zinc	34	2.8	EPA 6010D	8-8-22	8-8-22	

<b>Client ID:</b>	<b>Soil-2-220803</b>					
Laboratory ID:	08-054-02					
Arsenic	ND	12	EPA 6010D	8-8-22	8-8-22	
Cadmium	ND	0.59	EPA 6010D	8-8-22	8-8-22	
Chromium	44	0.59	EPA 6010D	8-8-22	8-8-22	
Copper	28	1.2	EPA 6010D	8-8-22	8-8-22	
Lead	ND	5.9	EPA 6010D	8-8-22	8-8-22	
Mercury	0.030	0.024	EPA 7471B	8-4-22	8-4-22	
Nickel	64	3.0	EPA 6010D	8-8-22	8-8-22	
Selenium	0.32	0.30	EPA 6020B	8-8-22	8-8-22	
Zinc	57	3.0	EPA 6010D	8-8-22	8-8-22	

<b>Client ID:</b>	<b>Soil-3-220803</b>					
Laboratory ID:	08-054-03					
Arsenic	ND	11	EPA 6010D	8-8-22	8-8-22	
Cadmium	ND	0.54	EPA 6010D	8-8-22	8-8-22	
Chromium	51	0.54	EPA 6010D	8-8-22	8-8-22	
Copper	21	1.1	EPA 6010D	8-8-22	8-8-22	
Lead	ND	5.4	EPA 6010D	8-8-22	8-8-22	
Mercury	0.021	0.021	EPA 7471B	8-4-22	8-4-22	
Nickel	54	2.7	EPA 6010D	8-8-22	8-8-22	
Selenium	0.28	0.27	EPA 6020B	8-8-22	8-8-22	
Zinc	38	2.7	EPA 6010D	8-8-22	8-8-22	



Date of Report: August 12, 2022  
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 Laboratory Reference: 2208-054  
 Project: 6694-002-05 T1200

**TOTAL METALS**  
**EPA 6010D/6020B/7471B**

Matrix: Soil  
 Units: mg/Kg (ppm)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>Soil-4-220803</b>					
Laboratory ID:	08-054-04					
Arsenic	ND	11	EPA 6010D	8-8-22	8-8-22	
Cadmium	ND	0.56	EPA 6010D	8-8-22	8-8-22	
Chromium	29	0.56	EPA 6010D	8-8-22	8-8-22	
Copper	14	1.1	EPA 6010D	8-8-22	8-8-22	
Lead	ND	5.6	EPA 6010D	8-8-22	8-8-22	
Mercury	0.027	0.022	EPA 7471B	8-4-22	8-4-22	
Nickel	48	2.8	EPA 6010D	8-8-22	8-8-22	
Selenium	ND	0.28	EPA 6020B	8-8-22	8-8-22	
Zinc	37	2.8	EPA 6010D	8-8-22	8-8-22	

<b>Client ID:</b>	<b>Soil-5-220803</b>					
Laboratory ID:	08-054-05					
Arsenic	ND	11	EPA 6010D	8-8-22	8-8-22	
Cadmium	ND	0.54	EPA 6010D	8-8-22	8-8-22	
Chromium	32	0.54	EPA 6010D	8-8-22	8-8-22	
Copper	14	1.1	EPA 6010D	8-8-22	8-8-22	
Lead	ND	5.4	EPA 6010D	8-8-22	8-8-22	
Mercury	ND	0.022	EPA 7471B	8-4-22	8-4-22	
Nickel	46	2.7	EPA 6010D	8-8-22	8-8-22	
Selenium	ND	0.27	EPA 6020B	8-8-22	8-8-22	
Zinc	34	2.7	EPA 6010D	8-8-22	8-8-22	

<b>Client ID:</b>	<b>Soil-6-220803</b>					
Laboratory ID:	08-054-06					
Arsenic	ND	11	EPA 6010D	8-8-22	8-8-22	
Cadmium	ND	0.53	EPA 6010D	8-8-22	8-8-22	
Chromium	23	0.53	EPA 6010D	8-8-22	8-8-22	
Copper	11	1.1	EPA 6010D	8-8-22	8-8-22	
Lead	ND	5.3	EPA 6010D	8-8-22	8-8-22	
Mercury	ND	0.021	EPA 7471B	8-4-22	8-4-22	
Nickel	42	2.6	EPA 6010D	8-8-22	8-8-22	
Selenium	ND	0.26	EPA 6020B	8-8-22	8-8-22	
Zinc	28	2.6	EPA 6010D	8-8-22	8-8-22	



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**DIESEL AND HEAVY OIL RANGE ORGANICS  
 NWTPH-Dx  
 QUALITY CONTROL**

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0805S1					
Diesel Range Organics	<b>ND</b>	25	NWTPH-Dx	8-5-22	8-5-22	
Lube Oil Range Organics	<b>ND</b>	50	NWTPH-Dx	8-5-22	8-5-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>101</i>	<i>50-150</i>				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	SB0805S1							
	ORIG	DUP						
Diesel Fuel #2	<b>106</b>	<b>98.8</b>	NA	NA	NA	NA	7	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				106	99	50-150		



Date of Report: August 12, 2022  
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 Laboratory Reference: 2208-054  
 Project: 6694-002-05 T1200

**PAHs EPA 8270E/SIM  
 QUALITY CONTROL**

Matrix: Soil  
 Units: mg/Kg

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>METHOD BLANK</b>						
Laboratory ID:	MB0804S1					
Naphthalene	ND	0.0067	EPA 8270E/SIM	8-4-22	8-5-22	
2-Methylnaphthalene	ND	0.0067	EPA 8270E/SIM	8-4-22	8-5-22	
1-Methylnaphthalene	ND	0.0067	EPA 8270E/SIM	8-4-22	8-5-22	
Acenaphthylene	ND	0.0067	EPA 8270E/SIM	8-4-22	8-5-22	
Acenaphthene	ND	0.0067	EPA 8270E/SIM	8-4-22	8-5-22	
Fluorene	ND	0.0067	EPA 8270E/SIM	8-4-22	8-5-22	
Phenanthrene	ND	0.0067	EPA 8270E/SIM	8-4-22	8-5-22	
Anthracene	ND	0.0067	EPA 8270E/SIM	8-4-22	8-5-22	
Fluoranthene	ND	0.0067	EPA 8270E/SIM	8-4-22	8-5-22	
Pyrene	ND	0.0067	EPA 8270E/SIM	8-4-22	8-5-22	
Benzo[a]anthracene	ND	0.0067	EPA 8270E/SIM	8-4-22	8-5-22	
Chrysene	ND	0.0067	EPA 8270E/SIM	8-4-22	8-5-22	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270E/SIM	8-4-22	8-5-22	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270E/SIM	8-4-22	8-5-22	
Benzo[a]pyrene	ND	0.0067	EPA 8270E/SIM	8-4-22	8-5-22	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270E/SIM	8-4-22	8-5-22	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270E/SIM	8-4-22	8-5-22	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270E/SIM	8-4-22	8-5-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>68</i>	<i>42 - 116</i>				
<i>Pyrene-d10</i>	<i>66</i>	<i>41 - 116</i>				
<i>Terphenyl-d14</i>	<i>69</i>	<i>49 - 130</i>				



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 Laboratory Reference: 2208-054  
 Project: 6694-002-05 T1200

**PAHs EPA 8270E/SIM  
 QUALITY CONTROL**

Matrix: Soil  
 Units: mg/Kg

<b>Analyte</b>	<b>Result</b>		<b>Spike Level</b>		<b>Source</b>	<b>Percent</b>		<b>Recovery</b>	<b>RPD</b>	<b>RPD</b>	<b>Flags</b>
					<b>Result</b>	<b>Recovery</b>	<b>Limits</b>		<b>RPD</b>	<b>Limit</b>	
<b>MATRIX SPIKES</b>											
Laboratory ID:	08-054-01										
	MS	MSD	MS	MSD		MS	MSD				
Naphthalene	<b>0.0530</b>	<b>0.0582</b>	0.0833	0.0833	ND	64	70	43 - 118	9	28	
Acenaphthylene	<b>0.0628</b>	<b>0.0671</b>	0.0833	0.0833	ND	75	81	51 - 127	7	29	
Acenaphthene	<b>0.0633</b>	<b>0.0682</b>	0.0833	0.0833	ND	76	82	46 - 128	7	28	
Fluorene	<b>0.0598</b>	<b>0.0614</b>	0.0833	0.0833	ND	72	74	49 - 128	3	24	
Phenanthrene	<b>0.0660</b>	<b>0.0667</b>	0.0833	0.0833	ND	79	80	44 - 135	1	32	
Anthracene	<b>0.0692</b>	<b>0.0697</b>	0.0833	0.0833	ND	83	84	49 - 135	1	26	
Fluoranthene	<b>0.0718</b>	<b>0.0734</b>	0.0833	0.0833	ND	86	88	48 - 139	2	32	
Pyrene	<b>0.0752</b>	<b>0.0754</b>	0.0833	0.0833	ND	90	91	46 - 143	0	32	
Benzo[a]anthracene	<b>0.0666</b>	<b>0.0684</b>	0.0833	0.0833	ND	80	82	49 - 137	3	33	
Chrysene	<b>0.0649</b>	<b>0.0653</b>	0.0833	0.0833	ND	78	78	48 - 136	1	30	
Benzo[b]fluoranthene	<b>0.0687</b>	<b>0.0677</b>	0.0833	0.0833	ND	82	81	48 - 141	1	32	
Benzo(j,k)fluoranthene	<b>0.0603</b>	<b>0.0616</b>	0.0833	0.0833	ND	72	74	48 - 141	2	32	
Benzo[a]pyrene	<b>0.0656</b>	<b>0.0668</b>	0.0833	0.0833	ND	79	80	48 - 140	2	32	
Indeno(1,2,3-c,d)pyrene	<b>0.0604</b>	<b>0.0623</b>	0.0833	0.0833	ND	73	75	47 - 139	3	28	
Dibenz[a,h]anthracene	<b>0.0586</b>	<b>0.0592</b>	0.0833	0.0833	ND	70	71	51 - 133	1	24	
Benzo[g,h,i]perylene	<b>0.0585</b>	<b>0.0584</b>	0.0833	0.0833	ND	70	70	47 - 136	0	29	
<i>Surrogate:</i>											
2-Fluorobiphenyl						63	70	42 - 116			
Pyrene-d10						68	73	41 - 116			
Terphenyl-d14						60	63	49 - 130			



Date of Report: August 12, 2022  
 Samples Submitted: August 3, 2022  
 Laboratory Reference: 2208-054  
 Project: 6694-002-05 T1200

**TOTAL METALS**  
**EPA 6010D/6020B/7471B**  
**QUALITY CONTROL**

Matrix: Soil  
 Units: mg/Kg (ppm)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>METHOD BLANK</b>						
Laboratory ID:	MB0808SM2					
Arsenic	ND	10	EPA 6010D	8-8-22	8-8-22	
Cadmium	ND	0.50	EPA 6010D	8-8-22	8-8-22	
Chromium	ND	0.50	EPA 6010D	8-8-22	8-8-22	
Copper	ND	1.0	EPA 6010D	8-8-22	8-8-22	
Lead	ND	5.0	EPA 6010D	8-8-22	8-8-22	
Nickel	ND	2.5	EPA 6010D	8-8-22	8-8-22	
Zinc	ND	2.5	EPA 6010D	8-8-22	8-8-22	
<hr/>						
Laboratory ID:	MB0804S1					
Mercury	ND	0.020	EPA 7471B	8-4-22	8-4-22	
<hr/>						
Laboratory ID:	MB0808SM1					
Selenium	ND	0.50	EPA 6020B	8-8-22	8-8-22	



Date of Report: August 12, 2022  
 Samples Submitted: August 3, 2022  
 Laboratory Reference: 2208-054  
 Project: 6694-002-05 T1200

**TOTAL METALS  
 EPA 6010D/6020B/7471B  
 QUALITY CONTROL**

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD		Flags
	Result	Result	Result	Result	Result	Recovery	Limits	RPD	Limit	
<b>DUPLICATE</b>										
Laboratory ID:	07-298-01									
	ORIG	DUP								
Arsenic	ND	ND	NA	NA		NA	NA	NA	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	27.4	26.3	NA	NA		NA	NA	4	20	
Copper	26.6	25.8	NA	NA		NA	NA	3	20	
Lead	6.95	5.25	NA	NA		NA	NA	28	20	C
Nickel	38.0	35.0	NA	NA		NA	NA	8	20	
Zinc	76.7	68.2	NA	NA		NA	NA	12	20	

Laboratory ID:	07-298-01									
Mercury	0.0306	0.0246	NA	NA		NA	NA	22	20	C

Laboratory ID:	08-061-03									
	ORIG	DUP								
Selenium	0.550	0.565	NA	NA		NA	NA	3	20	

**MATRIX SPIKES**

Laboratory ID:	07-298-01									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	94.7	97.1	100	100	ND	95	97	75-125	3	20
Cadmium	47.3	48.8	50.0	50.0	ND	95	98	75-125	3	20
Chromium	116	118	100	100	27.4	89	91	75-125	1	20
Copper	76.8	81.1	50.0	50.0	26.6	100	109	75-125	5	20
Lead	251	259	250	250	6.95	98	101	75-125	3	20
Nickel	130	133	100	100	38.0	92	95	75-125	2	20
Zinc	164	187	100	100	76.7	87	111	75-125	13	20

Laboratory ID:	07-298-01									
Mercury	0.503	0.502	0.500	0.500	0.0306	95	94	80-120	0	20

Laboratory ID:	08-061-03									
	MS	MSD	MS	MSD		MS	MSD			
Selenium	108	103	100	100	0.550	107	102	75-125	5	20





Date of Report: August 12, 2022  
Samples Submitted: August 3, 2022  
Laboratory Reference: 2208-054  
Project: 6694-002-05 T1200

**% MOISTURE**

<b>Client ID</b>	<b>Lab ID</b>	<b>% Moisture</b>	<b>Date Analyzed</b>
Soil-1-220803	08-054-01	9	8-4-22
Soil-2-220803	08-054-02	15	8-4-22
Soil-3-220803	08-054-03	7	8-4-22
Soil-4-220803	08-054-04	11	8-4-22
Soil-5-220803	08-054-05	8	8-4-22
Soil-6-220803	08-054-06	5	8-4-22





### Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
  - B - The analyte indicated was also found in the blank sample.
  - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
  - E - The value reported exceeds the quantitation range and is an estimate.
  - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
  - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
  - I - Compound recovery is outside of the control limits.
  - J - The value reported was below the practical quantitation limit. The value is an estimate.
  - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
  - L - The RPD is outside of the control limits.
  - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
  - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
  - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
  - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
  - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
  - P - The RPD of the detected concentrations between the two columns is greater than 40.
  - Q - Surrogate recovery is outside of the control limits.
  - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
  - T - The sample chromatogram is not similar to a typical \_\_\_\_\_.
  - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
  - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
  - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
  - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
  - X - Sample extract treated with a mercury cleanup procedure.
  - X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
  - Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
  - Z -
- ND - Not Detected at PQL  
 PQL - Practical Quantitation Limit  
 RPD - Relative Percent Difference





OnSite Environmental Inc.  
Analytical Laboratory Testing Services  
14648 NE 95th Street • Redmond, WA 98052  
Phone: (425) 883-3881 • www.onsite-env.com

# Chain of Custody

Company: GEI  
Project Number: 6694-002-05-T1200  
Project Name: Go East  
Project Manager: Garrett Leque  
Sampled by: JDE

Turnaround Request (in working days)  
(Check One)  
 Same Day     1 Day  
 2 Days     3 Days  
 Standard (7 Days)  
 \_\_\_\_\_ (other)

Laboratory Number: **08-054**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	Analytical Parameters																		
						NWTPH-HCID	NWTPH-Gx/BTEX (802 <input type="checkbox"/> 8260 <input type="checkbox"/> )	NWTPH-Gx	NWTPH-Dx (Acid / SG Clean-up <input type="checkbox"/> )	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Metals see list	% Moisture
1	Soil-1-220803	8/3/22	1140	S	1			X							X					X				X
2	Soil-2-220803		1143					X							X					X				X
3	Soil-3-220803		1145					X							X					X				X
4	Soil-4-220803		1147					X							X					X				X
5	Soil-5-220803		1150					X							X					X				X
6	Soil-6-220803		1154					X							X					X				X

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished	<u>[Signature]</u>	<u>GEI</u>	<u>8/3/22</u>	<u>1345</u>	<u>Metals: As, Cd, Cr, Cu, Pb, Hg, Ni, Se, Zn</u> <u>Call Garrett w/questions</u>
Received					
Relinquished					
Received					
Relinquished					
Received					Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>
Reviewed/Date		Reviewed/Date			Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>



14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

August 29, 2022

Garrett Leque  
GeoEngineers, Inc.  
554 West Bakerview Road  
Bellingham, WA 98226

Re: Analytical Data for Project 6694-002-05 T1200  
Laboratory Reference No. 2208-054B

Dear Garrett:

Enclosed are the analytical results and associated quality control data for samples submitted on August 3, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister  
Project Manager

Enclosures



---

OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 29, 2022  
Samples Submitted: August 3, 2022  
Laboratory Reference: 2208-054B  
Project: 6694-002-05 T1200

### Case Narrative

Samples were collected on August 3, 2022 and received by the laboratory on August 3, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

#### Total Metals EPA 6010D Analysis

Due to the high concentration of Iron and Magnesium in the QC sample, the amount spiked was insufficient for meaningful MS/MSD recovery data. The Spike Blank recovery was 105% for Iron and 100% for Magnesium.

#### Total Manganese EPA 6010D Analysis

Due to the high concentration of Manganese in the QC sample, the amount spiked was insufficient for meaningful MS/MSD recovery data. The Spike Blank recovery was 107%.

**Please note that any other QA/QC issues associated with these extractions and analyses will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.**



Date of Report: August 29, 2022  
Samples Submitted: August 3, 2022  
Laboratory Reference: 2208-054B  
Project: 6694-002-05 T1200

#### ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
Soil-1-220803	08-054-01	Soil	8-3-22	8-3-22	
Soil-2-220803	08-054-02	Soil	8-3-22	8-3-22	
Soil-3-220803	08-054-03	Soil	8-3-22	8-3-22	
Soil-4-220803	08-054-04	Soil	8-3-22	8-3-22	
Soil-5-220803	08-054-05	Soil	8-3-22	8-3-22	
Soil-6-220803	08-054-06	Soil	8-3-22	8-3-22	



Date of Report: August 29, 2022  
 Samples Submitted: August 3, 2022  
 Laboratory Reference: 2208-054B  
 Project: 6694-002-05 T1200

**TOTAL METALS  
 EPA 6010D**

Matrix: Soil  
 Units: mg/Kg (ppm)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>Soil-1-220803</b>					
Laboratory ID:	08-054-01					
Iron	<b>17000</b>	1100	EPA 6010D	8-24-22	8-24-22	
Magnesium	<b>7000</b>	1100	EPA 6010D	8-24-22	8-24-22	
<b>Client ID:</b>	<b>Soil-2-220803</b>					
Laboratory ID:	08-054-02					
Iron	<b>21000</b>	1200	EPA 6010D	8-24-22	8-24-22	
Magnesium	<b>8400</b>	1200	EPA 6010D	8-24-22	8-24-22	
<b>Client ID:</b>	<b>Soil-3-220803</b>					
Laboratory ID:	08-054-03					
Iron	<b>20000</b>	1100	EPA 6010D	8-24-22	8-24-22	
Magnesium	<b>8100</b>	1100	EPA 6010D	8-24-22	8-24-22	
<b>Client ID:</b>	<b>Soil-4-220803</b>					
Laboratory ID:	08-054-04					
Iron	<b>17000</b>	1100	EPA 6010D	8-24-22	8-24-22	
Magnesium	<b>6300</b>	1100	EPA 6010D	8-24-22	8-24-22	
<b>Client ID:</b>	<b>Soil-5-220803</b>					
Laboratory ID:	08-054-05					
Iron	<b>19000</b>	1100	EPA 6010D	8-24-22	8-24-22	
Magnesium	<b>6700</b>	1100	EPA 6010D	8-24-22	8-24-22	
<b>Client ID:</b>	<b>Soil-6-220803</b>					
Laboratory ID:	08-054-06					
Iron	<b>16000</b>	2600	EPA 6010D	8-24-22	8-24-22	
Magnesium	<b>6400</b>	2600	EPA 6010D	8-24-22	8-24-22	



Date of Report: August 29, 2022  
 Samples Submitted: August 3, 2022  
 Laboratory Reference: 2208-054B  
 Project: 6694-002-05 T1200

**TOTAL MANGANESE  
EPA 6010D**

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>Soil-1-220803</b>					
Laboratory ID:	08-054-01					
Manganese	<b>320</b>	5.5	EPA 6010D	8-26-22	8-26-22	

<b>Client ID:</b>	<b>Soil-2-220803</b>					
Laboratory ID:	08-054-02					
Manganese	<b>350</b>	5.9	EPA 6010D	8-26-22	8-26-22	

<b>Client ID:</b>	<b>Soil-3-220803</b>					
Laboratory ID:	08-054-03					
Manganese	<b>380</b>	5.4	EPA 6010D	8-26-22	8-26-22	

<b>Client ID:</b>	<b>Soil-4-220803</b>					
Laboratory ID:	08-054-04					
Manganese	<b>340</b>	5.6	EPA 6010D	8-26-22	8-26-22	

<b>Client ID:</b>	<b>Soil-5-220803</b>					
Laboratory ID:	08-054-05					
Manganese	<b>320</b>	5.4	EPA 6010D	8-26-22	8-26-22	

<b>Client ID:</b>	<b>Soil-6-220803</b>					
Laboratory ID:	08-054-06					
Manganese	<b>280</b>	5.3	EPA 6010D	8-26-22	8-26-22	





Date of Report: August 29, 2022  
 Samples Submitted: August 3, 2022  
 Laboratory Reference: 2208-054B  
 Project: 6694-002-05 T1200

**TOTAL METALS  
 EPA 6010D  
 QUALITY CONTROL**

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0824SHA1					
Iron	ND	50	EPA 6010D	8-24-22	8-24-22	
Magnesium	ND	50	EPA 6010D	8-24-22	8-24-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	08-054-06							
	ORIG	DUP						
Iron	15100	16000	NA	NA	NA	NA	5	20
Magnesium	6100	6660	NA	NA	NA	NA	9	20

**MATRIX SPIKES**

Laboratory ID:	MS	MSD	MS	MSD	MS	MSD	MSD	RPD	RPD Limit	Flags	
08-054-06											
Iron	16300	17300	1000	1000	15100	115	215	75-125	6	20	A
Magnesium	6860	7760	1000	1000	6100	76	166	75-125	12	20	A



Date of Report: August 29, 2022  
 Samples Submitted: August 3, 2022  
 Laboratory Reference: 2208-054B  
 Project: 6694-002-05 T1200

**TOTAL MANGANESE  
 EPA 6010D  
 QUALITY CONTROL**

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0826SHL1					
Manganese	<b>ND</b>	0.50	EPA 6010D	8-26-22	8-26-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	08-054-06							
	ORIG	DUP						
Manganese	<b>268</b>	<b>259</b>	NA	NA	NA	NA	4	20

**MATRIX SPIKES**

Laboratory ID:	08-054-06										
	MS	MSD	MS	MSD	MS	MSD					
Manganese	<b>284</b>	<b>292</b>	25.0	25.0	268	<b>62</b>	<b>96</b>	75-125	3	20	A



Date of Report: August 29, 2022  
Samples Submitted: August 3, 2022  
Laboratory Reference: 2208-054B  
Project: 6694-002-05 T1200

**% MOISTURE**

<b>Client ID</b>	<b>Lab ID</b>	<b>% Moisture</b>	<b>Date Analyzed</b>
Soil-1-220803	08-054-01	9	8-4-22
Soil-2-220803	08-054-02	15	8-4-22
Soil-3-220803	08-054-03	7	8-4-22
Soil-4-220803	08-054-04	11	8-4-22
Soil-5-220803	08-054-05	8	8-4-22
Soil-6-220803	08-054-06	5	8-4-22





### Data Qualifiers and Abbreviations

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  - B - The analyte indicated was also found in the blank sample.
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  - E - The value reported exceeds the quantitation range and is an estimate.
  - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
  - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
  - I - Compound recovery is outside of the control limits.
  - J - The value reported was below the practical quantitation limit. The value is an estimate.
  - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
  - L - The RPD is outside of the control limits.
  - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
  - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
  - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
  - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
  - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
  - P - The RPD of the detected concentrations between the two columns is greater than 40.
  - Q - Surrogate recovery is outside of the control limits.
  - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
  - T - The sample chromatogram is not similar to a typical \_\_\_\_\_.
  - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
  - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
  - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
  - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
  - X - Sample extract treated with a mercury cleanup procedure.
  - X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
  - Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
  - Z -
- ND - Not Detected at PQL  
 PQL - Practical Quantitation Limit  
 RPD - Relative Percent Difference





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# Chain of Custody

Company: GEI  
 Project Number: 6694-002-05-T1200  
 Project Name: Go East  
 Project Manager: Garrett Leque  
 Sampled by: JDE

**Turnaround Request (in working days)**  
 (Check One)  
 Same Day     1 Day  
 2 Days     3 Days  
 Standard (7 Days)  
 \_\_\_\_\_ (other)

Laboratory Number: **08-054**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	Analytical Parameters																				
						NWTPH-HCID	NWTPH-Gx/BTEX (8021 <input type="checkbox"/> 8260 <input type="checkbox"/> )	NWTPH-Gx	NWTPH-Dx (Acid / SG Clean-up <input type="checkbox"/> )	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Metals see list	Metals - Fe, Mg	Metals - Mn	% Moisture
1	Soil-1-220803	8/3/22	1140	S	1				X														X	X	X	
2	Soil-2-220803		1143						X														X	X	X	
3	Soil-3-220803		1145						X														X	X	X	
4	Soil-4-220803		1147						X														X	X	X	
5	Soil-5-220803		1150						X														X	X	X	
6	Soil-6-220803		1154						X														X	X	X	

Signature	Company	Date	Time	Comments/Special Instructions
<u>[Signature]</u>	<u>GEI</u>	<u>8/3/22</u>	<u>1345</u>	Metals: As, Cd, Cr, Cu, Pb, Hg, Ni, Se, Zn
				Call Garrett w/questions
				<input checked="" type="checkbox"/> Added 8/23/22. DB (STA)
				<input checked="" type="checkbox"/> Added 8/24/22. DB
				Data Package: Standard <input type="checkbox"/> Level I <input type="checkbox"/> Level IV <input type="checkbox"/>
				Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>