

**Data Gaps Site Assessment**

Airport Kwik Stop  
Ione, Washington

*for*

**Washington State Department of Ecology**

March 8, 2024



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# Data Gaps Site Assessment

## Airport Kwik Stop Ione, Washington

File No. 0504-058-07

March 8, 2024

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## 1.0 INTRODUCTION

This report presents the results of the Data Gaps Assessment completed at the Airport Kwik Stop site (Site) located at 238 Greenhouse Road (Property) in Lone, Washington. The Site is shown on the Vicinity Map, Figure 1.

The Washington State Department of Ecology (Ecology) plans to complete an interim action at the Site (Ecology Cleanup Site Identification Number 4203) where petroleum hydrocarbons from former underground storage tank (UST) dispenser release(s) at the former Airport Kwik Stop contaminated soil and groundwater. The planned interim action included removal of former fuel station infrastructure and excavation of shallow contaminated soil. The purpose of the Data Gaps Assessment was to evaluate the current nature and extent of soil and groundwater contamination at the Site to assist with the design of the interim action.

This report was prepared in accordance with our Ecology-approved Work Plan (GeoEngineers 2023b), executed under Amendment No. 1 to TD&H Engineering, Inc.'s (TD&H) Contract No. 2200083 with Ecology (GeoEngineers 2023a).

## 2.0 SITE DESCRIPTION AND BACKGROUND

The Airport Kwik Stop site is located in Lone, Washington, to the north and east of the Lone Municipal Airport. The site generally slopes to the east toward the Pend Oreille River and includes the former Airport Kwik Stop property, the Former Cabin Grill property and undeveloped properties to the east (downgradient) of the former Airport Kwik Stop. Current property use at each of these properties is as follows:

- Former Airport Kwik Stop: The former Kwik Stop building located at the northwest corner of the intersection of State Route 31 (SR 31) and Greenhouse Road previously operated as a general store and gasoline service station. The general store has not dispensed gasoline for many years; however, the former store building, fuel pumps and associated lines are still on site.
- Former Cabin Grill: The Former Cabin Grill property is currently a private residence.
- Undeveloped Properties Downgradient (East) of the Airport Kwik Stop: The properties east of the Airport Kwik Stop across SR 31 consist of undeveloped timber and pasture land and are referred to as 'Vacant Property.'

### 2.1. Previous Site Investigations

Between 2010 and 2022, GeoEngineers and Ecology completed numerous site assessments and groundwater sampling events to characterize contamination at the site. Site characterization and groundwater monitoring results indicated gasoline-range petroleum hydrocarbon (GRPH)-contaminated groundwater was present beneath the site, extending from the former Airport Kwik Stop property, downgradient to the Cabin Grill property and undeveloped property to the north, east and south of the Cabin Grill property (GeoEngineers 2017).

GeoEngineers and Ecology also conducted multiple interim remedial actions including soil vapor extraction and air sparge treatment systems. GeoEngineers also developed an in-situ remediation plan to address the contamination present in soil and groundwater at the site via a combination of bioremediation amendment

and in-situ chemical oxidation (ISCO) injections (GeoEngineers 2017). One round of this in-situ treatment was performed in 2017.

## 2.2. Current Status

In 2021, TD&H was contracted by Ecology to oversee the design and implementation of a remediation plan that included demolition of the fuel canopy over the former fuel pump islands, excavation of contaminated soil, addition of remedial products at the bottom of the excavation to provide passive treatment to remaining contaminated soil and groundwater and site restoration. During the design process, the cost to shore the excavation and the limited space for excavation led to questions about the effectiveness of excavating contaminated soil, particularly since the subsurface conditions were not investigated following previous remediation efforts. In March 2023, TD&H and GeoEngineers recommended additional investigation to assess current contaminant concentrations in soil and groundwater to determine if the planned remedial approach was appropriate.

Specifically, the goals of the additional soil and groundwater sampling described in this assessment report were as follows:

- **Soil data gaps:** Collect current soil data within the former release area to estimate the remaining vadose-zone contamination, particularly within the upper 10 feet of the soil column, which is accessible for remedial excavation using a driven shoring system. Soil data was also collected to evaluate potential in-situ remedial alternatives for the site.
- **Groundwater data gaps:** Collect current groundwater data over two groundwater monitoring events to evaluate remaining dissolved-phase contaminant concentrations. Groundwater data was also collected to evaluate potential in-situ remedial alternatives for the site.

## 3.0 FIELD INVESTIGATION ACTIVITIES

To assess current soil and groundwater contamination at the site, GeoEngineers performed a limited soil and groundwater assessment. The following sections describe field activities completed, including drilling and soil sampling and groundwater sampling, and a discussion of observed subsurface conditions. Based on site conditions, some modifications to the Work Plan were implemented described below.

### 3.1. Soil Assessment

Cascade Environmental Drilling, LLC (Cascade) advanced five borings (B-8 through B-12) to approximately 41.5 feet below ground surface (bgs) beneath and surrounding the fuel station canopy between September 13 and September 14, 2023, using a limited access Hollow Stem Auger drill rig. Boring locations are shown in Figure 2, and boring logs are included in Appendix A. Boring locations were cleared for underground utilities prior to drilling.

Soil samples were obtained from the borings using a Dames and Moore (DM) sampler at 2.5-foot intervals. Soil samples were field screened for petroleum hydrocarbons using photoionization detector (PID) measurements and water sheen and odor observations. Field screening results are included in the boring logs (Appendix A), and PID results are summarized in Table I below.

**TABLE I. SUMMARY OF PID FIELD SCREENING RESULTS**

Screening Depth	PID Results (ppm)				
	B-8	B-9	B-10	B-11	B-12
2.5 - 4	2.7	1.8	--	23	<1
5 - 6.5	3.8	1.0	<1	3,109	114
7.5 - 9	1.7	1.1	--	85.9	9.6
10 - 11.5	2.7	1.4	<1	14.6	1.3
12.5 - 14	1.8	2.4	--	10.1	3.1
15 - 16.5	1.8	2.0	<1	14.7	5.2
17.5 - 19	2.3	1.2	--	26.4	10
20 - 21.5	3.3	<1	<1	36.7	<1
22.5 - 24	8.5	1.3	<1	32	6.2
25 - 26.5	3.9	<1	<1	41.3	1.5
27.5 - 29	4.5	1.2	<1	78.2	1.3
30 - 31.5	2.9	1.4	<1	15	1.1
32.5 - 34	1.6	<1	<1	596.3	1.3
35 - 36.5	1,017	1.0	<1	218	4.1
37.5 - 39	1,585	440	<1	265	1,136
40 - 41.5	<1	180	<1	28.2	42

Notes: PID = photoionization detector; ppm = parts per million; <1 = less than 1 ppm; '--' = depth interval not screened

Soil from each sample interval was placed in laboratory-prepared sample containers and four samples from each boring were submitted for chemical analysis as summarized in Table II below. Borings were backfilled with bentonite chips and were completed with concrete or surface soil to match the existing ground surface.

**TABLE II. SUMMARY OF SOIL SAMPLES SUBMITTED FOR ANALYSIS**

Soil Boring	Sample Interval Submitted for Analysis (feet bgs)	Sample Name
B-8	12.5 - 14	B-8 (12.5 - 14)
	25 - 26.5	B-8 (25 - 26.5)
	37.5 - 39	B-8 (37.5 - 39)
	40 - 41.5	B-8 (40 - 41.5)
B-9	12.5 - 14	B-9 (12.5 - 14)
	27.5 - 29	B-9 (27.5 - 29)
	37.5 - 39	B-9 (37.5 - 39)
	40 - 41.5	B-9 (40 - 41.5)
B-10	10 - 11.5	B-10 (10 - 11.5)
	25 - 26.5	B-10 (25 - 26.5)
	32.5 - 34	B-10 (32.5 - 34)



Soil Boring	Sample Interval Submitted for Analysis (feet bgs)	Sample Name
	40 - 41.5	B-11 (40 - 41.5)
B-11	5 - 6.5	B-11 (5 - 6.5)
	20 - 21.5	B-11 (20 - 21.5)
	32.5 - 34	B-11 (32.5 - 34)
	40 - 41.5	B-11 (40 - 41.5)
B-12	5 - 6.5	B-12 (5 - 6.5)
	17.5 - 19	B-12 (17.5 - 19)
	37.5 - 39	B-12 (37.5 - 39)
	40 - 41.5	B-12 (40 - 41.5)

### 3.2. Subsurface Conditions

Subsurface soil observed from borings B-8 through B-12 generally consisted of fine to coarse sand with occasional gravel between 2.5 feet to 39 feet overlying sand with trace clay from 40 to 41.5 feet. Wet soil representative of groundwater was observed in the samples collected from 37.5 and 40 feet bgs.

### 3.3. Groundwater Assessment

Depth to water and well headspace volatile organic vapor concentrations were measured, wells were checked for the presence of product and groundwater samples were collected in monitoring wells MW-3, MW-8, MW-9, MW-10, MW-11, MW-14, MW-15, MW-16, MW-17 and MW-18 in September and November 2023 in accordance with the Work Plan (GeoEngineers 2023b).

Measured groundwater elevations ranged from approximately 2072.5 feet near the former Airport Kwik Stop property, to approximately 2069 to the east-southeast toward the Pend Oreille River. The calculated groundwater gradient was approximately 0.003 feet per foot to the southeast, consistent with previous groundwater data from the site. Groundwater elevation contours are shown for each monitoring event (September and November) in Figures 3 and 4. Groundwater elevations and well headspace measurements are included in Table 1. Petroleum non-aqueous phase liquid (product) was not observed in any of the monitoring wells.

A groundwater sample and duplicate sample were collected from MW-8 on September 12, 2023. Groundwater samples were collected from monitoring wells MW-3, MW-9, MW-10, MW-11, MW-15 and MW-18 on September 15, 2023. On November 29 and 30, 2023, a second round of groundwater samples were collected from monitoring wells MW-3, MW-8, MW-9, MW-10, MW-11, MW-15, and MW-18, with one duplicate at MW-8. Groundwater quality parameters at the time of sample collection are summarized in Table III below.

**TABLE III. GROUNDWATER FIELD PARAMETERS**

Well ID	Sample Date	Field Measured Water Quality Parameters						
		Depth to Groundwater (feet bgs)	pH (pH units)	Specific Conductivity (µS/cm)	ORP (mV)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Temperature (°C)
MW-3	09/15/23	37.61	6.97	872	15.6	0.59	6.34	10.4
	11/30/23	37.86	7.34	804	-70.6	0.43	27.51	8.8
MW-8	09/12/23	36.84	6.98	1,052	44.9	0.42	7.10	10.6
	11/30/23	37.08	7.19	1,476	-39.1	0.10	5.63	8.6
MW-9	09/15/23	37.40	7.30	554	100.9	5.42	15.00	9.3
	11/30/23	37.68	7.68	515	175.0	4.68	6.00	8.2
MW-10	09/15/23	15.90	7.31	518	124.5	4.89	2.54	12.0
	11/29/23	16.06	7.70	510	100.8	5.11	3.00	9.2
MW-11	09/15/23	22.30	7.28	508	129.7	2.10	3.42	10.8
	11/29/23	22.53	7.67	580	183.1	2.11	4.68	7.6
MW-14	09/15/23	31.96	Not Sampled					
	11/29/23	32.19	Not Sampled					
MW-15	09/15/23	42.00	7.32	527	135.9	3.42	10.78	15.1
	11/29/23	42.21	6.00	488.8	167.1	3.28	12.77	8.1
MW-16	09/15/23	16.10	Not Sampled					
	11/29/23	16.25	Not Sampled					
MW-17	09/15/23	37.35	Not Sampled					
	11/29/23	37.59	Not Sampled					
MW-18	09/15/23	21.73	7.44	395.5	112.3	9.68	2.94	10.30
	11/29/23	22.09	7.80	367.2	139.1	8.85	3.51	8.7

Notes:

ORP = oxygen reduction potential; µS/cm = micro-Siemens per centimeter; mV = millivolts; mg/L = milligrams per liter;  
 NTU = nephelometric turbidity unit; C = Celsius

### 3.4. Investigation-Derived Waste

Investigation-derived waste (IDW), including soil cuttings, purge water, and decontamination fluids from assessment activities were placed in thirteen 55-gallon drums and stored in the garage building west of the former service station (Figure 2) pending waste profiling and off-site disposal.

### 4.0 CHEMICAL ANALYTICAL RESULTS

The following sections describe soil and groundwater chemical analytical results. Laboratory reports and data validation reports are included in Appendix B.

#### 4.1. Soil Chemical Analytical Results

Twenty soil samples (four per boring) and one duplicate sample were submitted to Eurofins Environment Testing (Eurofins) in Spokane Valley, Washington for analysis of the following contaminants of concern (COCs):

- GRPH using Northwest Method NWTPH-Gx; and
- Benzene, toluene, ethylbenzene, xylenes and naphthalene (BTEXN) using United States Environmental Protection Agency (EPA) Method 8260D.

Four samples including B-8 (40 – 41.5), B-9 (40 – 41.5), B-11 (5 – 6.5) and B-12 (5 – 6.5) were also analyzed for the following natural background parameters to assist with the development of potential treatment alternatives for the site:

- Calcium, iron, magnesium, manganese, potassium and sodium using EPA Method 6010D; and
- Total organic carbon (TOC) using EPA Method 9060.

Soil chemical analytical results are presented and compared to the Washington State Model Toxics Control Act (MTCA) Method A cleanup levels for unrestricted land use in Table 2, and are summarized below:

- GRPH was detected at concentrations greater than the MTCA Method A cleanup level (100 milligrams per kilogram [mg/kg] when benzene is not present in soil) in samples B-8 (37.5 – 39 & 40 – 41.5), B-11 (5 – 6.5 & 32.5 - 34) and B-12 (5 – 6.5 & 37.5 – 39).
- GRPH was either not detected or was detected at concentrations less than the MTCA Method A cleanup level in the other soil samples analyzed.
- Benzene was not detected in the soil samples analyzed.
- Toluene and ethylbenzene were either not detected or were detected at concentrations less than their respective MTCA Method A cleanup levels in the samples analyzed.
- Total xylenes were detected at a concentration (110 mg/kg) greater than the MTCA Method A cleanup level (9 mg/kg) in one sample, B-11 (5 – 6.5). Total xylenes were either not detected or were detected at concentrations less than the MTCA Method A cleanup level in the other soil samples analyzed.
- Naphthalene was detected at a concentration (12 mg/kg) greater than the MTCA Method A cleanup level (5 mg/kg) in one sample, B-11 (5 – 6.5). Naphthalene was either not detected or was detected at concentrations less than the MTCA Method A cleanup level in the other soil samples analyzed.

#### 4.2. Groundwater Chemical Analytical Results

Seven groundwater samples and one duplicate were submitted on September 18, 2023, and again on November 30, 2023, to Eurofins for analysis of GRPH and BTEXN using the methods described above. The samples from MW-3, MW-8, MW-9 and MW-18 were also analyzed for the following background parameters to assist with the development of potential treatment alternatives for the site:

- Total and dissolved iron and manganese using EPA Method 200.8;
- TOC using Standard Method (SM) 5310C;
- Alkalinity using SM 2320B;

- Methane using RSK-175; and
- Nitrate and sulfate using EPA Method 300.0.

Groundwater chemical analytical results are presented and compared to MTCA Method A cleanup levels in Table 3, and are summarized below:

- GRPH was detected at a concentration equal to or exceeding the MTCA Method A CUL (800 micrograms per liter [ $\mu\text{g}/\text{L}$ ]) in monitoring wells MW-3 and MW-8 during the September monitoring event. Note that the laboratory method blank for the September event had detectable GRPH. GRPH was either not detected or was detected at concentrations less than the MTCA Method A cleanup level in the remaining groundwater samples analyzed.
- Benzene, toluene, ethylbenzene, xylenes and naphthalene were either not detected or detected at concentrations less than their respective MTCA Method A cleanup levels in the samples analyzed.

## 5.0 SUMMARY AND RECOMMENDATIONS

Five soil borings (B-8 through B-12) were advanced surrounding and beneath the former fuel island at the former Airport Kwik Stop property where gasoline UST dispenser release(s) contaminated soil and groundwater. Soil samples were collected from each boring and submitted for chemical analysis of site COCs and additional soil quality parameters. Seven existing monitoring wells (MW-3, MW-8, MW-9, MW-10, MW-11, MW-15 and MW-18) were sampled in September and November. Groundwater samples were submitted for chemical of site COCs and additional groundwater quality parameters. Depth to water measurements were collected from the monitoring wells sampled and three additional wells (MW-14, MW-16 and MW-17). This soil and groundwater data was collected to evaluate the current nature and extent of contamination at the site and to assist with design of the planned remedial action.

### 5.1. Shallow Soil Contamination

Gasoline-related contamination in soil is present near the ground surface and within the smear zone surrounding the soil/groundwater interface based on the chemical analytical results. The most contaminated soil was observed close to the northernmost fuel island near the ground surface in boring B-11 where GRPH and the volatiles total xylenes and naphthalene exceeded MTCA Method A CULs in the sample collected from 5 to 6.5 feet bgs (2,200 mg/kg GRPH). Smear zone contamination is associated with contaminated groundwater and is discussed below. Between the near surface contamination and the smear zone, GRPH concentrations were detected at concentrations less than the MTCA Method A CUL in borings B-11 and B-12 between 17.5 and 21 feet bgs and were not detectable in the remaining soil samples collected from this zone.

### 5.2. Groundwater and Smear Zone Contamination

Gasoline-related groundwater contamination was identified just east of the former fuel islands on the Airport Kwik Stop property in monitoring well MW-8, and at the east-adjacent Vacant Property across Highway 31 in monitoring well MW-3 which is approximately 200 feet downgradient. GRPH in these wells slightly exceeded the MTCA Method A CUL in September (1,000  $\mu\text{g}/\text{L}$  in MW-3 and 1,700  $\mu\text{g}/\text{L}$  in MW-8) but were below the CUL in November. GRPH was detected at concentrations below the MTCA Method A CUL at wells further downgradient including MW-9, MW-10 and MW-11, and was not detected in cross-gradient

wells MW-15 and MW-18. These results are consistent with groundwater data collected at the site by Ecology (Ecology 2022).

Note that groundwater was not sampled on the downgradient former Cabin Grill property where GRPH-contamination has historically been present in multiple wells including MW-5. During the last monitoring event conducted in MW-5 in August 2021, the GRPH concentration was 4,160 µg/L GRPH, compared to 8,600 µg/L in MW-8 on the former Airport Kwik Stop property. We understand that the Cabin Grill property owner has not granted access for sampling since August 2021. GRPH-contaminated groundwater is likely still present beneath the former Cabin Grill property based on the 2021 data from wells MW-5 and MW-8 and the 2023 data from MW-8.

Gasoline-related contamination in soil within the smear zone is an order of magnitude lower (approximately 110 to 150 mg/kg) than the observed shallow soil contamination. Smear zone contamination was observed in borings B-8, B-11 and B-12, closest to the fuel islands at depths between approximately 32.5 and 39 feet bgs.

### **5.3. Recommendations**

Shallow soil contamination is present under the canopy and former fuel dispenser islands near B-11 and B-12 above 10 feet bgs. Some of this soil is accessible for a limited remedial excavation without shoring. Assuming a 3-to-5-foot setback from the east face of the former store building and a 1.5 to 1 excavation slope, excavation could reach most contaminated soil above 5 feet bgs and some limited soil below that depth by potholing at the base of the excavation. Alternatively, most of the shallow contamination could be removed using a driven shoring system along the east face of the building which would allow for excavation to approximately 10 feet bgs and more soil access near the building. This scenario would likely only leave contamination directly adjacent to and underneath the building in place.

A proposed excavation area is shown in Figure 5 (approximately 23 by 36 feet), which equates to approximately 307 cubic yards (CY), assuming the contamination extends to 10 feet bgs. Cross-sectional views showing the vertical extent of contamination are shown in Figures 6 and 7.

Contaminated soil below approximately 10 feet bgs and below the footprint of the building which is inaccessible for excavation without additional shoring and/or building removal may be addressed in-situ using injections of remedial agents including but not limited to chemical oxidants and/or biological amendments. In-situ treatment of vadose zone soil would likely require multiple rounds of injection to saturate the soil and allow for adequate contact time. Smear zone contamination should be considered a part of groundwater treatment, as described below.

#### **5.3.1. Groundwater and Smear Zone Remediation**

The groundwater contamination at the site will continue to naturally attenuate, particularly after the source of the contamination in overlying soil is removed. However, in-situ injections of remedial agents including but not limited to activated carbon, chemical oxidants and/or biological amendments on the Airport Kwik Stop property will help speed up the natural attenuation process near the source, particularly where a significant smear zone was observed which will not be accessible via excavation. Directly treating contaminated soil in the smear zone and groundwater is likely necessary to achieve cleanup goals within a reasonable timeframe.

## 6.0 LIMITATIONS

We have prepared this report for the exclusive use of Washington State Department of Ecology and their authorized agents.

Within the limitations of scope, schedule and budget, our services were executed in accordance with generally accepted environmental science practices in this area at the time this report was prepared. The conclusions and opinions presented in this report are based on our professional knowledge, judgment and experience. No warranty or other conditions, express or implied, should be understood.

Please refer to Appendix C, Report Limitations and Guidelines for Use, for additional information pertaining to this report.

## 7.0 REFERENCES

GeoEngineers, Inc. (GeoEngineers) 2017. "In-Situ Remediation Plan, Airport Kwik Stop and Cabin Grill Site, Ione, Washington." May 10, 2017. File No. 0504-058-06.

GeoEngineers. 2023a. "Amendment No. 1, Environmental and Geotechnical Engineering Services, Airport Kwik Stop Soil and Groundwater Cleanup, Ione, Washington." May 12, 2023. File No. 0504-058-07.

GeoEngineers 2023b. "Work Plan, Airport Kwik Stop Soil and Groundwater Cleanup, Data Gap Assessment, Ione, Washington." September 8, 2023. File No. 0504-058-07.

Washington State Department of Ecology (Ecology) 2022. "Environmental Assessment Program, Quarterly Report, Airport Kwik Stop." October 26, 2022.

Washington Department of Ecology. 2013. "Model Toxics Control Act Regulation and Statute, Chapter 173-340 WAC and 70.105D RCW." Revised 2013, Publication 94-06.



**Table 1**  
**Summary of Groundwater Level Measurements<sup>1</sup>**  
**Airport Kwik Stop**  
**Ione, Washington**

Monitoring Well ID	Date Measured	Top of Casing Elevation (feet) <sup>2</sup>	Depth to Water (feet bTOC)	Groundwater Elevation (feet) <sup>2</sup>
MW-3	9/12/23	2,110.17	37.61	2,072.56
	11/29/23		37.86	2,072.31
MW-8	9/12/23	2,109.65	36.84	2,072.81
	11/29/23		37.08	2,072.57
MW-9	9/12/23	2,109.43	37.40	2,072.03
	11/29/23		37.68	2,071.75
MW-10	9/12/23	2,086.42	15.90	2,070.52
	11/29/23		16.06	2,070.36
MW-11	9/12/23	2,093.44	22.30	2,071.14
	11/29/23		22.53	2,070.91
MW-14	9/12/23	2,103.16	31.96	2,071.20
	11/29/23		32.19	2,070.97
MW-15	9/12/23	2,112.90	42.00	2,070.90
	11/29/23		42.21	2,070.69
MW-16	9/12/23	2,085.20	16.10	2,069.10
	11/29/23		16.25	2,068.95
MW-17	9/12/23	2,109.74	37.35	2,072.39
	11/29/23		37.59	2,072.15
MW-18	9/12/23	2,093.57	21.73	2,071.84
	11/29/23		22.09	2,071.48

**Notes:**

<sup>1</sup> Monitoring well locations are shown on Figures 3 and 4.

<sup>2</sup> Elevations are referenced to NAVD88. Top of casing elevation survey performed by Thomas, Dean & Hoskins, Inc. (TD&H).

NAVD88 = North American Vertical Datum of 1988



**Table 2**  
**Chemical Analytical Results - Soil<sup>1</sup>**  
 Airport Kwik Stop  
 Lone, Washington

Boring ID	Sample Depth (feet bgs)	Sample Date	Volatile Organic Compounds <sup>2</sup> (mg/kg)					Petroleum Hydrocarbons <sup>3</sup> (mg/kg)	Metals <sup>4</sup> (mg/kg)					Organic Carbon <sup>5</sup> (mg/kg)	
			Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	Gasoline-range (GRPH)	Calcium	Iron	Magnesium	Manganese	Potassium	Sodium	Total Organic Carbon
B-8	12.5 to 14	9/13/2023	0.026 U	0.034 U	0.041 U	0.07 U	0.072 U	4.6 U	--	--	--	--	--	--	--
	25 to 26.5	9/13/2023	0.024 U	0.032 U	0.039 U	0.12 U	0.068 U	4.4 U	--	--	--	--	--	--	--
	37.5 to 39	9/13/2023	0.021 U	0.028 U	0.035 U	0.11 U	<b>0.11 J</b>	<b>650</b>	--	--	--	--	--	--	--
	40 to 41.5	9/13/2023	0.017 U	<b>0.057 J</b>	0.027 U	0.086 U	0.047 U	<b>110</b>	<b>15,000</b>	<b>7,900</b>	<b>7,800</b>	<b>170</b>	<b>520</b>	<b>92 J</b>	<b>5,200</b>
B-9	12.5 to 14	9/13/2023	0.024 U	0.032 U	0.040 U	0.13 U	0.068 U	4.4 U	--	--	--	--	--	--	--
	27.5 to 29	9/13/2023	0.022 U	0.030 U	0.036 U	0.12 U	0.063 U	4.0 U	--	--	--	--	--	--	--
	37.5 to 39	9/13/2023	0.021 UJ	0.029 UJ	0.035 UJ	0.11 UJ	0.060 UJ	<b>34 J</b>	--	--	--	--	--	--	--
B-10	40 to 41.5	9/13/2023	0.023 UJ	<b>0.28 J</b>	0.038 UJ	0.12 UJ	0.065 UJ	<b>11 J</b>	<b>13,000</b>	<b>9,700</b>	<b>7,600</b>	<b>140</b>	<b>540</b>	<b>91 J</b>	<b>3,100</b>
	10 to 11.5	9/14/2023	0.028 U	0.037 U	0.045 U	0.15 U	0.079 U	5.1 U	--	--	--	--	--	--	--
	25 to 26.5	9/14/2023	0.025 U	0.034 U	0.041 U	0.13 U	0.071 U	4.6 U	--	--	--	--	--	--	--
	32.5 to 34	9/14/2023	0.0095 U	0.013 U	0.015 U	0.049 U	0.027 U	1.7 U	--	--	--	--	--	--	--
B-11	40 to 41.5	9/14/2023	0.017 U	0.023 U	0.028 U	0.089 U	0.048 U	3.1 U	--	--	--	--	--	--	--
	5 to 6.5	9/14/2023	0.020 U	<b>0.31</b>	<b>0.31</b>	<b>109</b>	<b>12</b>	<b>2,200</b>	<b>3,200</b>	<b>21,000</b>	<b>4,500</b>	<b>410</b>	<b>2,000</b>	<b>150</b>	<b>1,300 J</b>
	20 to 21.5	9/14/2023	0.025 U	0.033 U	0.040 U	0.13 U	<b>0.36 J</b>	<b>51</b>	--	--	--	--	--	--	--
	32.5 to 34	9/14/2023	0.021 U	0.027 U	0.033 U	<b>3.8</b>	<b>0.62</b>	<b>120</b>	--	--	--	--	--	--	--
B-12	40 to 41.5	9/14/2023	0.023 U	<b>0.039 J</b>	0.037 U	0.12 U	0.064 U	<b>5.1 J</b>	--	--	--	--	--	--	--
	5 to 6.5	9/14/2023	0.021 U	<b>0.073 J</b>	0.034 U	0.11 U	<b>0.19 J</b>	<b>400</b>	<b>3,400</b>	<b>21,000</b>	<b>4,500</b>	<b>390</b>	<b>2,000</b>	<b>160</b>	<b>1,500</b>
	17.5 to 19	9/14/2023	0.026 U	0.034 U	0.042 U	0.13 U	0.072 U	<b>13</b>	--	--	--	--	--	--	--
	37.5 to 39	9/14/2023	0.021 U	<b>0.055 J</b>	0.034 U	0.11 U	<b>0.11 J</b>	<b>150</b>	--	--	--	--	--	--	--
MTCA Method A CUL <sup>6</sup>			0.03	7	6	9	5	30/100 <sup>7</sup>	NE	NE	NE	NE	NE	NE	NE

**Notes:**

<sup>1</sup> Samples analyzed by Eurofins Environment Testing Northwest located in Spokane Valley, Washington. Sample Locations are shown on Figure 2.

<sup>2</sup> Volatile organic compounds analyzed using United States Environmental Protection Agency (EPA) Method 8260D.

<sup>3</sup> Gasoline-range petroleum hydrocarbons analyzed using Northwest Method NWTPH-Gx.

<sup>4</sup> Metals analyzed using EPA Method 6010D.

<sup>5</sup> Total organic carbon analyzed using EPA Method 9060A.

<sup>6</sup> Washington State Model Toxics Control Act (MTCA) Method A cleanup level (CUL) for unrestricted land use.

<sup>7</sup> When benzene is present, the gasoline range cleanup level is 30 mg/kg. When benzene is not present the gasoline range cleanup level is 100 mg/kg.

bgs = below ground surface

mg/kg = milligrams per kilogram

NE = not established

-- = not analyzed

U = analyte was not detected above the laboratory method detection limit (MDL)

J = estimated concentration

**Bold** indicates analyte was detected.

**Bold** with gray shading indicates the analyte was detected at a concentration greater than the MTCA Method A cleanup level.

**Table 3**  
**Chemical Analytical Results - Groundwater<sup>1</sup>**  
 Airport Kwik Stop  
 Lone, Washington

Monitoring Well ID	Sample ID	Sample Date	Volatile Organic Compounds <sup>2</sup> (µg/L)						Petroleum Hydrocarbons <sup>3</sup> (µg/L)	Dissolved Gases <sup>4</sup> (µg/L)	Anions <sup>5</sup> (µg/L)		Total Metals <sup>6</sup> (µg/L)		Dissolved Metals <sup>6,7</sup> (µg/L)		Alkalinity <sup>8</sup> (µg/L)	Organic Carbon <sup>9</sup> (µg/L)
			Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	GRPH	Methane	Nitrate	Sulfate	Iron	Manganese	Iron	Manganese	Alkalinity	Total Organic Carbon	
MW-3	MW-3:091523	9/15/2023	0.093 U	0.31 U	<b>1.90</b>	<b>4.0</b>	<b>3.6</b>	<b>1,000</b>	0.63 U	57 UJ	<b>13,000</b>	<b>7,100</b>	<b>1,200</b>	91 J	890	<b>160,000</b>	<b>5,000</b>	
	MW-3:113023	11/30/2023	0.093 U	0.31 U	<b>1.90</b>	<b>5.1</b>	<b>3.6</b>	<b>540</b>	0.63	<b>320</b>	<b>14,000</b>	<b>7,700</b>	<b>690</b>	85	700	<b>290,000</b>	<b>2,700</b>	
MW-8	MW-8:091223	9/12/2023	0.093 U	<b>0.32</b> J	0.20 U	0.44 U	0.94 U	<b>1,700</b>	0.63 U	<b>2,300</b> J	<b>150,000</b>	<b>880</b>	<b>620</b>	<b>77</b> J	<b>460</b>	<b>340,000</b>	<b>4,500</b>	
	MW-8:113023	11/30/2023	<b>0.670</b>	0.31 U	<b>0.48</b>	<b>1.8</b>	<b>0.8</b> J	<b>380</b> J	<b>3.1</b> J	<b>1,700</b> J	<b>430,000</b> J	<b>1,800</b> J	<b>1,200</b> J	85	<b>1,600</b> J	<b>420,000</b>	<b>3,400</b>	
MW-9	MW-9:091523	9/15/2023	0.093 U	0.31 U	0.20 U	0.44 U	0.63 U	48 U	0.63 U	<b>4,700</b> J	<b>18,000</b>	<b>300</b>	<b>350</b>	<b>65</b> J	<b>0.70</b> J	<b>170,000</b>	<b>2,100</b>	
	MW-9:113023	11/30/2023	0.093 U	0.31 U	0.20 U	0.28 U	0.63 U	54 U	0.63 U	<b>4,100</b>	<b>14,000</b>	<b>110</b>	<b>80</b>	67 U	2.30	<b>210,000</b>	<b>350</b>	
MW-10	MW-10:091523	9/15/2023	0.093 U	0.31 U	0.20 U	0.44 U	0.63 U	47 U	--	--	--	--	--	--	--	--	--	
	MW-10:112923	11/29/2023	0.093 U	0.31 U	0.20 U	0.28 U	0.63 U	54 U	--	--	--	--	--	--	--	--	--	
MW-11	MW-11:091523	9/15/2023	0.093 U	0.31 U	0.20 U	0.44 U	0.63 U	46 U	--	--	--	--	--	--	--	--	--	
	MW-11:112923	11/29/2023	0.093 U	0.31 U	0.20 U	0.28 U	0.63 U	54 U	--	--	--	--	--	--	--	--	--	
MW-15	MW-15:091523	9/15/2023	0.093 U	0.31 U	0.20 U	0.44 U	0.63 U	31 U	--	--	--	--	--	--	--	--	--	
	MW-15:112923	11/29/2023	0.093 U	0.31 U	0.20 U	0.28 U	0.63 U	54 U	--	--	--	--	--	--	--	--	--	
MW-18	MW-18:091523	9/15/2023	0.093 U	0.31 U	0.20 U	0.44 U	0.63 U	31 U	0.63 U	<b>560</b> J	<b>3800</b>	<b>58</b> J	<b>1.3</b> J	<b>49</b> J	0.46 U	<b>160,000</b>	<b>1600</b>	
	MW-18:112923	11/29/2023	0.093 U	0.31	0.20 U	0.28 U	0.63 U	54 U	--	--	--	--	--	--	--	--	--	
<b>MTCA Method A CUL<sup>10</sup></b>			5	1,000	700	1,000	160	800/1,000 <sup>11</sup>	NE	NE	NE	NE	NE	NE	NE	NE	NE	

**Notes:**

<sup>1</sup> Samples analyzed by Eurofins Environment Testing Northwest (Eurofins) located in Spokane Valley, Washington. Sample Locations are Shown on Figures 3 and 4.

<sup>2</sup> Volatile organic compounds analyzed using United States Environmental Protection Agency (EPA) Method 8260D.

<sup>3</sup> Gasoline-range petroleum hydrocarbons (GRPH) analyzed using Northwest Method NWTPH-Gx.

<sup>4</sup> Dissolved Gases including methane analyzed using RSK-175.

<sup>5</sup> Anions including nitrate and sulfate analyzed using EPA Method 300.0.

<sup>6</sup> Total and Dissolved Metals analyzed using EPA Method 200.8.

<sup>7</sup> Dissolved metals were lab-filtered.

<sup>8</sup> Alkalinity analyzed using Standard Method (SM) 2320B.

<sup>9</sup> Total organic carbon (TOC) analyzed using SM 5310C.

<sup>10</sup> Washington State Model Toxics Control Act (MTCA) cleanup level (CUL).

<sup>11</sup> When benzene is present, the gasoline range cleanup level is 800 µg/L. When benzene is not present the gasoline range cleanup level is 1,000 µg/L.

NE = not established

-- = not analyzed

µg/L = microgram per liter

U = analyte was not detected above the laboratory method detection limit (MDL)

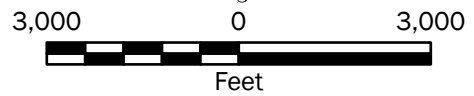
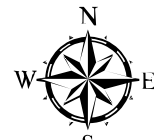
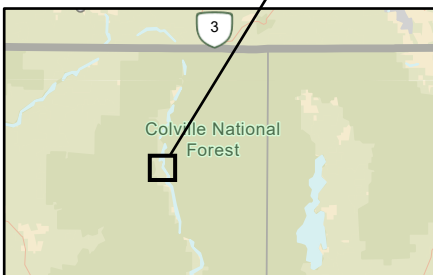
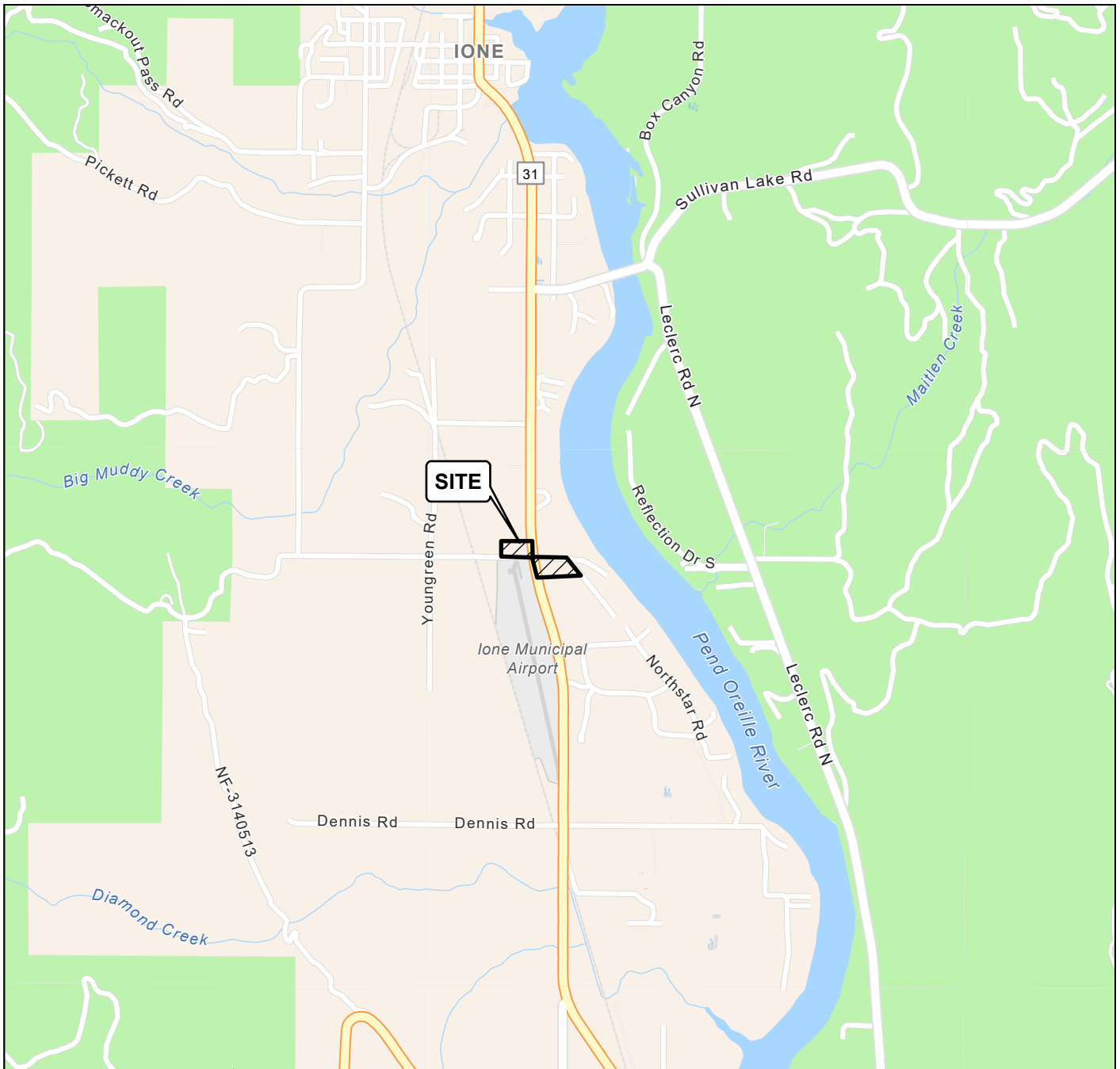
J = estimated concentration

B = analyte detected in laboratory method blank and the sample

**Bold** indicates analyte was detected.

**Bold** with gray shading indicates the analyte was detected at concentrations greater than the MTCA Method A cleanup level.





**Vicinity Map**

Airport Kwik Stop  
Lone, Washington



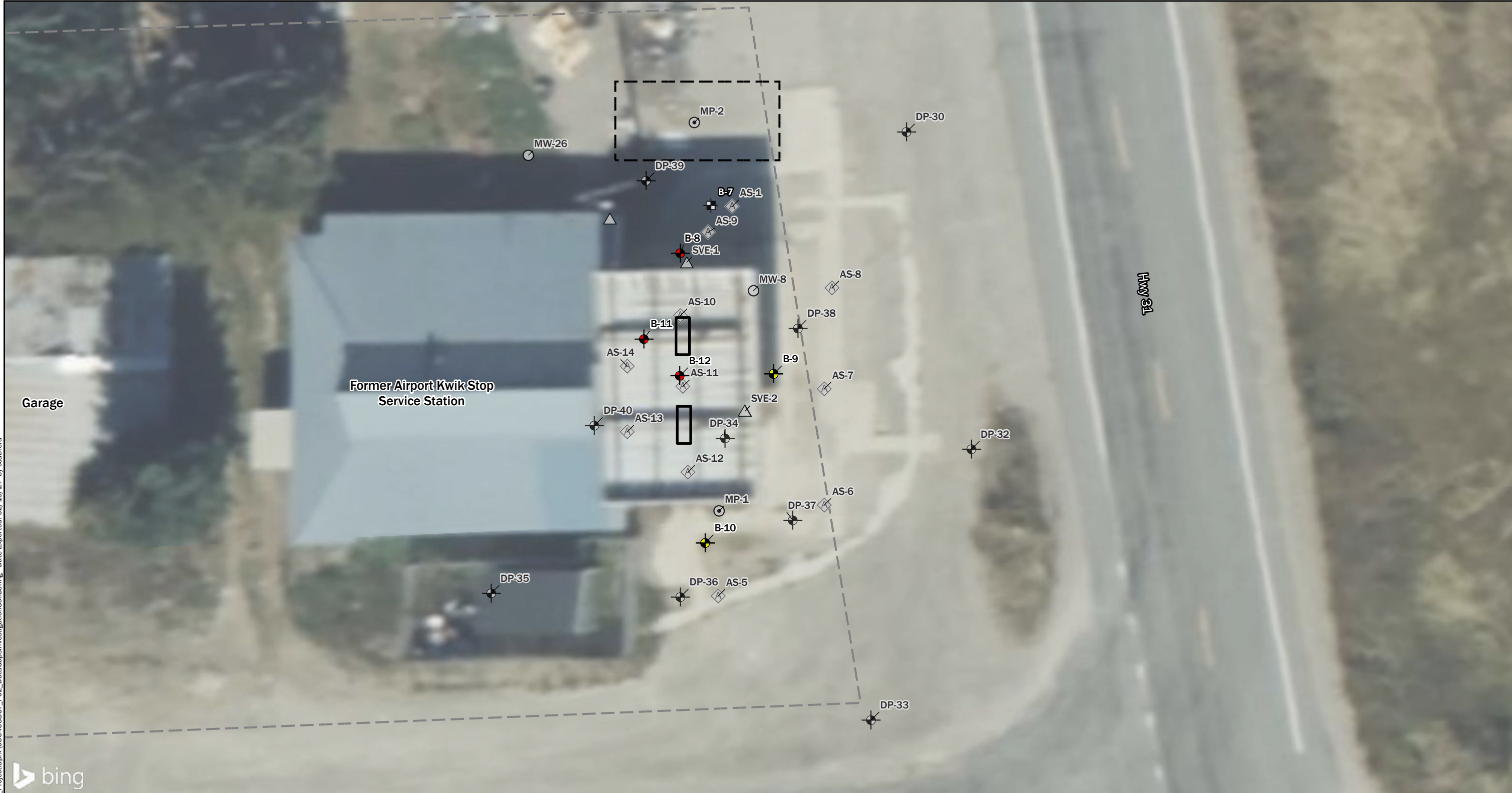
**Figure 1**

**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

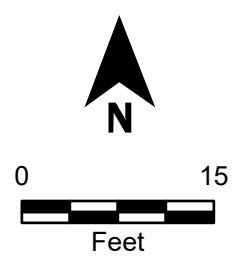
Projection: NAD 1983 UTM Zone 11N



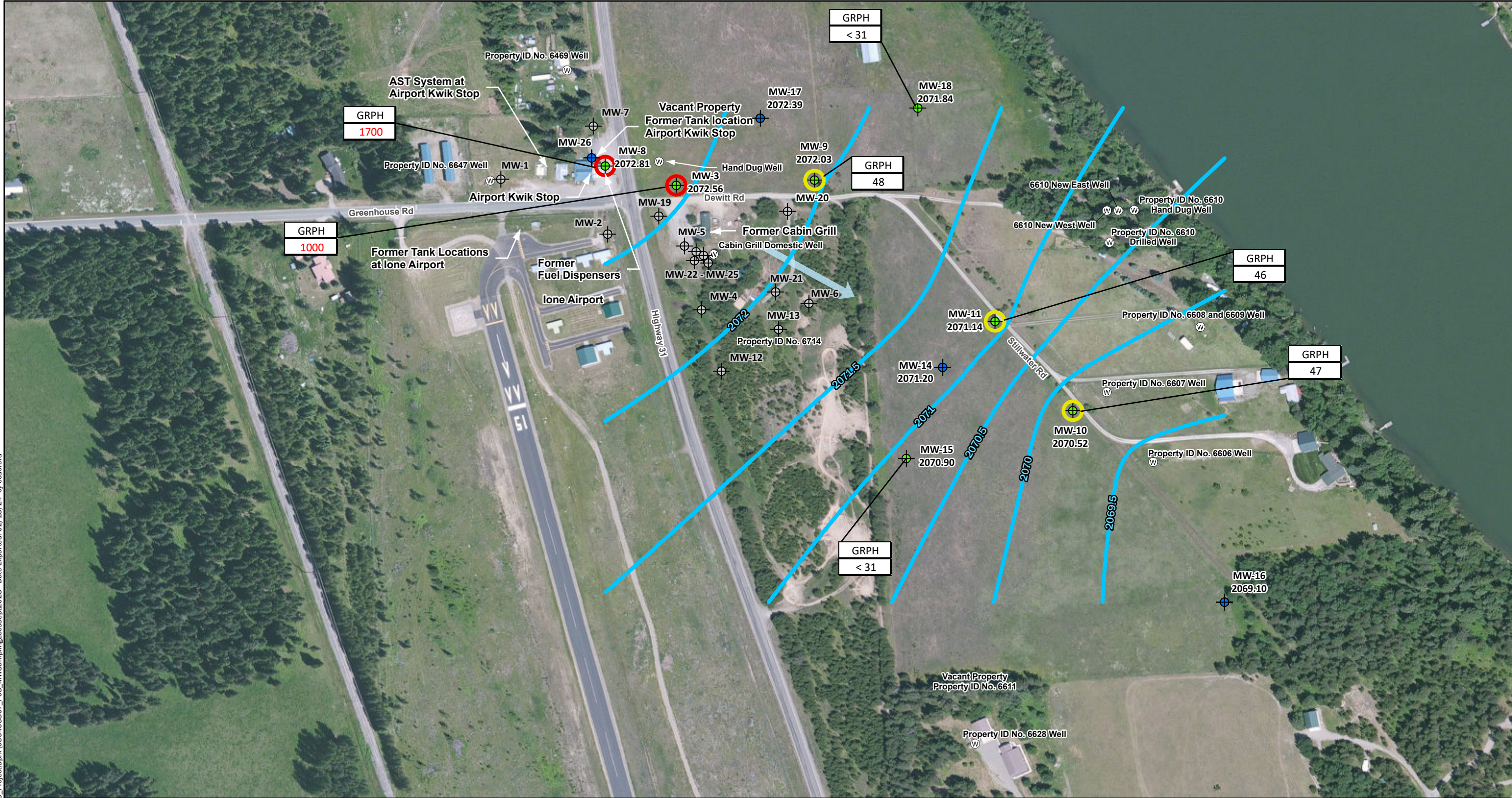
P:\0\_0504058\GIS\0504058\_Project\0504058\_F02\_DataGapsInvestigation\SoilBoring Date Exported: 02/15/24 by ccaברה

**Notes:**  
 1. GRPH = Gasoline-range petroleum hydrocarbons.  
 2. MTCA = Model Toxics Control Act.  
 3. Milligrams per kilogram = mg/kg  
 Source(s):  
 • Pend Oreille County GIS  
 • Bing Imagery  
 Coordinate System: NAD 1983 StatePlane Washington North FIPS 4601 Feet  
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- Legend**
- B-8 Soil Boring Location for Data Gaps Investigation
  - Concentration Greater than MTCA Method A Cleanup Level (100 mg/kg)
  - Concentration Detected Less than MTCA Method A Cleanup Level (100 mg/kg)
  - DP-1 Approximate Location of Former Direct-Push Boring
  - MW-1 Approximate Location of Former Monitoring Well
  - MP-1 Approximate Location of Former 2" Monitoring Point
  - SVE-1 Approximate Location of Former 4" SVE Extraction Well
  - AS-1 Approximate Location of Former Air Sparge Pilot Well
  - Approximate Location of Former USTs
  - Approximate Fuel Dispenser Island Location
  - Property Boundary
  - Approximate Parcel Boundary



<b>Data Gaps Investigation Soil Borings</b>	
Airport Kwik Stop lone, Washington	
	<b>Figure 2</b>



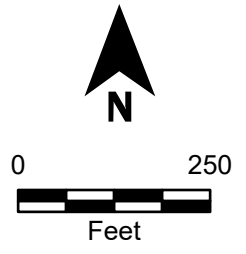
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**Notes:**  
 1. Gasoline-range petroleum hydrocarbons (GRPH) concentrations listed are in micrograms per liter (µg/L).  
 2. MTCA = Model Toxics Control Act.

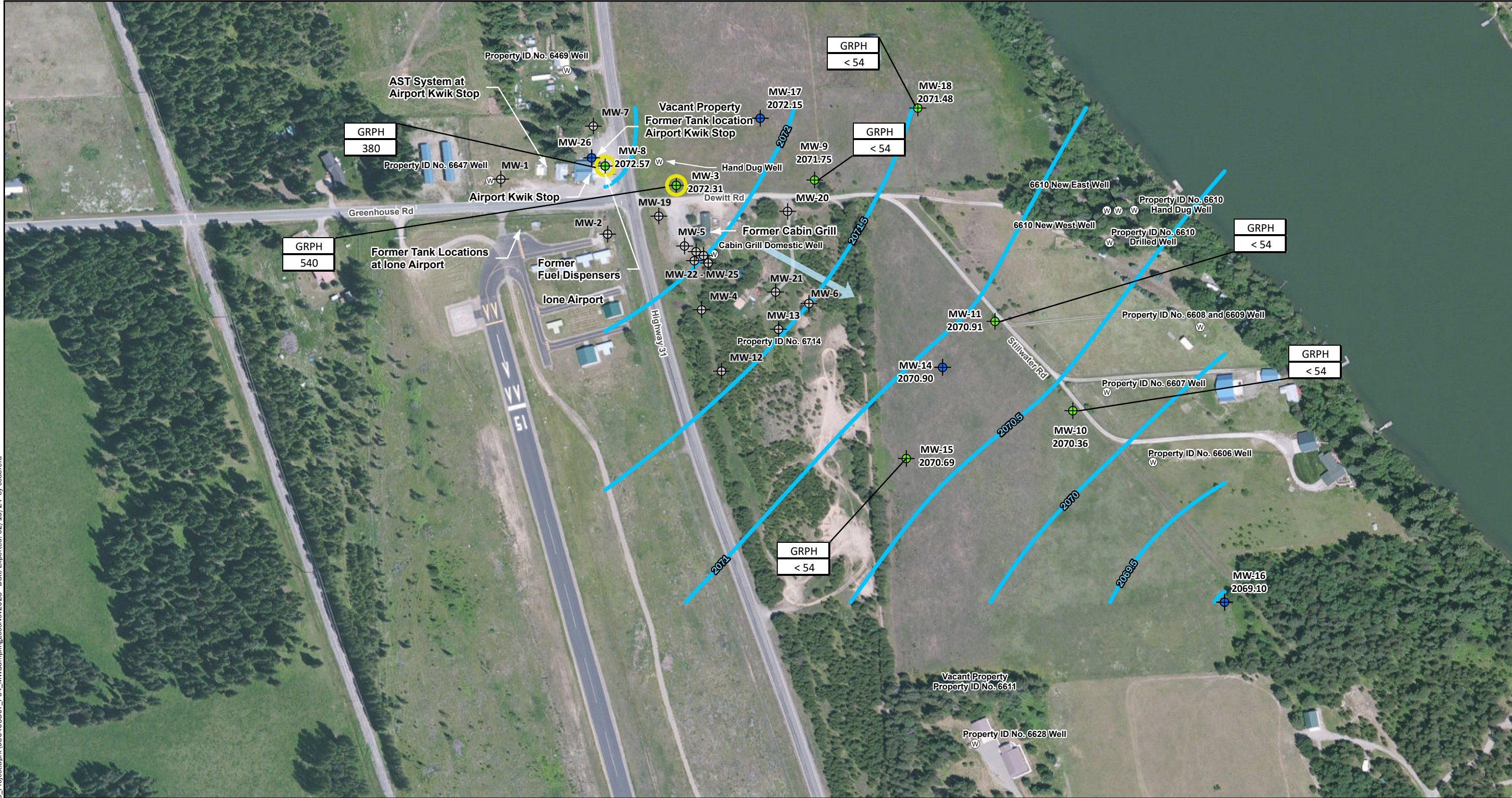
Source(s):  
 • Bing Imagery  
 Coordinate System: NAD 1983 StatePlane Washington North FIPS 4601 Feet

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- Legend**
- Monitoring Well Where Depth to Water Readings were Obtained September 2023
  - Monitoring Well Sampled in September 2023
  - Existing Monitoring Well
  - Approximate Location of Existing Water Well
  - Approximate Interpolated Groundwater Contour
  - Interpreted Groundwater Flow Direction
  - Contaminant Concentrations Greater than MTCA Method A Cleanup Levels
  - Concentration GRPH Detected Less than MTCA Method A Cleanup Level (800 µg/L)



<b>September 2023 Groundwater Monitoring Locations and Results</b>	
Airport Kwik Stop Lone, Washington	
	<b>Figure 3</b>



**Notes:**

- 1. Gasoline-range petroleum hydrocarbons (GRPH) concentrations listed are in micrograms per liter ( $\mu\text{g/L}$ ).
- 2. MTCA = Model Toxics Control Act.








**Source(s):**

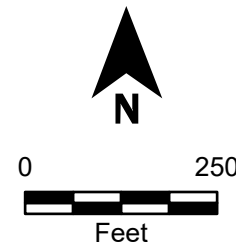
- Bing Imagery

Coordinate System: NAD 1983 StatePlane Washington North FIPS 4601 Feet

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**Legend**

-  Monitoring Well Where Depth to Water Readings were Obtained in November 2023
-  Monitoring Well Sampled in November 2023
-  Existing Monitoring Well
-  Approximate Location of Existing Water Well
-  Approximate Interpolated Groundwater Contour
-  Interpreted Groundwater Flow Direction
-  Concentration GRPH Detected Less than MTCA Method A Cleanup Level ( $800 \mu\text{g/L}$ )

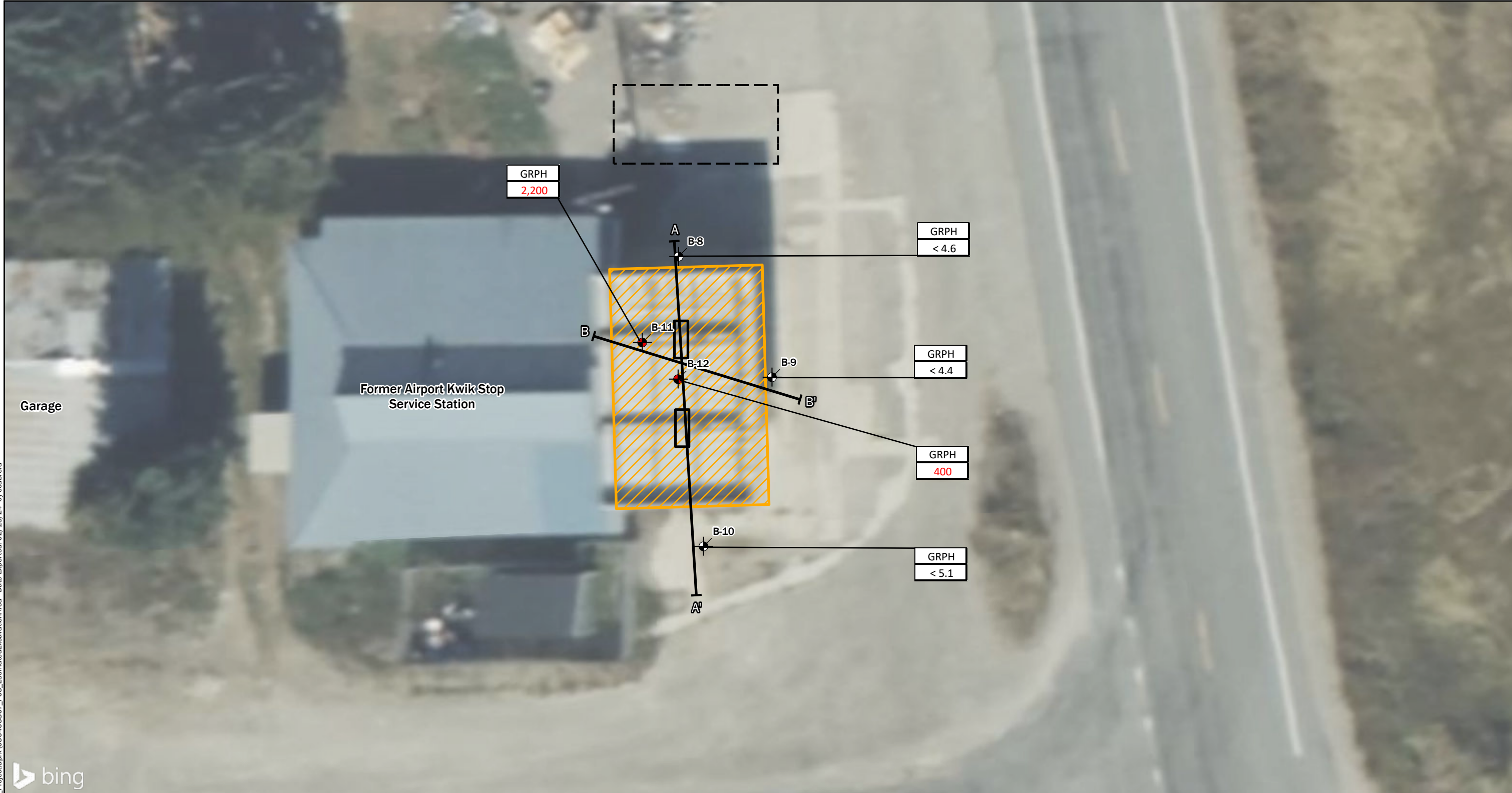


**November 2023 Groundwater Monitoring Locations and Results**

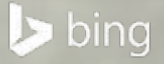
Airport Kwik Stop  
Lone, Washington



Figure 4



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**Notes:**  
 1. GRPH = Gasoline-range petroleum hydrocarbons  
 2. mg/kg = milligrams per kilogram  
 3. UST = underground storage tank  
 4. MTCA = model toxics control act  
 5. bgs = below ground surface.

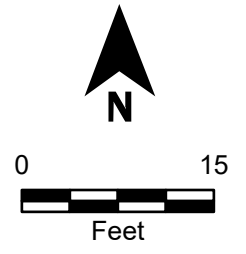
Source(s):  
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Coordinate System: NAD 1983 StatePlane Washington North FIPS 4601 Feet

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**Legend**

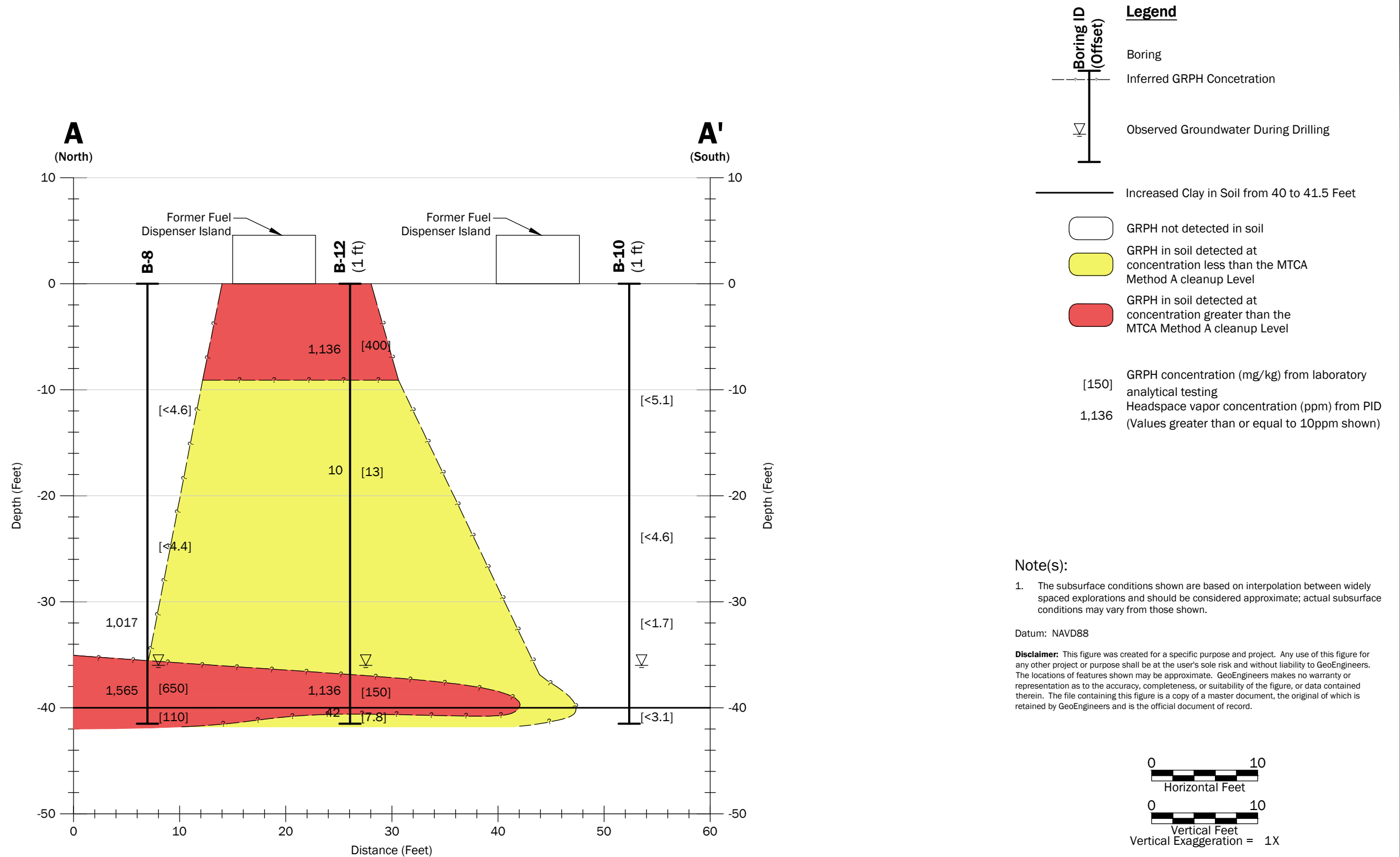
- B-8 Soil Boring
- GRPH concentration in soil greater than the MTCA Method A Cleanup Level (100 mg/kg) between approximately 0 and 10 feet bgs
- Approximate Location of Former USTs
- Approximate Fuel Dispenser Island Location
- Proposed Excavation Area
- Cross Section



<b>Proposed Shallow Excavation Area</b>	
Airport Kwik Stop Ione, Washington	
	<b>Figure 5</b>



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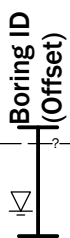
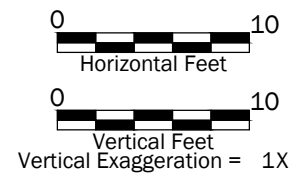
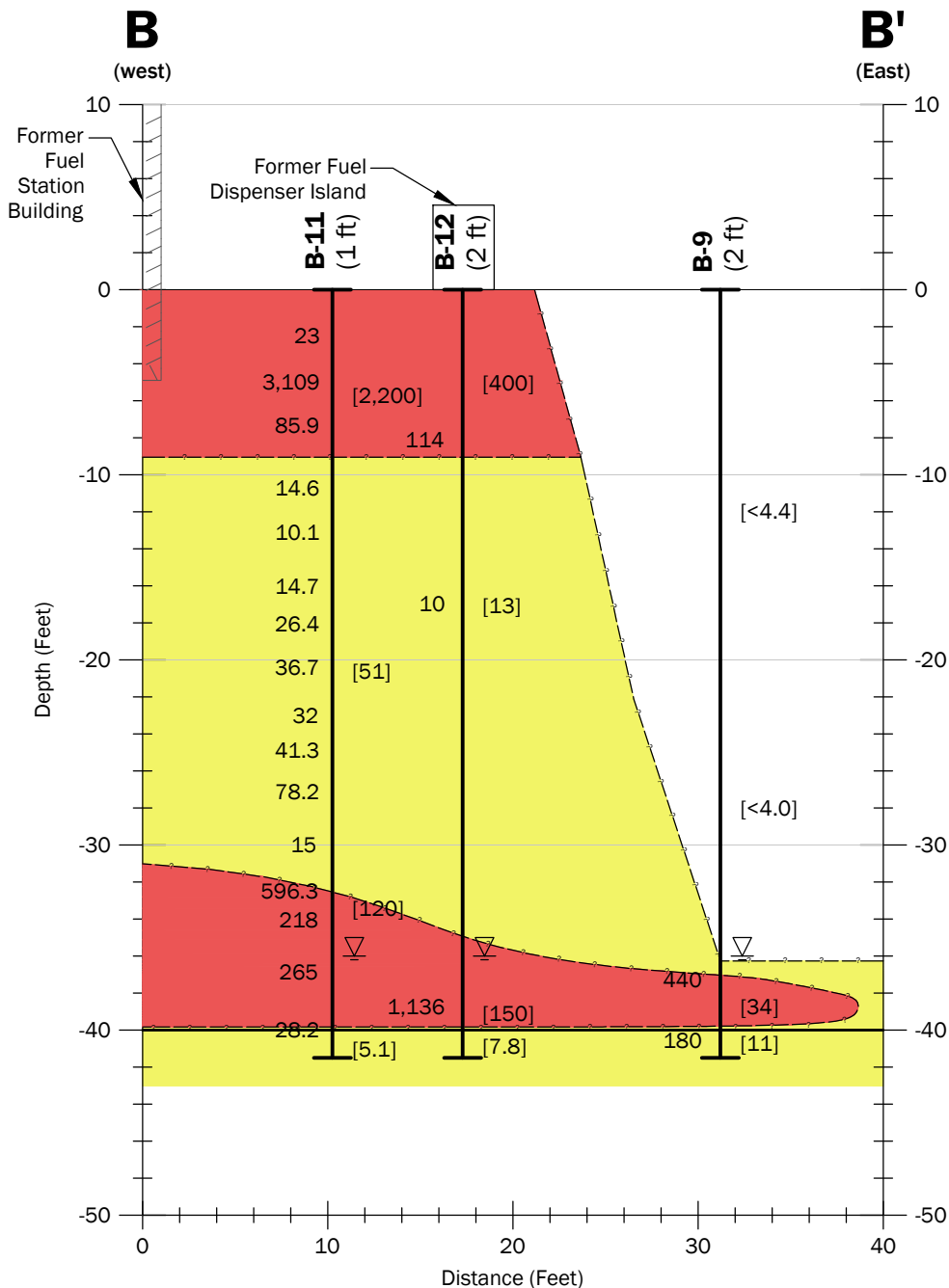


**Cross Section A-A'**

Airport Kwik Stop  
Ione, Washington

**GEOENGINEERS**

Figure 6



**Legend**

- Increased clay in soil from 40 to 41.5 feet
- GRPH not detected in soil
- GRPH in soil detected at concentration less than the MTCA Method A cleanup Level
- GRPH in soil detected at concentration greater than the MTCA Method A cleanup Level
- Observed Groundwater During Drilling
- GRPH concentration (mg/kg) from laboratory analytical testing
- Headspace vapor concentration (ppm) from PID (Values greater than or equal to 10ppm shown)

**Note(s):**

1. The subsurface conditions shown are based on interpolation between widely spaced explorations and should be considered approximate; actual subsurface conditions may vary from those shown.

Datum: NAVD88

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**Cross Section B-B'**

Airport Kwik Stop  
Ione, Washington

Figure 7

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**APPENDIX A**  
**Boring Logs**

## SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS		TYPICAL DESCRIPTIONS
			GRAPH	LETTER	
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	CLEAN GRAVELS <small>(LITTLE OR NO FINES)</small>		<b>GW</b>	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES
		GRAVELS WITH FINES <small>(APPRECIABLE AMOUNT OF FINES)</small>		<b>GP</b>	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES
		CLEAN SANDS <small>(LITTLE OR NO FINES)</small>		<b>SW</b>	WELL-GRADED SANDS, GRAVELLY SANDS
		SANDS WITH FINES <small>(APPRECIABLE AMOUNT OF FINES)</small>		<b>SP</b>	POORLY-GRADED SANDS, GRAVELLY SAND
	SAND AND SANDY SOILS	SANDS WITH FINES <small>(APPRECIABLE AMOUNT OF FINES)</small>		<b>SM</b>	SILTY SANDS, SAND - SILT MIXTURES
		CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES		<b>GC</b>	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
		CLAYEY SANDS, SAND - CLAY MIXTURES		<b>SC</b>	CLAYEY SANDS, SAND - CLAY MIXTURES
		INORGANIC SILTS, ROCK FLOUR, CLAYEY SILTS WITH SLIGHT PLASTICITY		<b>ML</b>	INORGANIC SILTS, ROCK FLOUR, CLAYEY SILTS WITH SLIGHT PLASTICITY
FINE GRAINED SOILS	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		<b>CL</b>	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
		LIQUID LIMIT GREATER THAN 50		<b>CH</b>	INORGANIC CLAYS OF HIGH PLASTICITY
		LIQUID LIMIT GREATER THAN 50		<b>OH</b>	ORGANIC CLAYS AND SILTS OF MEDIUM TO HIGH PLASTICITY
	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		<b>OL</b>	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
		LIQUID LIMIT GREATER THAN 50		<b>MH</b>	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS SILTY SOILS
		LIQUID LIMIT GREATER THAN 50		<b>PT</b>	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS
HIGHLY ORGANIC SOILS				<b>PT</b>	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

NOTE: Multiple symbols are used to indicate borderline or dual soil classifications

### Sampler Symbol Descriptions

	2.4-inch I.D. split barrel / Dames & Moore (D&M)
	Standard Penetration Test (SPT)
	Shelby tube
	Piston
	Direct-Push
	Bulk or grab
	Continuous Coring

Blowcount is recorded for driven samplers as the number of blows required to advance sampler 12 inches (or distance noted). See exploration log for hammer weight and drop.

"P" indicates sampler pushed using the weight of the drill rig.

"WOH" indicates sampler pushed using the weight of the hammer.

NOTE: The reader must refer to the discussion in the report text and the logs of explorations for a proper understanding of subsurface conditions. Descriptions on the logs apply only at the specific exploration locations and at the time the explorations were made; they are not warranted to be representative of subsurface conditions at other locations or times.

## ADDITIONAL MATERIAL SYMBOLS

SYMBOLS		TYPICAL DESCRIPTIONS
GRAPH	LETTER	
	<b>AC</b>	Asphalt Concrete
	<b>CC</b>	Cement Concrete
	<b>CR</b>	Crushed Rock/ Quarry Spalls
	<b>SOD</b>	Sod/Forest Duff
	<b>TS</b>	Topsoil

### Groundwater Contact



Measured groundwater level in exploration, well, or piezometer



Measured free product in well or piezometer

### Graphic Log Contact



Distinct contact between soil strata



Approximate contact between soil strata

### Material Description Contact



Contact between geologic units



Contact between soil of the same geologic unit

### Laboratory / Field Tests

%F	Percent fines
%G	Percent gravel
AL	Atterberg limits
CA	Chemical analysis
CP	Laboratory compaction test
CS	Consolidation test
DD	Dry density
DS	Direct shear
HA	Hydrometer analysis
MC	Moisture content
MD	Moisture content and dry density
Mohs	Mohs hardness scale
OC	Organic content
PM	Permeability or hydraulic conductivity
PI	Plasticity index
PL	Point load test
PP	Pocket penetrometer
SA	Sieve analysis
TX	Triaxial compression
UC	Unconfined compression
UU	Unconsolidated undrained triaxial compression
VS	Vane shear

### Sheen Classification

NS	No Visible Sheen
SS	Slight Sheen
MS	Moderate Sheen
HS	Heavy Sheen

## Key to Exploration Logs

Start Drilled 9/13/2023	End 9/13/2023	Total Depth (ft) 41.5	Logged By Checked By LTO JDO	Driller Cascade Drilling	Drilling Method Hollow-stem Auger
Surface Elevation (ft) Vertical Datum Undetermined		Hammer Data 140 (lbs) / 30 (in) Drop		Drilling Equipment SCME-55	
Easting (X) Northing (Y)		System Datum		Groundwater not measured at time of exploration	
Notes:					

Elevation (feet)	FIELD DATA					Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing					
0						SP	Brown coarse sand with occasional gravel (loose, moist)			
		8	19		B-8 (2.5-4)			NS	2.7	
5		15	21		B-8 (5-6.5)	SP	Brown fine sand (loose, moist)	NS	3.8	
		13	22		B-8 (7.5-9)			NS	1.7	
10		12	21		B-8 (10-11.5)			NS	2.7	
		12	22		B-8 (12.5-14) CA			NS	1.8	
15		10	26		B-8 (15-16.5)		Become loose to medium dense	NS	1.6	
		12	29		B-8 (17.5-19)		Becomes medium dense	NS	2.3	
20		17	31		B-8 (20-21.5)			NS	3.3	
		17	40		B-8 (22.5-24)			NS	8.5	
25		14	40		B-8 (25-26.5) CA			NS	3.9	
		9	42		B-8 (27.5-29)	SP	Gray fine to medium sand with occasional gravel (medium dense, moist)	NS	4.5	
30		10	43		B-8 (30-31.5)			NS	2.9	
		13	54		B-8 (32.5-34)			NS	1.6	
35										

Note: See Figure A-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on . Vertical approximated based on .

Date: 10/17/23 Path: \\00504058\GINT\050405807.GPJ\DBLibrary\Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\GEB\_ENVIRONMENTAL\_STANDARD\_NO\_GW

### Log of Boring B-8



Project: Airport Kwik Stop  
Project Location: Ione, Washington  
Project Number: 0504-058-07

Figure A-2  
Sheet 1 of 2

Date: 10/17/23 Path: P:\0\_0504058\GINT\0504058-07.GPJ DBL\Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\GEB\_ENVIRONMENTAL\_STANDARD\_NO\_GW

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample Sample Name Testing						
35		10	56	B-8 (35-36.5)				NS	1017	
		4	36	B-8 (37.5-39) CA		SP	Gray coarse sand (medium dense, wet)	SS	1565	Petroleum odor
40		10	43	B-8 (40-41.5) CA			Trace clay	NS	<1	Petroleum odor

**Log of Boring B-8 (continued)**



Project: Airport Kwik Stop  
 Project Location: Lone, Washington  
 Project Number: 0504-058-07

Start Drilled	9/13/2023	End	9/13/2023	Total Depth (ft)	41.5	Logged By	LTO	Checked By	JDO	Driller	Cascade Drilling	Drilling Method	Hollow-stem Auger
Surface Elevation (ft) Vertical Datum	Undetermined				Hammer Data	140 (lbs) / 30 (in) Drop			Drilling Equipment	SCME-55			
Easting (X) Northing (Y)					System Datum	Groundwater not measured at time of exploration							
Notes:													

Elevation (feet)	FIELD DATA					Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing						
0							SP				
5		12	21		B-9 (2.5-4)			Brown fine sand with silt (medium dense, moist)	NS	1.8	
		13	20		B-9 (5-6.5)				NS	1.0	
		15	27		B-9 (7.5-9)				NS	1.1	
10		15	23		B-9 (10-11.5)			Becomes loose	NS	1.4	
		16	31		B-9 (12.5-14) CA			Become medium dense	NS	2.4	
15		14	32		B-9 (15-16.5)				NS	2.0	
		15	35		B-9 (17.5-19)				NS	1.2	
20		15	38		B-9 (20-21.5)				NS	<1	
		15	39		B-9 (22.5-24)				NS	1.3	
25		13	33		B-9 (25-26.5)				NS	<1	
		11	41		B-9 (27.5-29) CA			Occasional gravel	NS	1.2	
30		11	38		B-9 (30-31.5)				NS	1.4	
		15	42		B-9 (32.5-34)				NS	<1	
35											

Note: See Figure A-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on . Vertical approximated based on .

### Log of Boring B-9



Project: Airport Kwik Stop  
Project Location: Ione, Washington  
Project Number: 0504-058-07

Figure A-3  
Sheet 1 of 2

Date: 10/17/23 Path: P:\0504058\GINT\050405807.GPJ DBL\Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\GEB\_ENVIRONMENTAL\_STANDARD\_NO\_GW



Date: 10/17/23 Path: P:\0\_0504058\GINT\0504058-07.GPJ DBL\Library\Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\GEB\_ENVIRONMENTAL\_STANDARD\_NO\_GW

Elevation (feet)	FIELD DATA					MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS		
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing					Graphic Log	Group Classification
35		15	49		B-9 (35-36.5)		SP	Brown coarse sand with occasional gravel (medium dense)	NS	1.0	
		14	36		B-9 (37.5-39) CA			Becomes wet	NS	440	Petroleum odor
40		13	27		B-9 (40-41.5) CA			Trace clay	NS	180	Petroleum odor

**Log of Boring B-9 (continued)**



Project: Airport Kwik Stop  
 Project Location: Lone, Washington  
 Project Number: 0504-058-07

Drilled	Start 9/14/2023	End 9/14/2023	Total Depth (ft)	41.5	Logged By Checked By	LTO JDO	Driller	Cascade Drilling	Drilling Method	Hollow-stem Auger	
Surface Elevation (ft) Vertical Datum			Undetermined		Hammer Data		140 (lbs) / 30 (in) Drop		Drilling Equipment		SCME-55
Easting (X) Northing (Y)			System Datum		Groundwater not measured at time of exploration						
Notes:											

Elevation (feet)	FIELD DATA					Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing						
0							SP				
5		5	29	B-10 (5-6.5)				Brown fine sand with occasional gravel (medium dense, moist)	NS	<1	
10		14	30	B-10 (10-11.5) CA					NS	<1	
15		15	36	B-10 (15-16.5)					NS	<1	
20		14	44	B-10 (20-21.5)			SP	Brown fine to coarse sand (medium dense, moist)	NS	<1	
25		10	36	B-10 (22.5-24)					NS	<1	
25		12	43	B-10 (25-26.5) CA					NS	<1	
30		13	47	B-10 (27.5-29)					NS	<1	
30		12	46	B-10 (30-31.5)				Becomes coarse sand	NS	<1	
35		11	41	B-10 (32.5-34) CA					NS	<1	


Note: See Figure A-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on . Vertical approximated based on .

### Log of Boring B-10



Project: Airport Kwik Stop  
Project Location: Ione, Washington  
Project Number: 0504-058-07

Date: 10/17/23 Path: P:\0504058\GINT\0504058-07.GPJ DBL\Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\GEB\_ENVIRONMENTAL\_STANDARD\_NO\_GW

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample Sample Name Testing						
35		8	43	B-10 (35-37.5)		SP	Brown coarse sand with gravel (medium dense, moist)	NS	<1	
		9	37	B-10 (37.5-39)		SP	Brown coarse sand (medium dense, wet)	NS	<1	
40		10	44	B-10 (40-41.5) CA			With trace clay and occasional gravel (medium dense, wet)	NS	<1	

**Log of Boring B-10 (continued)**



Project: Airport Kwik Stop  
 Project Location: Ione, Washington  
 Project Number: 0504-058-07

Start Drilled 9/14/2023	End 9/14/2023	Total Depth (ft) 41.5	Logged By Checked By LTO JDO	Driller Cascade Drilling	Drilling Method Hollow-stem Auger
Surface Elevation (ft) Vertical Datum	Undetermined		Hammer Data 140 (lbs) / 30 (in) Drop	Drilling Equipment SCME-55	
Easting (X) Northing (Y)	System Datum		Groundwater not measured at time of exploration		
Notes:					

Elevation (feet)	FIELD DATA					Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing					
0						SP				
		6	10		B-11 (2.5-4)		Dark brown fine sand with silt (very loose, moist)	NS	23	Petroleum odor
5		10	9		B-11 (5-6.5) CA			NS	3109	
		11	12		B-11 (7.5-9)	SP	Brown fine sand (loose, moist)	NS	85.9	
10		10	11		B-11 (10-11.5)		Becomes very loose to loose	NS	14.6	
		12	15		B-11 (12.5-14)		Becomes loose	NS	10.1	
15		14	19		B-11 (15-16.5)			NS	14.7	
		12	17		B-11 (17.5-19)			NS	26.4	
20		10	13		B-11 (20-21.5) CA			NS	36.7	Petroleum odor
		10	6		B-11 (22.5-24)		Becomes very loose	NS	32	
25		14	15		B-11 (25-26.5)		Becomes loose	NS	41.3	
		10	25		B-11 (27.5-29)	SP	Brown coarse sand with occasional gravel (loose, moist)	NS	78.2	
30		7	21		B-11 (30-31.5)			NS	15	
		5	27		B-11 (32.5-34) CA		Becomes medium dense	NS	596.3	Petroleum odor
35										

Note: See Figure A-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on . Vertical approximated based on .

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### Log of Boring B-11



Project: Airport Kwik Stop  
Project Location: Ione, Washington  
Project Number: 0504-058-07

Date: 10/17/23 Path: P:\0\_0504058\GINT\050405807.GPJ DBLlibrary\Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\GEB\_ENVIRONMENTAL\_STANDARD\_NO\_GW

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample Sample Name Testing						
35		8	16	B-11 (35-36.5)			Becomes loose	NS	218	
		11	35	B-11 (37.5-39)			Becomes medium dense, wet	NS	265	
40		10	18	B-11 (40-41.5) CA			Trace clay (loose, wet)	NS	28.2	

**Log of Boring B-11 (continued)**



Project: Airport Kwik Stop  
 Project Location: Ione, Washington  
 Project Number: 0504-058-07

Drilled	Start 9/14/2023	End 9/14/2023	Total Depth (ft)	41.5	Logged By Checked By	LTO JDO	Driller	Cascade Drilling	Drilling Method	Hollow-stem Auger	
Surface Elevation (ft) Vertical Datum			Undetermined		Hammer Data		140 (lbs) / 30 (in) Drop		Drilling Equipment		SCME-55
Easting (X) Northing (Y)			System Datum		Groundwater not measured at time of exploration						
Notes:											

Elevation (feet)	FIELD DATA					Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing						
0							SP				
4		4	12		B-12 (2.5-4)			Brown fine sand (loose, moist)	NS	<1	
5		10	13		B-12 (5.6.5) CA				NS	114	
6		6	16		B-12 (7.5-9)				NS	9.6	
10		8	20		B-12 (10-11.5)				NS	1.3	
14		14	18		B-12 (12.5-14)			Becomes medium dense	NS	3.1	
15		12	24		B-12 (15-16.5)			Becomes loose	NS	5.2	
17.5		13	30		B-12 (17.5-19) CA			Becomes medium dense	NS	10	
20		12	24		B-12 (20-21.5)			Becomes loose	NS	<1	
22.5		8	23		B-12 (22.5-24)				NS	6.2	
25		9	24		B-12 (25-26.5)				NS	1.5	
27.5		6	30		B-12 (27.5-29)		SP	Brown fine to coarse sand with occasional gravel (medium dense, moist)	NS	1.3	
30		10	31		B-12 (30-31.5)				NS	1.1	
32.5		11	26		B-12 (32.5-34)			With gravel, becomes loose to medium dense	NS	1.3	
35											

Note: See Figure A-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on . Vertical approximated based on .

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### Log of Boring B-12



Project: Airport Kwik Stop  
Project Location: Lone, Washington  
Project Number: 0504-058-07

Elevation (feet)	FIELD DATA					MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing				
35		12	30		B-12 (35-36.5)		NS	4.1	
		14	29		B-12 (37.5-39) CA		NS	1136	Petroleum odor
40		10	31		B-12 (40-41.5) CA	SP	NS	42	

**Log of Boring B-12 (continued)**



Project: Airport Kwik Stop  
 Project Location: Lone, Washington  
 Project Number: 0504-058-07

**APPENDIX B**  
**Chemical Analytical Laboratory Reports and Data  
Validation**



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**Project:** Lone Kwik Stop Site – Soil and Groundwater Cleanup  
November 2023 Groundwater Samples

**GEI File No:** 0504-058-07

**Date:** March 7, 2024

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This report documents the results of a United States Environmental Protection Agency (USEPA)-defined Stage 2A data validation (USEPA Document 540-R-08-005; USEPA, 2009) of analytical data from the analyses of groundwater samples collected as part of the November 2023 sampling event, and the associated laboratory and field quality control (QC) samples. The samples were obtained from the Airport Kwik Stop facility located in Lone, Washington.

## OBJECTIVE AND QUALITY CONTROL ELEMENTS

GeoEngineers, Inc. (GeoEngineers) completed the data validation consistent with the USEPA Contract Laboratory Program National Functional for Organic Superfund Methods Data Review (USEPA, 2020a) and Inorganic Superfund Methods Data Review (USEPA, 2020b) (National Functional Guidelines) to determine if the laboratory analytical results meet the project objectives and are usable for their intended purpose. Data usability was assessed by determining if:

- The samples were analyzed using well-defined and acceptable methods that provide reporting limits below applicable regulatory criteria;
- The precision and accuracy of the data are well-defined and sufficient to provide defensible data; and
- The quality assurance/quality control (QA/QC) procedures utilized by the laboratory meet acceptable industry practices and standards.

In accordance with the Quality Assurance Project Plan (QAPP), Appendix B of the Work Plan (GeoEngineers 2023), the data validation included review of the following QC elements:

- Data Package Completeness
- Chain-of-Custody Documentation
- Holding Times and Sample Preservation
- Surrogate Recoveries
- Method Blanks
- Matrix Spikes/Matrix Spike Duplicates
- Laboratory Control Samples/Laboratory Control Sample Duplicates
- Laboratory/Field Duplicates

## VALIDATED SAMPLE DELIVERY GROUPS

This data validation included review of the sample delivery group (SDG) listed below in Table 1.



**TABLE 1. SUMMARY OF VALIDATED SAMPLE DELIVERY GROUPS**

Laboratory SDG	Samples Validated
590-22374-1	MW-3: 113023, MW-8: 113023, DUP 1: 113023, MW-9: 113023, MW-10: 112923, MW-11: 112923, MW-15: 112923, MW-18: 112923

### CHEMICAL ANALYSIS PERFORMED

Eurofins Spokane, Environment Testing Northwest, LLC (Eurofins), located in Spokane, Washington, performed laboratory analyses on the samples using one or more of the following methods:

- Gasoline-Range Hydrocarbons (NWTPH-Gx) by Method NWTPH-Gx;
- Volatile Organic Compounds (VOCs) by Method EPA8260D;
- Total and Dissolved Metals by Method EPA6020B;
- Dissolved Gases by Method RSK-175;
- Anions by Method EPA300.0;
- Total and Bicarbonate Alkalinity by Method SM2320B;
- Total Dissolved Solids by Method SM2540C; and
- Total Organic Carbon by Method SM5310B

### DATA VALIDATION SUMMARY

The results for each of the QC elements are summarized below.

#### Data Package Completeness

Eurofins provided the required deliverables for the data validation according to the National Functional Guidelines. The laboratory followed adequate corrective action processes and the identified anomalies were discussed in the relevant laboratory case narrative.

#### Chain-of-Custody Documentation

Chain-of-custody (COC) forms were provided with the laboratory analytical reports. The COCs were accurate and complete when submitted to the laboratory.

#### Holding Times and Sample Preservation

The sample holding time is defined as the time that elapses between sample collection and sample analysis. Maximum holding time criteria exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentration present at the time of sample collection. Established holding times were met for each analysis. The sample cooler arrived at the laboratory within the appropriate temperatures of between two and six degrees Celsius.



### Surrogate Recoveries

A surrogate compound is a compound that is chemically similar to the organic analytes of interest, but unlikely to be found in an environmental sample. Surrogates are used for organic analyses and are added to the samples, standards, and blanks to serve as an accuracy and specificity check of each analysis. The surrogates are added to the samples at a known concentration and percent recoveries are calculated following analysis. The surrogate percent recoveries for field samples were within the laboratory control limits.

### Method Blanks

Method blanks are analyzed to ensure that laboratory procedures and reagents do not introduce measurable concentrations of the analytes of interest. A method blank was analyzed with each batch of samples, at a frequency of 1 per 20 samples. For each sample batch, method blanks for the applicable methods were analyzed at the required frequency. None of the analytes of interest were detected in the method blanks, with the following exceptions:

**SDG 590-22374-1:** (Alkalinity) There was a positive result for total and bicarbonate alkalinity in the method blank digested on 12/11/2023. The positive results for these target analytes were greater than 10X the concentration in the method blank in the associated field samples; therefore, no qualifications were required.

### Matrix Spikes/Matrix Spike Duplicates

Since the actual analyte concentration in an environmental sample is not known, the accuracy of a particular analysis is usually inferred by performing a matrix spike (MS) analysis on one sample from the associated batch, known as the parent sample. One aliquot of the sample is analyzed in the normal manner and then a second aliquot of the sample is spiked with a known amount of analyte concentration and analyzed. From these analyses, a percent recovery is calculated. Matrix spike duplicate (MSD) analyses are generally performed for organic analyses as a precision check and analyzed in the same sequence as a matrix spike. Using the result values from the MS and MSD, the relative percent difference (RPD) is calculated. The percent recovery control limits for MS and MSD analyses are specified in the laboratory documents, as are the RPD control limits for MS/MSD sample sets.

One MS/MSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the percent recovery and RPD values were within the proper control limits.

### Laboratory Control Samples/Laboratory Control Sample Duplicates

A laboratory control sample (LCS) is a blank sample that is spiked with a known amount of analyte and then analyzed. An LCS is similar to an MS, but without the possibility of matrix interference. Given that matrix interference is not an issue, the LCS/LCSD control limits for accuracy and precision are usually more rigorous than for MS/MSD analyses. Additionally, data qualification based on LCS/LCSD analyses would apply to all samples in the associated batch, instead of just the parent sample. The percent recovery control limits for LCS and LCSD analyses are specified in the laboratory documents, as are the RPD control limits for LCS/LCSD sample sets.

One LCS/LCSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for all analyses and the percent recovery and RPD values were within the proper control limits, with the following exception:

**SDG 590-22374-1:** (VOCs) The percent recovery for 2,2-Dichloropropane was greater than the control limits in the LCS extracted on 12/8/2023; however, the percent recovery for this target analyte was within the control limits in the corresponding LCSD. No action was required for this outlier.

### Laboratory Duplicates

Internal laboratory duplicate analyses are performed to monitor the precision of the analyses. Two separate aliquots of a sample are analyzed as distinct samples in the laboratory and the RPD between the two results is calculated. Duplicate analyses should be performed once per analytical batch. If one or more of the samples used has a concentration less than five times the reporting limit for that sample, the absolute difference is used instead of the RPD. The RPD control limits are specified in the laboratory documents. Laboratory duplicates were analyzed at the proper frequency and the specified acceptance criteria were met.

### Field Duplicates

In order to assess precision, field duplicate samples were collected and analyzed along with the reviewed sample batches. The duplicate samples were analyzed for the same parameters as the associated parent samples. Precision is determined by calculating the RPD between each pair of samples. If one or more of the sample analytes has a concentration less than five times the reporting limit for that sample, then the absolute difference is used instead of the RPD. The RPD control limit water samples is 35 percent.

**SDG 590-22374-1:** One field duplicate sample pair, MW-8: 113023 and DUP 1: 113023, was submitted with this SDG. The precision criteria for the target analytes were met for this sample pair, with the exception of 1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene, gasoline-range hydrocarbons, total iron, dissolved manganese, total manganese, nitrate, n-Propylbenzene, sulfate, tert-Butylbenzene, and total dissolved solids. The positive results for these target analytes were qualified as estimated (J) in this sample pair.

## OVERALL ASSESSMENT

As was determined by this data validation, the laboratory followed the specified analytical methods. Accuracy was acceptable, as demonstrated by the surrogate, LCS/LCSD, and MS/MSD percent recovery values, with the exception noted above. Precision was acceptable, as demonstrated by the LCS/LCSD, MS/MSD, and laboratory/field duplicate RPD values, with the exceptions noted above.

The data are acceptable for the intended use, with the following qualifications listed below in Table 2.



**TABLE 2. SUMMARY OF QUALIFIED SAMPLES**

Sample ID	Analyte	Qualifier	Reason
MW-8: 113023	1,2,4-Trimethylbenzene	J	Field Duplicate Precision
	1,3,5-Trimethylbenzene	J	Field Duplicate Precision
	Gasoline-range hydrocarbons	J	Field Duplicate Precision
	Total iron	J	Field Duplicate Precision
	Dissolved manganese	J	Field Duplicate Precision
	Total manganese	J	Field Duplicate Precision
	Nitrate	J	Field Duplicate Precision
	n-Propylbenzene	J	Field Duplicate Precision
	Sulfate	J	Field Duplicate Precision
	tert-Butylbenzene	J	Field Duplicate Precision
	Total dissolved solids	J	Field Duplicate Precision
DUP 1: 113023	1,2,4-Trimethylbenzene	J	Field Duplicate Precision
	1,3,5-Trimethylbenzene	J	Field Duplicate Precision
	Gasoline-range hydrocarbons	J	Field Duplicate Precision
	Total iron	J	Field Duplicate Precision
	Dissolved manganese	J	Field Duplicate Precision
	Total manganese	J	Field Duplicate Precision
	Nitrate	J	Field Duplicate Precision
	n-Propylbenzene	J	Field Duplicate Precision
	Sulfate	J	Field Duplicate Precision
	tert-Butylbenzene	J	Field Duplicate Precision
	Total dissolved solids	J	Field Duplicate Precision

**REFERENCES**

U.S. Environmental Protection Agency (USEPA). “Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use,” EPA-540-R-08-005. January 2009.

U.S. Environmental Protection Agency (USEPA) 2020a. Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review, EPA-540-R-20-005. November 2020.

U.S. Environmental Protection Agency (USEPA) 2020b. Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA-542-R-20-006. November 2020.

GeoEngineers, Inc. (GeoEngineers). “Work Plan, Airport Kwik Stop Soil and Groundwater Cleanup Data Gap Assessment,” prepared for Washington State Department of Ecology. September 8, 2023.



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**Project:** Lone Kwik Stop Site – Soil and Groundwater Cleanup  
September 2023 Soil and Groundwater Samples

**GEI File No:** 0504-058-07

**Date:** October 28, 2023

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This report documents the results of a United States Environmental Protection Agency (USEPA)-defined Stage 2A data validation (USEPA Document 540-R-08-005; USEPA, 2009) of analytical data from the analyses of soil and groundwater samples collected as part of the September 2023 sampling event, and the associated laboratory and field quality control (QC) samples. The samples were obtained from the Airport Kwik Stop facility located in Lone, Washington.

## OBJECTIVE AND QUALITY CONTROL ELEMENTS

GeoEngineers, Inc. (GeoEngineers) completed the data validation consistent with the USEPA Contract Laboratory Program National Functional for Organic Superfund Methods Data Review (USEPA, 2020a) and Inorganic Superfund Methods Data Review (USEPA, 2020b) (National Functional Guidelines) to determine if the laboratory analytical results meet the project objectives and are usable for their intended purpose. Data usability was assessed by determining if:

- The samples were analyzed using well-defined and acceptable methods that provide reporting limits below applicable regulatory criteria;
- The precision and accuracy of the data are well-defined and sufficient to provide defensible data; and
- The quality assurance/quality control (QA/QC) procedures utilized by the laboratory meet acceptable industry practices and standards.

In accordance with the Quality Assurance Project Plan (QAPP), Appendix B of the Work Plan (GeoEngineers 2023), the data validation included review of the following QC elements:

- Data Package Completeness
- Chain-of-Custody Documentation
- Holding Times and Sample Preservation
- Surrogate Recoveries
- Method Blanks
- Matrix Spikes/Matrix Spike Duplicates
- Laboratory Control Samples/Laboratory Control Sample Duplicates
- Laboratory/Field Duplicates

## VALIDATED SAMPLE DELIVERY GROUPS

This data validation included review of the sample delivery groups (SDGs) listed below in Table 1.



**TABLE 1. SUMMARY OF VALIDATED SAMPLE DELIVERY GROUPS**

Laboratory SDG	Samples Validated
590-21718-1	MW-8:091223, Dup:091223
590-21723-1	B-8 (12.5-14), B-8 (25-26.5), B-8 (37.5-39), B-8 (40-41.5), B-9 (12.5-14), B-9 (27.5-29), B-9 (37.5-39), B-9 (40-41.5), B-10 (10-11.5), B-10 (25-26.5), B-10 (32.5-34), B-10 (40-41.5), B-11 (5-6.5), B-11 (20-21.5), B-11 (32.5-34), B-11 (40-41.5), B-12 (5-6.5), B-12 (17.5-19), B-12 (37.5-39), B-12 (40-41.5), MW-3:091523, MW-9:091523, MW-10:091523, MW-11:091523, MW-15:091523, MW-18:091523

**CHEMICAL ANALYSIS PERFORMED**

Eurofins Spokane, Environment Testing Northwest, LLC (Eurofins), located in Spokane, Washington, performed laboratory analyses on the samples using one or more of the following methods:

- Gasoline-Range Hydrocarbons (NWTPH-Gx) by Method NWTPH-Gx;
- Volatile Organic Compounds (VOCs) by Method EPA8260D;
- Total Metals by Method EPA6010D;
- Total and Dissolved Metals by Method EPA200.8;
- Dissolved Gases by Method RSK-175;
- Anions by Method EPA300.0;
- Total Alkalinity by Method SM2320B;
- Total Organic Carbon (Water) by Method SM5310C; and
- Total Organic Carbon (Soil) by Method SW9060A.

**DATA VALIDATION SUMMARY**

The results for each of the QC elements are summarized below.

**Data Package Completeness**

Eurofins provided the required deliverables for the data validation according to the National Functional Guidelines. The laboratory followed adequate corrective action processes and the identified anomalies were discussed in the relevant laboratory case narrative.

**Chain-of-Custody Documentation**

Chain-of-custody (COC) forms were provided with the laboratory analytical reports. The COCs were accurate and complete when submitted to the laboratory.



### Holding Times and Sample Preservation

The sample holding time is defined as the time that elapses between sample collection and sample analysis. Maximum holding time criteria exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentration present at the time of sample collection. Established holding times were met for each analysis, with the exceptions noted below. The sample coolers arrived at the laboratory within the appropriate temperatures of between two and six degrees Celsius.

**SDG 590-21718-1:** (Anions) The 48-hour holding time for nitrate analysis was exceeded in Sample MW-8:091223. The positive result for nitrate was qualified as estimated (J) in this sample.

**SDG 590-21723-1:** (NWTPH-Gx) The 14-day holding time for gasoline-range hydrocarbons analysis was exceeded in Samples B-9 (37.5-39) and B-9 (40-41.5). The positive results for gasoline-range hydrocarbons were qualified as estimated (J) in these samples.

(VOCs) The 14-day holding time for VOCs analysis was exceeded in Samples B-9 (37.5-39) and B-9 (40-41.5). The positive result and reporting limits for the VOC target analytes were qualified as estimated (J and UJ, accordingly) in these samples.

(Anions) The 48-hour holding time for nitrate analysis was exceeded in Samples MW-3:091523, MW-9:091523, and MW-18:091523. The positive results and reporting limit for nitrate were qualified as estimated (J and UJ, accordingly) in these samples.

### Surrogate Recoveries

A surrogate compound is a compound that is chemically similar to the organic analytes of interest, but unlikely to be found in an environmental sample. Surrogates are used for organic analyses and are added to the samples, standards, and blanks to serve as an accuracy and specificity check of each analysis. The surrogates are added to the samples at a known concentration and percent recoveries are calculated following analysis. The surrogate percent recoveries for field samples were within the laboratory control limits, with the following exception:

**SDG 590-21723-1:** (VOCs) The percent recovery for surrogate toluene-d8 was greater than the control limits in Sample B-11 (5-6.5); however, the sample was spiked with three additional surrogates and in each case the percent recovery values were within their respective control limits. No action was required for this outlier.

### Method Blanks

Method blanks are analyzed to ensure that laboratory procedures and reagents do not introduce measurable concentrations of the analytes of interest. A method blank was analyzed with each batch of samples, at a frequency of 1 per 20 samples. For each sample batch, method blanks for the applicable methods were analyzed at the required frequency. None of the analytes of interest were detected in the method blanks, with the following exceptions:

**SDG 590-21718-1:** (NWTPH-Gx) There was a positive result for gasoline-range hydrocarbons in the method blank extracted on 9/18/2023. The positive results for this target analyte were greater than 2X





the concentration in the method blank in the associated field samples; therefore, no qualifications were required.

(VOCs) There was a positive result for naphthalene in the method blank extracted on 9/18/2023. The positive results for this target analyte were qualified as non-detected (U) in Samples MW-8:091223 and Dup:091223.

(Alkalinity) There was a positive result for alkalinity in the method blank digested on 9/22/2023. The positive result for this target analyte was greater than 10X the concentration in the method blank in the associated field sample; therefore, no qualification was required.

**SDG 590-21723-1:** (NWTPH-Gx) There was a positive result for gasoline-range hydrocarbons in the method blank extracted on 9/19/2023. The positive results for this target analyte were qualified as non-detected (U) in Samples MW-9:091523, MW-10:091523, and MW-11:091523.

(VOCs) There was a positive result for naphthalene in the method blank extracted on 9/19/2023. The positive result for this target analyte was greater than 2X the concentration in the method blank in the associated field sample; therefore, no qualification was required.

(Alkalinity) There was a positive result for alkalinity in the method blank digested on 9/28/2023. The positive results for this target analyte were greater than 10X the concentration in the method blank in the associated field samples; therefore, no qualifications were required.

#### **Matrix Spikes/Matrix Spike Duplicates**

Since the actual analyte concentration in an environmental sample is not known, the accuracy of a particular analysis is usually inferred by performing a matrix spike (MS) analysis on one sample from the associated batch, known as the parent sample. One aliquot of the sample is analyzed in the normal manner and then a second aliquot of the sample is spiked with a known amount of analyte concentration and analyzed. From these analyses, a percent recovery is calculated. Matrix spike duplicate (MSD) analyses are generally performed for organic analyses as a precision check and analyzed in the same sequence as a matrix spike. Using the result values from the MS and MSD, the relative percent difference (RPD) is calculated. The percent recovery control limits for MS and MSD analyses are specified in the laboratory documents, as are the RPD control limits for MS/MSD sample sets.

One MS/MSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the percent recovery and RPD values were within the proper control limits.

#### **Laboratory Control Samples/Laboratory Control Sample Duplicates**

A laboratory control sample (LCS) is a blank sample that is spiked with a known amount of analyte and then analyzed. An LCS is similar to an MS, but without the possibility of matrix interference. Given that matrix interference is not an issue, the LCS/LCSD control limits for accuracy and precision are usually more rigorous than for MS/MSD analyses. Additionally, data qualification based on LCS/LCSD analyses would apply to all samples in the associated batch, instead of just the parent sample. The percent



recovery control limits for LCS and LCSD analyses are specified in the laboratory documents, as are the RPD control limits for LCS/LCSD sample sets.

One LCS/LCSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for all analyses and the percent recovery and RPD values were within the proper control limits.

### Laboratory Duplicates

Internal laboratory duplicate analyses are performed to monitor the precision of the analyses. Two separate aliquots of a sample are analyzed as distinct samples in the laboratory and the RPD between the two results is calculated. Duplicate analyses should be performed once per analytical batch. If one or more of the samples used has a concentration less than five times the reporting limit for that sample, the absolute difference is used instead of the RPD. The RPD control limits are specified in the laboratory documents. Laboratory duplicates were analyzed at the proper frequency and the specified acceptance criteria were met, with the following exception:

**SDG 590-21723-1:** (VOCs) The laboratory performed a laboratory duplicate sample set on Sample B-12 (5-6.5). The RPD for naphthalene was greater than the control limits in the laboratory duplicate extracted on 9/27/2023. The positive result for this target analyte was qualified as estimated (J) in this sample.

### Field Duplicates

In order to assess precision, field duplicate samples were collected and analyzed along with the reviewed sample batches. The duplicate samples were analyzed for the same parameters as the associated parent samples. Precision is determined by calculating the RPD between each pair of samples. If one or more of the sample analytes has a concentration less than five times the reporting limit for that sample, then the absolute difference is used instead of the RPD. The RPD control limit for soil and water samples is 35 percent.

**SDG 590-21718-1:** One field duplicate sample pair, MW-8:091223 and Dup:091223, was submitted with this SDG. The precision criteria for all target analytes were met for this sample pair.

## OVERALL ASSESSMENT

As was determined by this data validation, the laboratory followed the specified analytical methods. Accuracy was acceptable, as demonstrated by the surrogate, LCS/LCSD, and MS/MSD percent recovery values, with the exceptions noted above. Precision was acceptable, as demonstrated by the LCS/LCSD, MS/MSD, and laboratory/field duplicate RPD values, with the exceptions noted above.

The data are acceptable for the intended use, with the following qualifications listed below in Table 2.



**TABLE 2: SUMMARY OF QUALIFIED SAMPLES**

Sample ID	Analyte	Qualifier	Reason
B-9 (37.5-39)	Gasoline-range hydrocarbons	J	Holding Time
	All VOC target analytes	UJ	Holding Time
B-9 (40-41.5)	Gasoline-range hydrocarbons	J	Holding Time
	Toluene	J	Holding Time
	All other VOC target analytes	UJ	Holding Time
B-12 (5-6.5)	Naphthalene	J	Laboratory Duplicate Precision
MW-3:091523	Nitrate	UJ	Holding Time
MW-8:091223	Naphthalene	U	Method Blank Contamination
	Nitrate	J	Holding Time
Dup:091223	Naphthalene	U	Method Blank Contamination
MW-9:091523	Gasoline-range hydrocarbons	U	Method Blank Contamination
	Nitrate	J	Holding Time
MW-10:091523	Gasoline-range hydrocarbons	U	Method Blank Contamination
MW-11:091523	Gasoline-range hydrocarbons	U	Method Blank Contamination
MW-18:091523	Nitrate	J	Holding Time

**REFERENCES**

U.S. Environmental Protection Agency (USEPA). “Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use,” EPA-540-R-08-005. January 2009.

U.S. Environmental Protection Agency (USEPA) 2020a. Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review, EPA-540-R-20-005. November 2020.

U.S. Environmental Protection Agency (USEPA) 2020b. Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA-542-R-20-006. November 2020.

GeoEngineers, Inc. (GeoEngineers). “Work Plan, Airport Kwik Stop Soil and Groundwater Cleanup Data Gap Assessment,” prepared for Washington State Department of Ecology. September 8, 2023.



 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Justin Orr  
GeoEngineers Inc  
523 East Second Ave  
Spokane, Washington 99202

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**JOB DESCRIPTION**

Ione Airport Kwik Stop/0504-05-08

**JOB NUMBER**

590-21718-1

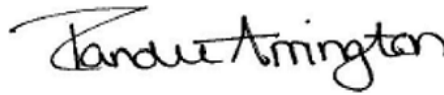
# Eurofins Spokane

## Job Notes

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## Authorization



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# Case Narrative

Client: GeoEngineers Inc  
Project/Site: Lone Airport Kwik Stop/0504-05-08

Job ID: 590-21718-1

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**Job ID: 590-21718-1**

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**Laboratory: Eurofins Spokane**

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## Narrative

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### Receipt

The samples were received on 9/15/2023 11:37 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.5° C.

### GC/MS VOA

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

### GC VOA

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

### GC Semi VOA

Method 300.0: The following sample was received outside of holding time: MW-8:091223 (590-21718-1).

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

### Metals

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

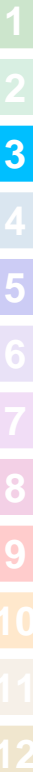
### General Chemistry

Method SM 2320B: The method blank for analytical batch 590-43632 contained Alkalinity above the method detection limit (MDL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

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.



# Sample Summary

Client: GeoEngineers Inc  
Project/Site: Lone Airport Kwik Stop/0504-05-08

Job ID: 590-21718-1

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<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Received</u>
590-21718-1	MW-8:091223	Water	09/12/23 15:30	09/15/23 11:37
590-21718-2	Dup:091223	Water	09/12/23 23:00	09/15/23 11:37

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# Definitions/Glossary

Client: GeoEngineers Inc  
Project/Site: Ione Airport Kwik Stop/0504-05-08

Job ID: 590-21718-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### HPLC/IC

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
H3	Sample was received and analyzed past holding time. This does not meet regulatory requirements.

### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## 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
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

# Client Sample Results

Client: GeoEngineers Inc  
 Project/Site: Lone Airport Kwik Stop/0504-05-08

Job ID: 590-21718-1

**Client Sample ID: MW-8:091223**

**Lab Sample ID: 590-21718-1**

Date Collected: 09/12/23 15:30

Matrix: Water

Date Received: 09/15/23 11:37

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.40	0.093	ug/L			09/18/23 22:44	1
Ethylbenzene	ND		1.0	0.20	ug/L			09/18/23 22:44	1
m,p-Xylene	ND		2.0	0.28	ug/L			09/18/23 22:44	1
<b>Naphthalene</b>	<b>0.94</b>	<b>J B</b>	2.0	0.63	ug/L			09/18/23 22:44	1
o-Xylene	ND		1.0	0.16	ug/L			09/18/23 22:44	1
<b>Toluene</b>	<b>0.32</b>	<b>J</b>	1.0	0.31	ug/L			09/18/23 22:44	1
Xylenes, Total	ND		3.0	0.44	ug/L			09/18/23 22:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		80 - 120		09/18/23 22:44	1
4-Bromofluorobenzene (Surr)	98		76 - 120		09/18/23 22:44	1
Dibromofluoromethane (Surr)	91		80 - 123		09/18/23 22:44	1
Toluene-d8 (Surr)	106		80 - 120		09/18/23 22:44	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Gasoline</b>	<b>1700</b>	<b>B</b>	150	31	ug/L			09/18/23 22:44	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>			
4-Bromofluorobenzene (Surr)	98		68.7 - 141		09/18/23 22:44	1			

**Method: RSK-175 - Dissolved Gases (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		5.0	0.63	ug/L			09/19/23 19:55	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Nitrate as N</b>	<b>2.3</b>	<b>H H3</b>	0.20	0.057	mg/L			09/15/23 17:49	1
<b>Sulfate</b>	<b>150</b>		5.0	1.3	mg/L			09/18/23 16:21	10

**Method: EPA 200.8 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Iron</b>	<b>0.88</b>		0.10	0.013	mg/L		09/19/23 16:02	09/20/23 13:42	1
<b>Manganese</b>	<b>0.62</b>		0.0020	0.00046	mg/L		09/19/23 16:02	09/20/23 13:42	1

**Method: EPA 200.8 - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Iron</b>	<b>0.077</b>	<b>J</b>	0.10	0.013	mg/L		09/21/23 17:58	09/22/23 14:07	1
<b>Manganese</b>	<b>0.46</b>		0.0020	0.00046	mg/L		09/21/23 17:58	09/22/23 14:07	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Alkalinity (SM 2320B)</b>	<b>340</b>	<b>B</b>	20	5.0	mg/L			09/22/23 13:00	1
<b>Total Organic Carbon (SM 5310C)</b>	<b>4.5</b>		1.5	0.38	mg/L			09/21/23 21:29	1

**Client Sample ID: Dup:091223**

**Lab Sample ID: 590-21718-2**

Date Collected: 09/12/23 23:00

Matrix: Water

Date Received: 09/15/23 11:37

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.40	0.093	ug/L			09/18/23 23:06	1

Eurofins Spokane

# Client Sample Results

Client: GeoEngineers Inc  
 Project/Site: Lone Airport Kwik Stop/0504-05-08

Job ID: 590-21718-1

**Client Sample ID: Dup:091223**

**Lab Sample ID: 590-21718-2**

**Date Collected: 09/12/23 23:00**

**Matrix: Water**

**Date Received: 09/15/23 11:37**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		1.0	0.20	ug/L			09/18/23 23:06	1
m,p-Xylene	ND		2.0	0.28	ug/L			09/18/23 23:06	1
<b>Naphthalene</b>	<b>0.84</b>	<b>J B</b>	2.0	0.63	ug/L			09/18/23 23:06	1
o-Xylene	ND		1.0	0.16	ug/L			09/18/23 23:06	1
Toluene	ND		1.0	0.31	ug/L			09/18/23 23:06	1
Xylenes, Total	ND		3.0	0.44	ug/L			09/18/23 23:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		80 - 120		09/18/23 23:06	1
4-Bromofluorobenzene (Surr)	97		76 - 120		09/18/23 23:06	1
Dibromofluoromethane (Surr)	93		80 - 123		09/18/23 23:06	1
Toluene-d8 (Surr)	107		80 - 120		09/18/23 23:06	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Gasoline</b>	<b>1800</b>	<b>B</b>	150	31	ug/L			09/18/23 23:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		68.7 - 141		09/18/23 23:06	1

# QC Sample Results

Client: GeoEngineers Inc  
 Project/Site: Ione Airport Kwik Stop/0504-05-08

Job ID: 590-21718-1

## Method: 8260D - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 590-43533/12**  
**Matrix: Water**  
**Analysis Batch: 43533**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		0.40	0.093	ug/L			09/18/23 14:29	1
Ethylbenzene	ND		1.0	0.20	ug/L			09/18/23 14:29	1
m,p-Xylene	ND		2.0	0.28	ug/L			09/18/23 14:29	1
Naphthalene	0.673	J	2.0	0.63	ug/L			09/18/23 14:29	1
o-Xylene	ND		1.0	0.16	ug/L			09/18/23 14:29	1
Toluene	ND		1.0	0.31	ug/L			09/18/23 14:29	1
Xylenes, Total	ND		3.0	0.44	ug/L			09/18/23 14:29	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	101		80 - 120		09/18/23 14:29	1
4-Bromofluorobenzene (Surr)	108		76 - 120		09/18/23 14:29	1
Dibromofluoromethane (Surr)	101		80 - 123		09/18/23 14:29	1
Toluene-d8 (Surr)	103		80 - 120		09/18/23 14:29	1

**Lab Sample ID: LCS 590-43533/1009**  
**Matrix: Water**  
**Analysis Batch: 43533**

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Benzene	10.0	10.4		ug/L		104	80 - 120
Ethylbenzene	10.0	10.1		ug/L		101	80 - 122
m,p-Xylene	10.0	9.78		ug/L		98	80 - 125
Naphthalene	10.0	9.33		ug/L		93	61 - 140
o-Xylene	10.0	9.31		ug/L		93	80 - 130
Toluene	10.0	10.0		ug/L		100	80 - 129

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	99		80 - 120
4-Bromofluorobenzene (Surr)	97		76 - 120
Dibromofluoromethane (Surr)	98		80 - 123
Toluene-d8 (Surr)	96		80 - 120

**Lab Sample ID: LCSD 590-43533/10**  
**Matrix: Water**  
**Analysis Batch: 43533**

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

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
		Result	Qualifier						
Benzene	10.0	9.99		ug/L		100	80 - 120	4	15
Ethylbenzene	10.0	9.70		ug/L		97	80 - 122	4	35
m,p-Xylene	10.0	9.43		ug/L		94	80 - 125	4	35
Naphthalene	10.0	9.32		ug/L		93	61 - 140	0	25
o-Xylene	10.0	9.24		ug/L		92	80 - 130	1	35
Toluene	10.0	9.89		ug/L		99	80 - 129	2	35

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	97		80 - 120
4-Bromofluorobenzene (Surr)	97		76 - 120

Eurofins Spokane

# QC Sample Results

Client: GeoEngineers Inc  
 Project/Site: Lone Airport Kwik Stop/0504-05-08

Job ID: 590-21718-1

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

Lab Sample ID: LCSD 590-43533/10  
 Matrix: Water  
 Analysis Batch: 43533

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

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	97		80 - 123
Toluene-d8 (Surr)	100		80 - 120

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Lab Sample ID: MB 590-43532/12  
 Matrix: Water  
 Analysis Batch: 43532

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline	44.7	J	150	31	ug/L			09/18/23 14:29	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	108		68.7 - 141		09/18/23 14:29	1

Lab Sample ID: LCS 590-43532/1011  
 Matrix: Water  
 Analysis Batch: 43532

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

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Gasoline	1000	1040		ug/L		104	80 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	103		68.7 - 141

## Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 280-626748/5  
 Matrix: Water  
 Analysis Batch: 626748

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Methane	ND		5.0	0.63	ug/L			09/19/23 19:42	1

Lab Sample ID: LCS 280-626748/3  
 Matrix: Water  
 Analysis Batch: 626748

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

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Methane	65.7	72.1		ug/L		110	75 - 125

Lab Sample ID: LCSD 280-626748/4  
 Matrix: Water  
 Analysis Batch: 626748

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

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
		Result	Qualifier						
Methane	65.7	72.0		ug/L		110	75 - 125	0	20

Eurofins Spokane

# QC Sample Results

Client: GeoEngineers Inc  
 Project/Site: Lone Airport Kwik Stop/0504-05-08

Job ID: 590-21718-1

## Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: 590-21718-1 DU  
 Matrix: Water  
 Analysis Batch: 626748

Client Sample ID: MW-8:091223  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Methane	ND		ND		ug/L		NC	20

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 590-43516/1003  
 Matrix: Water  
 Analysis Batch: 43516

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.20	0.057	mg/L			09/15/23 14:55	1

Lab Sample ID: LCS 590-43516/1004  
 Matrix: Water  
 Analysis Batch: 43516

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	5.00	5.06		mg/L		101	90 - 110

Lab Sample ID: MB 590-43518/1003  
 Matrix: Water  
 Analysis Batch: 43518

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		0.50	0.13	mg/L			09/18/23 15:21	1

Lab Sample ID: LCS 590-43518/1004  
 Matrix: Water  
 Analysis Batch: 43518

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	12.5	12.6		mg/L		101	90 - 110

## Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 580-437983/26-A  
 Matrix: Water  
 Analysis Batch: 438195

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 437983

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.10	0.013	mg/L		09/19/23 16:02	09/20/23 12:48	1
Manganese	ND		0.0020	0.00046	mg/L		09/19/23 16:02	09/20/23 12:48	1

Lab Sample ID: LCS 580-437983/27-A  
 Matrix: Water  
 Analysis Batch: 438195

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 437983

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	20.0	20.6		mg/L		103	85 - 115
Manganese	1.00	1.03		mg/L		103	85 - 115

Eurofins Spokane

# QC Sample Results

Client: GeoEngineers Inc  
 Project/Site: Lone Airport Kwik Stop/0504-05-08

Job ID: 590-21718-1

## Method: 200.8 - Metals (ICP/MS) (Continued)

**Lab Sample ID: LCSD 580-437983/28-A**  
**Matrix: Water**  
**Analysis Batch: 438195**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 437983**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Iron	20.0	21.5		mg/L		108	85 - 115	4		20
Manganese	1.00	1.07		mg/L		107	85 - 115	4		20

**Lab Sample ID: MB 580-438128/1-B**  
**Matrix: Water**  
**Analysis Batch: 438541**

**Client Sample ID: Method Blank**  
**Prep Type: Dissolved**  
**Prep Batch: 438340**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	ND		0.0020	0.00046	mg/L		09/21/23 17:58	09/22/23 14:37	1

**Lab Sample ID: LCS 580-438128/2-B**  
**Matrix: Water**  
**Analysis Batch: 438541**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Dissolved**  
**Prep Batch: 438340**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Iron	20.0	21.3		mg/L		107	85 - 115			
Manganese	1.00	1.04		mg/L		104	85 - 115			

**Lab Sample ID: LCSD 580-438128/3-B**  
**Matrix: Water**  
**Analysis Batch: 438541**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Dissolved**  
**Prep Batch: 438340**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Iron	20.0	21.5		mg/L		107	85 - 115	1		20
Manganese	1.00	1.04		mg/L		104	85 - 115	0		20

## Method: SM 2320B - Alkalinity

**Lab Sample ID: MB 590-43632/1**  
**Matrix: Water**  
**Analysis Batch: 43632**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

**Lab Sample ID: LCS 590-43632/2**  
**Matrix: Water**  
**Analysis Batch: 43632**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Alkalinity	501	505		mg/L		101	90 - 110			

# QC Sample Results

Client: GeoEngineers Inc  
 Project/Site: Lone Airport Kwik Stop/0504-05-08

Job ID: 590-21718-1

## Method: SM 5310C - TOC

**Lab Sample ID: MB 580-438354/3**  
**Matrix: Water**  
**Analysis Batch: 438354**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.5	0.38	mg/L			09/21/23 13:46	1

**Lab Sample ID: LCS 580-438354/4**  
**Matrix: Water**  
**Analysis Batch: 438354**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	10.0	9.77		mg/L		98	85 - 115

**Lab Sample ID: LCSD 580-438354/5**  
**Matrix: Water**  
**Analysis Batch: 438354**

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon	10.0	9.38		mg/L		94	85 - 115	4	20



# Lab Chronicle

Client: GeoEngineers Inc  
 Project/Site: Lone Airport Kwik Stop/0504-05-08

Job ID: 590-21718-1

**Client Sample ID: MW-8:091223**

**Lab Sample ID: 590-21718-1**

**Date Collected: 09/12/23 15:30**

**Matrix: Water**

**Date Received: 09/15/23 11:37**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	43533	09/18/23 22:44	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	43532	09/18/23 22:44	JSP	EET SPK
Total/NA	Analysis	RSK-175		1	20 mL	20 mL	626748	09/19/23 19:55	SJD	EET DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	43516	09/15/23 17:49	NMI	EET SPK
Total/NA	Analysis	300.0		10	5 mL	5 mL	43518	09/18/23 16:21	NMI	EET SPK
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	438128	09/20/23 15:59	AUA	EET SEA
Dissolved	Prep	200.8			50 mL	50 mL	438340	09/21/23 17:58	JLS	EET SEA
Dissolved	Analysis	200.8		1	50 mL	50 mL	438541	09/22/23 14:07	FCW	EET SEA
Total/NA	Prep	200.8			50 mL	50 mL	437983	09/19/23 16:02	JLS	EET SEA
Total/NA	Analysis	200.8		1	50 mL	50 mL	438195	09/20/23 13:42	FCW	EET SEA
Total/NA	Analysis	SM 2320B		1	100 mL	100 mL	43632	09/22/23 13:00	AMB	EET SPK
Total/NA	Analysis	SM 5310C		1	40 mL	40 mL	438354	09/21/23 21:29	AUA	EET SEA

**Client Sample ID: Dup:091223**

**Lab Sample ID: 590-21718-2**

**Date Collected: 09/12/23 23:00**

**Matrix: Water**

**Date Received: 09/15/23 11:37**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	43533	09/18/23 23:06	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	43532	09/18/23 23:06	JSP	EET SPK

**Laboratory References:**

- EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100
- EET SEA = Eurofins Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310
- EET SPK = Eurofins Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

# Accreditation/Certification Summary

Client: GeoEngineers Inc  
 Project/Site: Lone Airport Kwik Stop/0504-05-08

Job ID: 590-21718-1

## Laboratory: Eurofins Spokane

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C569	01-07-24

## Laboratory: Eurofins Denver

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-23
A2LA	ISO/IEC 17025	2907.01	10-31-23
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-10-24
Arizona	State	AZ0713	12-20-23
Arkansas DEQ	State	19-047-0	05-31-23 *
California	State	2513	01-09-24
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-24
Georgia	State	4025-011	01-08-24
Illinois	NELAP	2000172019-1	04-30-24
Iowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-24
Kentucky (WW)	State	KY98047	12-31-23
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-23 *
Louisiana (All)	NELAP	30785	06-30-24
Minnesota	NELAP	1788752	12-31-23
Nevada	State	CO000262020-1	07-31-24
New Hampshire	NELAP	2053	04-28-24
New Jersey	NELAP	230001	06-30-24
New York	NELAP	59923	03-31-24
North Carolina (WW/SW)	State	358	12-31-23
North Dakota	State	R-034	01-08-24
Oregon	NELAP	4025-019	01-08-24
Pennsylvania	NELAP	013	07-31-24
South Carolina	State	72002001	01-08-24
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	09-30-23
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-23 *
Virginia	NELAP	12037	06-14-23 *
Washington	State	C583-19	08-03-23 *
West Virginia DEP	State	354	11-30-23
Wisconsin	State	999615430	08-31-24
Wyoming (UST)	A2LA	2907.01	10-31-22 *

## Laboratory: Eurofins Seattle

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

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-004	02-19-25
ANAB	Dept. of Defense ELAP	L2236	01-19-25
ANAB	Dept. of Energy	L2236	01-19-25

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# Accreditation/Certification Summary

Client: GeoEngineers Inc  
Project/Site: Lone Airport Kwik Stop/0504-05-08

Job ID: 590-21718-1

## Laboratory: Eurofins Seattle (Continued)

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

Authority	Program	Identification Number	Expiration Date
ANAB	ISO/IEC 17025	L2236	01-19-25
California	State	2954	07-07-23 *
Florida	NELAP	E87575	06-30-23 *
Louisiana (All)	NELAP	03073	07-01-24
Maine	State	WA01273	05-02-24
Montana (UST)	State	NA	04-14-27
New Jersey	NELAP	WA014	06-30-24
New York	NELAP	11662	03-31-24
Oregon	NELAP	4167	07-07-24
US Fish & Wildlife	US Federal Programs	A20571	06-30-23 *
USDA	US Federal Programs	525-23-4-22573	01-04-26
Washington	State	C788	07-13-24
Wisconsin	State	399133460	08-31-24

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# Method Summary

Client: GeoEngineers Inc  
Project/Site: Lone Airport Kwik Stop/0504-05-08

Job ID: 590-21718-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SPK
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC/MS)	NWTPH	EET SPK
RSK-175	Dissolved Gases (GC)	RSK	EET DEN
300.0	Anions, Ion Chromatography	EPA	EET SPK
200.8	Metals (ICP/MS)	EPA	EET SEA
SM 2320B	Alkalinity	SM	EET SPK
SM 5310C	TOC	SM	EET SEA
200.8	Preparation, Total Metals	EPA	EET SEA
5030C	Purge and Trap	SW846	EET SPK
FILTRATION	Sample Filtration	None	EET SEA

#### Protocol References:

EPA = US Environmental Protection Agency

None = None

NWTPH = Northwest Total Petroleum Hydrocarbon

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

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

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

#### Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

EET SEA = Eurofins Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

EET SPK = Eurofins Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

**Eurofins Spokane**  
11922 E 1st Avenue

# Chain of Custody Record

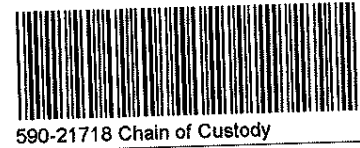
**eurofins** | Environment Testing America

Spokane, WA 99206-5302  
phone 509.924.9200 fax 509.924.9290

Regulatory Program  DW  NPDES  RCRA  Other

Eurofins Environment Testing America

<b>Client Contact</b> Your Company Name here: <u>GeoEngineers</u> Address: <u>573 E Zulaika</u> City/State/Zip: <u>Spokane WA</u> (xxx) xxx-xxxx Phone: <u>509.363.3123</u> (xxx) xxx-xxxx FAX: Project Name: <u>Pone</u> Site: <u>Airport Kwik stop</u> P O #: <u>0504-058-07</u>		<b>Project Manager:</b> <u>Justin Ovi</u> Email: <u>javro@geoengineers.com</u> Tel/Fax:		<b>Site Contact:</b> Date:		<b>COC No.:</b> _____ of _____ COCs									
<b>Analysis Turnaround Time</b> <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT, if different from Below _____ <input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		<b>Lab Contact:</b> Carrier:		<b>TALS Project #:</b> Sampler: For Lab Use Only: Walk-in Client: <input type="checkbox"/> Lab Sampling: <input type="checkbox"/> Job / SDG No.:		<b>Sample Specific Notes:</b>									
<b>Sample Identification</b>		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N) Perform MS/MSD (Y/N)	GPH/BTEX N Tot. Diss. Iron + Manganese Nitrate + Sulfate TOC SM 5310 B Methane Alkalinity							
<u>NW-8: 091223</u>		<u>9/12/23</u>	<u>1530</u>	<u>G</u>	<u>W</u>	<u>1</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		
<u>Dup: 091223</u>		<u>9/12/23</u>	<u>2300</u>	<u>G</u>	<u>W</u>	<u>2</u>	<u>X</u>								
<b>Preservation Used:</b> 1=Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other															
<b>Possible Hazard Identification</b> 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. <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown						<b>Sample Disposal</b> ( A fee may be assessed if samples are retained longer than 1 month ) <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months									
<b>Special Instructions/QC Requirements &amp; Comments</b>															
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.		Cooler Temp. (°C): Obs'd: <u>2.2</u> Corr'd: <u>2.5</u>		Therm ID No.: <u>11870</u>									
Relinquished by: <u>S. Lathan</u>		Company: <u>GE</u>		Date/Time: <u>1137</u> <u>9/15/23</u>		Received by: <u>Andreas</u>		Company: <u>ESTAW</u>		Date/Time: <u>9/15/23</u> <u>1137</u>					
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:					
Relinquished by:		Company:		Date/Time:		Received in Laboratory by:		Company:		Date/Time:		<u>9/25/2023</u>			



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Eurofins Spokane

11922 East 1st Ave
Spokane, WA 99206
Phone: 509-924-9200 Fax: 509-924-9290

Chain of Custody Record



Form with sections: Client Information (Sub Contract Lab), Analysis Requested, Preservation Codes, Sample Identification - Client ID (Lab ID), Possible Hazard Identification, Sample Disposal, Relinquished by, and Cooler Temperature/Remarks.



**Eurofins Spokane**

11922 East 1st Ave  
 Spokane, WA 99206  
 Phone: 509-924-9200 Fax: 509-924-9290

**Chain of Custody Record**



**eurofins** | Environment Testing

<b>Client Information (Sub Contract Lab)</b>		Sampler:		Lab PM:		Carrier Tracking No(s):		COC No:			
Client Contact: Shipping/Receiving		Phone:		Arrington, Randee E		E-Mail: Randee.Arrington@et.eurofinsus.com		State of Origin: Washington			
Company: Eurofins Environment Testing Northwest		Due Date Requested: 9/28/2023		Accreditations Required (See note): State Program - Washington		Job #: 590-21718-1		Page: Page 1 of 1			
Address: 5755 8th Street East		TAT Requested (days):		<b>Analysis Requested</b>						<b>Preservation Codes:</b> A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Y - Trizma Z - other (specify)	
City: Tacoma		PO #:									
State, Zip: WA, 98424		WO #:									
Phone: 253-922-2310(Tel)		Project #: 59002658									
Email:		SSOW#:									
Project Name: Kwik Stop/0504-05-07		Site:		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of Containers			
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)		Special Instructions/Note:	
MW-8:091223 (590-21718-1)		9/12/23		15:30 Pacific		Water		X X X		3	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northwest, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northwest, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northwest, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northwest, LLC.

<b>Possible Hazard Identification</b>		<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>	
Unconfirmed		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Deliverable Requested: I, II, III, IV, Other (specify)		Primary Deliverable Rank: 2	
Special Instructions/QC Requirements:			

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: <i>[Signature]</i>	Date/Time: 9/15/23 15:00	Company: BETS	Received by: <i>[Signature]</i>
Relinquished by:	Date/Time:	Company:	Received by:
Relinquished by:	Date/Time:	Company:	Received by:

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1311 32/3.4
-------------------------------------	-------------------	---

# Login Sample Receipt Checklist

Client: GeoEngineers Inc

Job Number: 590-21718-1

**Login Number: 21718**

**List Source: Eurofins Spokane**

**List Number: 1**

**Creator: Morris, Mackenzie 1**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





# Login Sample Receipt Checklist

Client: GeoEngineers Inc

Job Number: 590-21718-1

**Login Number: 21718**  
**List Number: 2**  
**Creator: Martinez, Anthony**

**List Source: Eurofins Denver**  
**List Creation: 09/16/23 01:20 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## Login Sample Receipt Checklist

Client: GeoEngineers Inc

Job Number: 590-21718-1

**Login Number: 21718**  
**List Number: 3**  
**Creator: Prigge, Madison**

**List Source: Eurofins Seattle**  
**List Creation: 09/16/23 02:28 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	IR11 3.2/3.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Justin Orr  
GeoEngineers Inc  
523 East Second Ave  
Spokane, Washington 99202

Generated 10/6/2023 8:32:36 AM

**JOB DESCRIPTION**

Kwik Stop/0504-05-07

**JOB NUMBER**

590-21723-1

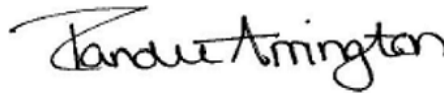
# Eurofins Spokane

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northwest, LLC Project Manager.

## Authorization



Generated  
10/6/2023 8:32:36 AM

Authorized for release by  
Randee Arrington, Business Unit Manager  
[Randee.Arrington@et.eurofinsus.com](mailto:Randee.Arrington@et.eurofinsus.com)  
(509)924-9200



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# Case Narrative

Client: GeoEngineers Inc  
Project/Site: Kwik Stop/0504-05-07

Job ID: 590-21723-1

## Job ID: 590-21723-1

### Laboratory: Eurofins Spokane

#### Narrative

#### Job Narrative 590-21723-1

#### Receipt

The samples were received on 9/18/2023 9:23 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.4° C and 6.0° C.

#### Receipt Exceptions

Method 300.0: The following samples were received outside of holding time: MW-3:091523 (590-21723-24), MW-9:091523 (590-21723-25) and MW-18:091523 (590-21723-29).

#### GC/MS VOA

Method NWTPH-Gx: The method blank for analytical batch 590-43561 contained Gasoline above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8260D: The method blank for analytical batch 590-43562 contained Naphthalene above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8260D: Surrogate recovery for the following sample was outside control limits: B-11 (5-6.5) (590-21723-31). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method NWTPH-Gx: The following samples were analyzed outside of analytical holding time due to analyst error: B-9 (37.5-39) (590-21723-74) and B-9 (40-41.5) (590-21723-75).

Method 8260D: The following samples were analyzed outside of analytical holding time due to analyst error: B-9 (37.5-39) (590-21723-74) and B-9 (40-41.5) (590-21723-75).

Method NWTPH-Gx: Insufficient sample volume was available to perform a sample duplicate (DUP) associated with preparation batch 590-43762 and analytical batch 590-43764.

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

#### GC VOA

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

#### GC Semi VOA

Method 300.0: The following samples were received outside of holding time: MW-3:091523 (590-21723-24), MW-9:091523 (590-21723-25) and MW-18:091523 (590-21723-29).

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

#### Metals

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

#### General Chemistry

Method SM 2320B: The method blank for analytical batch 590-43814 contained Alkalinity above the method detection limit (MDL) and below the reporting limit (RL). Associated samples were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

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

#### VOA Prep

Method 5035: The following sample, MeOH VOA vial contains no soil sample and the unpreserved bulk sample jar was used instead with

# Case Narrative

Client: GeoEngineers Inc  
Project/Site: Kwik Stop/0504-05-07

Job ID: 590-21723-1

---

## Job ID: 590-21723-1 (Continued)

---

### Laboratory: Eurofins Spokane (Continued)

client approval: B-10 (32.5-34) (590-21723-54)

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

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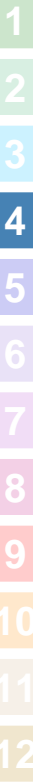
12

# Sample Summary

Client: GeoEngineers Inc  
Project/Site: Kwik Stop/0504-05-07

Job ID: 590-21723-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-21723-2	B-12 (5-6.5)	Solid	09/14/23 10:35	09/18/23 09:23
590-21723-7	B-12 (17.5-19)	Solid	09/14/23 11:10	09/18/23 09:23
590-21723-15	B-12 (37.5-39)	Solid	09/14/23 12:30	09/18/23 09:23
590-21723-16	B-12 (40-41.5)	Solid	09/14/23 12:40	09/18/23 09:23
590-21723-19	B-9 (12.5-14)	Solid	09/13/23 14:40	09/18/23 09:23
590-21723-23	B-9 (27.5-29)	Solid	09/13/23 15:00	09/18/23 09:23
590-21723-24	MW-3:091523	Water	09/15/23 08:55	09/18/23 09:23
590-21723-25	MW-9:091523	Water	09/15/23 10:02	09/18/23 09:23
590-21723-26	MW-10:091523	Water	09/15/23 12:23	09/18/23 09:23
590-21723-27	MW-11:091523	Water	09/15/23 11:39	09/18/23 09:23
590-21723-28	MW-15:091523	Water	09/15/23 13:15	09/18/23 09:23
590-21723-29	MW-18:091523	Water	09/15/23 10:57	09/18/23 09:23
590-21723-31	B-11 (5-6.5)	Solid	09/14/23 13:45	09/18/23 09:23
590-21723-37	B-11 (20-21.5)	Solid	09/14/23 14:15	09/18/23 09:23
590-21723-42	B-11 (32.5-34)	Solid	09/14/23 15:00	09/18/23 09:23
590-21723-45	B-11 (40-41.5)	Solid	09/14/23 15:35	09/18/23 09:23
590-21723-47	B-10 (10-11.5)	Solid	09/14/23 08:26	09/18/23 09:23
590-21723-51	B-10 (25-26.5)	Solid	09/14/23 08:44	09/18/23 09:23
590-21723-54	B-10 (32.5-34)	Solid	09/14/23 09:00	09/18/23 09:23
590-21723-56	B-10 (40-41.5)	Solid	09/14/23 09:25	09/18/23 09:23
590-21723-62	B-8 (12.5-14)	Solid	09/13/23 12:40	09/18/23 09:23
590-21723-67	B-8 (25-26.5)	Solid	09/13/23 13:20	09/18/23 09:23
590-21723-72	B-8 (37.5-39)	Solid	09/13/23 13:45	09/18/23 09:23
590-21723-73	B-8 (40-41.5)	Solid	09/13/23 14:00	09/18/23 09:23
590-21723-74	B-9 (37.5-39)	Solid	09/13/23 15:20	09/18/23 09:23
590-21723-75	B-9 (40-41.5)	Solid	09/13/23 15:50	09/18/23 09:23





# Definitions/Glossary

Client: GeoEngineers Inc  
Project/Site: Kwik Stop/0504-05-07

Job ID: 590-21723-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

### HPLC/IC

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
H3	Sample was received and analyzed past holding time. This does not meet regulatory requirements.

### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)

# Definitions/Glossary

Client: GeoEngineers Inc  
Project/Site: Kwik Stop/0504-05-07

Job ID: 590-21723-1

## Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Kwik Stop/0504-05-07

Job ID: 590-21723-1

**Client Sample ID: B-12 (5-6.5)**

**Lab Sample ID: 590-21723-2**

Date Collected: 09/14/23 10:35

Matrix: Solid

Date Received: 09/18/23 09:23

Percent Solids: 81.2

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.042	0.021	mg/Kg	✱	09/27/23 10:40	09/27/23 14:05	1
Ethylbenzene	ND		0.21	0.034	mg/Kg	✱	09/27/23 10:40	09/27/23 14:05	1
m,p-Xylene	ND		0.85	0.061	mg/Kg	✱	09/27/23 10:40	09/27/23 14:05	1
o-Xylene	ND		0.42	0.049	mg/Kg	✱	09/27/23 10:40	09/27/23 14:05	1
<b>Toluene</b>	<b>0.073</b>	<b>J</b>	0.21	0.028	mg/Kg	✱	09/27/23 10:40	09/27/23 14:05	1
<b>Naphthalene</b>	<b>0.19</b>	<b>J</b>	0.42	0.059	mg/Kg	✱	09/27/23 10:40	09/27/23 14:05	1
Xylenes, Total	ND		1.3	0.11	mg/Kg	✱	09/27/23 10:40	09/27/23 14:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		79 - 124	09/27/23 10:40	09/27/23 14:05	1
4-Bromofluorobenzene (Surr)	105		66 - 129	09/27/23 10:40	09/27/23 14:05	1
Dibromofluoromethane (Surr)	104		80 - 120	09/27/23 10:40	09/27/23 14:05	1
Toluene-d8 (Surr)	108		80 - 120	09/27/23 10:40	09/27/23 14:05	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Gasoline</b>	<b>400</b>		11	3.8	mg/Kg	✱	09/27/23 10:40	09/27/23 14:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		41.5 - 162	09/27/23 10:40	09/27/23 14:05	1

**Method: SW846 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>3400</b>		410	120	mg/Kg	✱	09/29/23 14:01	09/29/23 16:04	5
<b>Iron</b>	<b>21000</b>		410	170	mg/Kg	✱	09/29/23 14:01	09/29/23 16:04	5
<b>Magnesium</b>	<b>4500</b>		200	36	mg/Kg	✱	09/29/23 14:01	09/29/23 16:04	5
<b>Manganese</b>	<b>390</b>		61	4.2	mg/Kg	✱	09/29/23 14:01	09/29/23 16:04	5
<b>Potassium</b>	<b>2000</b>		100	51	mg/Kg	✱	09/29/23 14:01	10/03/23 19:21	5
<b>Sodium</b>	<b>160</b>		100	42	mg/Kg	✱	09/29/23 14:01	09/29/23 16:04	5

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Organic Carbon - Average Dup (SW846 9060A)</b>	<b>1500</b>	<b>J</b>	2000	97	mg/Kg			10/05/23 21:52	1

**Client Sample ID: B-12 (17.5-19)**

**Lab Sample ID: 590-21723-7**

Date Collected: 09/14/23 11:10

Matrix: Solid

Date Received: 09/18/23 09:23

Percent Solids: 93.2

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.051	0.026	mg/Kg	✱	09/27/23 10:40	09/27/23 14:48	1
Ethylbenzene	ND		0.26	0.042	mg/Kg	✱	09/27/23 10:40	09/27/23 14:48	1
m,p-Xylene	ND		1.0	0.074	mg/Kg	✱	09/27/23 10:40	09/27/23 14:48	1
o-Xylene	ND		0.51	0.059	mg/Kg	✱	09/27/23 10:40	09/27/23 14:48	1
Toluene	ND		0.26	0.034	mg/Kg	✱	09/27/23 10:40	09/27/23 14:48	1
Naphthalene	ND		0.51	0.072	mg/Kg	✱	09/27/23 10:40	09/27/23 14:48	1
Xylenes, Total	ND		1.5	0.13	mg/Kg	✱	09/27/23 10:40	09/27/23 14:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		79 - 124	09/27/23 10:40	09/27/23 14:48	1
4-Bromofluorobenzene (Surr)	104		66 - 129	09/27/23 10:40	09/27/23 14:48	1

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# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Kwik Stop/0504-05-07

Job ID: 590-21723-1

**Client Sample ID: B-12 (17.5-19)**

**Lab Sample ID: 590-21723-7**

Date Collected: 09/14/23 11:10

Matrix: Solid

Date Received: 09/18/23 09:23

Percent Solids: 93.2

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	102		80 - 120	09/27/23 10:40	09/27/23 14:48	1
Toluene-d8 (Surr)	100		80 - 120	09/27/23 10:40	09/27/23 14:48	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	13		13	4.6	mg/Kg	☆	09/27/23 10:40	09/27/23 14:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		41.5 - 162	09/27/23 10:40	09/27/23 14:48	1

**Client Sample ID: B-12 (37.5-39)**

**Lab Sample ID: 590-21723-15**

Date Collected: 09/14/23 12:30

Matrix: Solid

Date Received: 09/18/23 09:23

Percent Solids: 87.4

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.041	0.021	mg/Kg	☆	09/27/23 10:40	09/27/23 16:14	1
Ethylbenzene	ND		0.21	0.034	mg/Kg	☆	09/27/23 10:40	09/27/23 16:14	1
m,p-Xylene	ND		0.83	0.059	mg/Kg	☆	09/27/23 10:40	09/27/23 16:14	1
o-Xylene	ND		0.41	0.048	mg/Kg	☆	09/27/23 10:40	09/27/23 16:14	1
Toluene	0.055	J	0.21	0.028	mg/Kg	☆	09/27/23 10:40	09/27/23 16:14	1
Naphthalene	0.11	J	0.41	0.058	mg/Kg	☆	09/27/23 10:40	09/27/23 16:14	1
Xylenes, Total	ND		1.2	0.11	mg/Kg	☆	09/27/23 10:40	09/27/23 16:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		79 - 124	09/27/23 10:40	09/27/23 16:14	1
4-Bromofluorobenzene (Surr)	103		66 - 129	09/27/23 10:40	09/27/23 16:14	1
Dibromofluoromethane (Surr)	100		80 - 120	09/27/23 10:40	09/27/23 16:14	1
Toluene-d8 (Surr)	101		80 - 120	09/27/23 10:40	09/27/23 16:14	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	150		10	3.7	mg/Kg	☆	09/27/23 10:40	09/27/23 16:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		41.5 - 162	09/27/23 10:40	09/27/23 16:14	1

**Client Sample ID: B-12 (40-41.5)**

**Lab Sample ID: 590-21723-16**

Date Collected: 09/14/23 12:40

Matrix: Solid

Date Received: 09/18/23 09:23

Percent Solids: 79.5

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.052	0.026	mg/Kg	☆	09/27/23 10:40	09/27/23 16:35	1
Ethylbenzene	ND		0.26	0.042	mg/Kg	☆	09/27/23 10:40	09/27/23 16:35	1
m,p-Xylene	ND		1.0	0.074	mg/Kg	☆	09/27/23 10:40	09/27/23 16:35	1
o-Xylene	ND		0.52	0.059	mg/Kg	☆	09/27/23 10:40	09/27/23 16:35	1
Toluene	0.29		0.26	0.034	mg/Kg	☆	09/27/23 10:40	09/27/23 16:35	1
Naphthalene	ND		0.52	0.072	mg/Kg	☆	09/27/23 10:40	09/27/23 16:35	1
Xylenes, Total	ND		1.5	0.13	mg/Kg	☆	09/27/23 10:40	09/27/23 16:35	1

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# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Kwik Stop/0504-05-07

Job ID: 590-21723-1

## Client Sample ID: B-12 (40-41.5)

Date Collected: 09/14/23 12:40

Date Received: 09/18/23 09:23

## Lab Sample ID: 590-21723-16

Matrix: Solid

Percent Solids: 79.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		79 - 124	09/27/23 10:40	09/27/23 16:35	1
4-Bromofluorobenzene (Surr)	97		66 - 129	09/27/23 10:40	09/27/23 16:35	1
Dibromofluoromethane (Surr)	106		80 - 120	09/27/23 10:40	09/27/23 16:35	1
Toluene-d8 (Surr)	97		80 - 120	09/27/23 10:40	09/27/23 16:35	1

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	7.8	J	13	4.6	mg/Kg	☆	09/27/23 10:40	09/27/23 16:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		41.5 - 162	09/27/23 10:40	09/27/23 16:35	1

## Client Sample ID: B-9 (12.5-14)

Date Collected: 09/13/23 14:40

Date Received: 09/18/23 09:23

## Lab Sample ID: 590-21723-19

Matrix: Solid

Percent Solids: 94.4

### Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.049	0.024	mg/Kg	☆	09/27/23 10:40	09/27/23 16:57	1
Ethylbenzene	ND		0.24	0.040	mg/Kg	☆	09/27/23 10:40	09/27/23 16:57	1
m,p-Xylene	ND		0.98	0.070	mg/Kg	☆	09/27/23 10:40	09/27/23 16:57	1
o-Xylene	ND		0.49	0.056	mg/Kg	☆	09/27/23 10:40	09/27/23 16:57	1
Toluene	ND		0.24	0.032	mg/Kg	☆	09/27/23 10:40	09/27/23 16:57	1
Naphthalene	ND		0.49	0.068	mg/Kg	☆	09/27/23 10:40	09/27/23 16:57	1
Xylenes, Total	ND		1.5	0.13	mg/Kg	☆	09/27/23 10:40	09/27/23 16:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		79 - 124	09/27/23 10:40	09/27/23 16:57	1
4-Bromofluorobenzene (Surr)	101		66 - 129	09/27/23 10:40	09/27/23 16:57	1
Dibromofluoromethane (Surr)	104		80 - 120	09/27/23 10:40	09/27/23 16:57	1
Toluene-d8 (Surr)	97		80 - 120	09/27/23 10:40	09/27/23 16:57	1

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		12	4.4	mg/Kg	☆	09/27/23 10:40	09/27/23 16:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		41.5 - 162	09/27/23 10:40	09/27/23 16:57	1

## Client Sample ID: B-9 (27.5-29)

Date Collected: 09/13/23 15:00

Date Received: 09/18/23 09:23

## Lab Sample ID: 590-21723-23

Matrix: Solid

Percent Solids: 94.2

### Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.045	0.022	mg/Kg	☆	09/27/23 10:40	09/27/23 17:18	1
Ethylbenzene	ND		0.22	0.036	mg/Kg	☆	09/27/23 10:40	09/27/23 17:18	1
m,p-Xylene	ND		0.90	0.064	mg/Kg	☆	09/27/23 10:40	09/27/23 17:18	1
o-Xylene	ND		0.45	0.052	mg/Kg	☆	09/27/23 10:40	09/27/23 17:18	1
Toluene	ND		0.22	0.030	mg/Kg	☆	09/27/23 10:40	09/27/23 17:18	1
Naphthalene	ND		0.45	0.063	mg/Kg	☆	09/27/23 10:40	09/27/23 17:18	1
Xylenes, Total	ND		1.3	0.12	mg/Kg	☆	09/27/23 10:40	09/27/23 17:18	1

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# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Kwik Stop/0504-05-07

Job ID: 590-21723-1

**Client Sample ID: B-9 (27.5-29)**

**Lab Sample ID: 590-21723-23**

Date Collected: 09/13/23 15:00

Matrix: Solid

Date Received: 09/18/23 09:23

Percent Solids: 94.2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		79 - 124	09/27/23 10:40	09/27/23 17:18	1
4-Bromofluorobenzene (Surr)	101		66 - 129	09/27/23 10:40	09/27/23 17:18	1
Dibromofluoromethane (Surr)	103		80 - 120	09/27/23 10:40	09/27/23 17:18	1
Toluene-d8 (Surr)	94		80 - 120	09/27/23 10:40	09/27/23 17:18	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		11	4.0	mg/Kg	☆	09/27/23 10:40	09/27/23 17:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		41.5 - 162	09/27/23 10:40	09/27/23 17:18	1

**Client Sample ID: MW-3:091523**

**Lab Sample ID: 590-21723-24**

Date Collected: 09/15/23 08:55

Matrix: Water

Date Received: 09/18/23 09:23

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.40	0.093	ug/L			09/19/23 23:52	1
Ethylbenzene	1.9		1.0	0.20	ug/L			09/19/23 23:52	1
m,p-Xylene	4.0		2.0	0.28	ug/L			09/19/23 23:52	1
Naphthalene	3.6	B	2.0	0.63	ug/L			09/19/23 23:52	1
o-Xylene	ND		1.0	0.16	ug/L			09/19/23 23:52	1
Toluene	ND		1.0	0.31	ug/L			09/19/23 23:52	1
Xylenes, Total	4.0		3.0	0.44	ug/L			09/19/23 23:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		80 - 120		09/19/23 23:52	1
4-Bromofluorobenzene (Surr)	93		76 - 120		09/19/23 23:52	1
Dibromofluoromethane (Surr)	99		80 - 123		09/19/23 23:52	1
Toluene-d8 (Surr)	109		80 - 120		09/19/23 23:52	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	1000	B	150	31	ug/L			09/19/23 23:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		68.7 - 141		09/19/23 23:52	1

**Method: RSK-175 - Dissolved Gases (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		5.0	0.63	ug/L			09/22/23 00:50	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND	H H3	0.20	0.057	mg/L			09/19/23 15:40	1
Sulfate	13		0.50	0.13	mg/L			09/19/23 15:40	1

**Method: EPA 200.8 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	7.1		0.10	0.013	mg/L		09/25/23 16:28	09/27/23 03:56	1
Manganese	1.2		0.0020	0.00046	mg/L		09/25/23 16:28	09/27/23 03:56	1

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# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Kwik Stop/0504-05-07

Job ID: 590-21723-1

## Client Sample ID: MW-3:091523

## Lab Sample ID: 590-21723-24

Date Collected: 09/15/23 08:55

Matrix: Water

Date Received: 09/18/23 09:23

### Method: EPA 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.091	J	0.10	0.013	mg/L		09/21/23 17:58	09/22/23 14:05	1
Manganese	0.89		0.0020	0.00046	mg/L		09/21/23 17:58	09/22/23 14:05	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	160	B	20	5.0	mg/L			09/28/23 15:05	1
Total Organic Carbon (SM 5310C)	5.0		1.5	0.38	mg/L			09/29/23 18:48	1

## Client Sample ID: MW-9:091523

## Lab Sample ID: 590-21723-25

Date Collected: 09/15/23 10:02

Matrix: Water

Date Received: 09/18/23 09:23

### Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.40	0.093	ug/L			09/20/23 00:14	1
Ethylbenzene	ND		1.0	0.20	ug/L			09/20/23 00:14	1
m,p-Xylene	ND		2.0	0.28	ug/L			09/20/23 00:14	1
Naphthalene	ND		2.0	0.63	ug/L			09/20/23 00:14	1
o-Xylene	ND		1.0	0.16	ug/L			09/20/23 00:14	1
Toluene	ND		1.0	0.31	ug/L			09/20/23 00:14	1
Xylenes, Total	ND		3.0	0.44	ug/L			09/20/23 00:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		80 - 120		09/20/23 00:14	1
4-Bromofluorobenzene (Surr)	110		76 - 120		09/20/23 00:14	1
Dibromofluoromethane (Surr)	104		80 - 123		09/20/23 00:14	1
Toluene-d8 (Surr)	104		80 - 120		09/20/23 00:14	1

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	48	J B	150	31	ug/L			09/20/23 00:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		68.7 - 141		09/20/23 00:14	1

### Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		5.0	0.63	ug/L			09/22/23 01:03	1

### Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	4.7	H H3	0.20	0.057	mg/L			09/19/23 15:50	1
Sulfate	18		0.50	0.13	mg/L			09/19/23 15:50	1

### Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.30		0.10	0.013	mg/L		09/25/23 16:28	09/27/23 03:59	1
Manganese	0.35		0.0020	0.00046	mg/L		09/25/23 16:28	09/27/23 03:59	1

### Method: EPA 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.065	J	0.10	0.013	mg/L		09/21/23 17:58	09/22/23 14:02	1

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# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Kwik Stop/0504-05-07

Job ID: 590-21723-1

**Client Sample ID: MW-9:091523**

**Lab Sample ID: 590-21723-25**

Date Collected: 09/15/23 10:02

Matrix: Water

Date Received: 09/18/23 09:23

**Method: EPA 200.8 - Metals (ICP/MS) - Dissolved (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.00070	J	0.0020	0.00046	mg/L		09/21/23 17:58	09/22/23 14:02	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	170	B	20	5.0	mg/L			09/28/23 15:05	1
Total Organic Carbon (SM 5310C)	2.1		1.5	0.38	mg/L			09/29/23 19:05	1

**Client Sample ID: MW-10:091523**

**Lab Sample ID: 590-21723-26**

Date Collected: 09/15/23 12:23

Matrix: Water

Date Received: 09/18/23 09:23

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.40	0.093	ug/L			09/20/23 00:36	1
Ethylbenzene	ND		1.0	0.20	ug/L			09/20/23 00:36	1
m,p-Xylene	ND		2.0	0.28	ug/L			09/20/23 00:36	1
Naphthalene	ND		2.0	0.63	ug/L			09/20/23 00:36	1
o-Xylene	ND		1.0	0.16	ug/L			09/20/23 00:36	1
Toluene	ND		1.0	0.31	ug/L			09/20/23 00:36	1
Xylenes, Total	ND		3.0	0.44	ug/L			09/20/23 00:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		80 - 120		09/20/23 00:36	1
4-Bromofluorobenzene (Surr)	105		76 - 120		09/20/23 00:36	1
Dibromofluoromethane (Surr)	106		80 - 123		09/20/23 00:36	1
Toluene-d8 (Surr)	105		80 - 120		09/20/23 00:36	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	47	J B	150	31	ug/L			09/20/23 00:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		68.7 - 141		09/20/23 00:36	1

**Client Sample ID: MW-11:091523**

**Lab Sample ID: 590-21723-27**

Date Collected: 09/15/23 11:39

Matrix: Water

Date Received: 09/18/23 09:23

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.40	0.093	ug/L			09/20/23 00:58	1
Ethylbenzene	ND		1.0	0.20	ug/L			09/20/23 00:58	1
m,p-Xylene	ND		2.0	0.28	ug/L			09/20/23 00:58	1
Naphthalene	ND		2.0	0.63	ug/L			09/20/23 00:58	1
o-Xylene	ND		1.0	0.16	ug/L			09/20/23 00:58	1
Toluene	ND		1.0	0.31	ug/L			09/20/23 00:58	1
Xylenes, Total	ND		3.0	0.44	ug/L			09/20/23 00:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		80 - 120		09/20/23 00:58	1
4-Bromofluorobenzene (Surr)	106		76 - 120		09/20/23 00:58	1
Dibromofluoromethane (Surr)	105		80 - 123		09/20/23 00:58	1

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# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Kwik Stop/0504-05-07

Job ID: 590-21723-1

**Client Sample ID: MW-11:091523**

**Lab Sample ID: 590-21723-27**

Date Collected: 09/15/23 11:39

Matrix: Water

Date Received: 09/18/23 09:23

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	105		80 - 120		09/20/23 00:58	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	46	J B	150	31	ug/L			09/20/23 00:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		68.7 - 141		09/20/23 00:58	1

**Client Sample ID: MW-15:091523**

**Lab Sample ID: 590-21723-28**

Date Collected: 09/15/23 13:15

Matrix: Water

Date Received: 09/18/23 09:23

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.40	0.093	ug/L			09/20/23 01:42	1
Ethylbenzene	ND		1.0	0.20	ug/L			09/20/23 01:42	1
m,p-Xylene	ND		2.0	0.28	ug/L			09/20/23 01:42	1
Naphthalene	ND		2.0	0.63	ug/L			09/20/23 01:42	1
o-Xylene	ND		1.0	0.16	ug/L			09/20/23 01:42	1
Toluene	ND		1.0	0.31	ug/L			09/20/23 01:42	1
Xylenes, Total	ND		3.0	0.44	ug/L			09/20/23 01:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		80 - 120		09/20/23 01:42	1
4-Bromofluorobenzene (Surr)	100		76 - 120		09/20/23 01:42	1
Dibromofluoromethane (Surr)	104		80 - 123		09/20/23 01:42	1
Toluene-d8 (Surr)	104		80 - 120		09/20/23 01:42	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	31	ug/L			09/26/23 00:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		68.7 - 141		09/26/23 00:00	1

**Client Sample ID: MW-18:091523**

**Lab Sample ID: 590-21723-29**

Date Collected: 09/15/23 10:57

Matrix: Water

Date Received: 09/18/23 09:23

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.40	0.093	ug/L			09/20/23 02:04	1
Ethylbenzene	ND		1.0	0.20	ug/L			09/20/23 02:04	1
m,p-Xylene	ND		2.0	0.28	ug/L			09/20/23 02:04	1
Naphthalene	ND		2.0	0.63	ug/L			09/20/23 02:04	1
o-Xylene	ND		1.0	0.16	ug/L			09/20/23 02:04	1
Toluene	ND		1.0	0.31	ug/L			09/20/23 02:04	1
Xylenes, Total	ND		3.0	0.44	ug/L			09/20/23 02:04	1

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# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Kwik Stop/0504-05-07

Job ID: 590-21723-1

**Client Sample ID: MW-18:091523**

**Lab Sample ID: 590-21723-29**

Date Collected: 09/15/23 10:57

Matrix: Water

Date Received: 09/18/23 09:23

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		80 - 120		09/20/23 02:04	1
4-Bromofluorobenzene (Surr)	106		76 - 120		09/20/23 02:04	1
Dibromofluoromethane (Surr)	107		80 - 123		09/20/23 02:04	1
Toluene-d8 (Surr)	105		80 - 120		09/20/23 02:04	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	31	ug/L			09/26/23 00:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		68.7 - 141		09/26/23 00:21	1

**Method: RSK-175 - Dissolved Gases (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		5.0	0.63	ug/L			09/22/23 01:16	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.56	H H3	0.20	0.057	mg/L			09/19/23 16:01	1
Sulfate	3.8		0.50	0.13	mg/L			09/19/23 16:01	1

**Method: EPA 200.8 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.058	J	0.10	0.013	mg/L		09/25/23 16:28	09/27/23 02:20	1
Manganese	0.0013	J	0.0020	0.00046	mg/L		09/25/23 16:28	09/27/23 02:20	1

**Method: EPA 200.8 - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.049	J	0.10	0.013	mg/L		09/21/23 17:58	09/22/23 14:40	1
Manganese	ND		0.0020	0.00046	mg/L		09/21/23 17:58	09/22/23 14:40	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	160	B	20	5.0	mg/L			09/28/23 15:05	1
Total Organic Carbon (SM 5310C)	1.6		1.5	0.38	mg/L			09/29/23 19:23	1

**Client Sample ID: B-11 (5-6.5)**

**Lab Sample ID: 590-21723-31**

Date Collected: 09/14/23 13:45

Matrix: Solid

Date Received: 09/18/23 09:23

Percent Solids: 82.9

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.041	0.020	mg/Kg	☼	09/27/23 10:40	09/27/23 17:40	1
Ethylbenzene	0.31		0.20	0.033	mg/Kg	☼	09/27/23 10:40	09/27/23 17:40	1
m,p-Xylene	72		8.1	0.58	mg/Kg	☼	09/27/23 10:40	09/28/23 14:30	10
o-Xylene	37		4.1	0.47	mg/Kg	☼	09/27/23 10:40	09/28/23 14:30	10
Toluene	0.31		0.20	0.027	mg/Kg	☼	09/27/23 10:40	09/27/23 17:40	1
Naphthalene	12		4.1	0.57	mg/Kg	☼	09/27/23 10:40	09/28/23 14:30	10
Xylenes, Total	110		12	1.0	mg/Kg	☼	09/27/23 10:40	09/28/23 14:30	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		79 - 124	09/27/23 10:40	09/27/23 17:40	1

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# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Kwik Stop/0504-05-07

Job ID: 590-21723-1

**Client Sample ID: B-11 (5-6.5)**

**Lab Sample ID: 590-21723-31**

Date Collected: 09/14/23 13:45

Matrix: Solid

Date Received: 09/18/23 09:23

Percent Solids: 82.9

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		79 - 124	09/27/23 10:40	09/28/23 14:30	10
4-Bromofluorobenzene (Surr)	81		66 - 129	09/27/23 10:40	09/27/23 17:40	1
4-Bromofluorobenzene (Surr)	103		66 - 129	09/27/23 10:40	09/28/23 14:30	10
Dibromofluoromethane (Surr)	102		80 - 120	09/27/23 10:40	09/27/23 17:40	1
Dibromofluoromethane (Surr)	101		80 - 120	09/27/23 10:40	09/28/23 14:30	10
Toluene-d8 (Surr)	122	S1+	80 - 120	09/27/23 10:40	09/27/23 17:40	1
Toluene-d8 (Surr)	102		80 - 120	09/27/23 10:40	09/28/23 14:30	10

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	2200		100	36	mg/Kg	☼	09/27/23 10:40	09/28/23 14:30	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		41.5 - 162	09/27/23 10:40	09/28/23 14:30	10
4-Bromofluorobenzene (Surr)	105		41.5 - 162	09/27/23 10:40	09/28/23 14:52	100

**Method: SW846 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	3200		420	130	mg/Kg	☼	09/29/23 14:01	09/29/23 16:08	5
Iron	21000		420	180	mg/Kg	☼	09/29/23 14:01	09/29/23 16:08	5
Magnesium	4500		210	38	mg/Kg	☼	09/29/23 14:01	09/29/23 16:08	5
Manganese	410		64	4.4	mg/Kg	☼	09/29/23 14:01	09/29/23 16:08	5
Potassium	2000		110	53	mg/Kg	☼	09/29/23 14:01	10/03/23 19:25	5
Sodium	150		110	44	mg/Kg	☼	09/29/23 14:01	09/29/23 16:08	5

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Average Dup (SW846 9060A)	1300	J	2000	97	mg/Kg			10/05/23 22:05	1

**Client Sample ID: B-11 (20-21.5)**

**Lab Sample ID: 590-21723-37**

Date Collected: 09/14/23 14:15

Matrix: Solid

Date Received: 09/18/23 09:23

Percent Solids: 94.7

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.050	0.025	mg/Kg	☼	09/27/23 10:40	09/27/23 18:02	1
Ethylbenzene	ND		0.25	0.040	mg/Kg	☼	09/27/23 10:40	09/27/23 18:02	1
m,p-Xylene	ND		0.99	0.071	mg/Kg	☼	09/27/23 10:40	09/27/23 18:02	1
o-Xylene	ND		0.50	0.057	mg/Kg	☼	09/27/23 10:40	09/27/23 18:02	1
Toluene	ND		0.25	0.033	mg/Kg	☼	09/27/23 10:40	09/27/23 18:02	1
Naphthalene	0.36	J	0.50	0.070	mg/Kg	☼	09/27/23 10:40	09/27/23 18:02	1
Xylenes, Total	ND		1.5	0.13	mg/Kg	☼	09/27/23 10:40	09/27/23 18:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		79 - 124	09/27/23 10:40	09/27/23 18:02	1
4-Bromofluorobenzene (Surr)	106		66 - 129	09/27/23 10:40	09/27/23 18:02	1
Dibromofluoromethane (Surr)	102		80 - 120	09/27/23 10:40	09/27/23 18:02	1
Toluene-d8 (Surr)	97		80 - 120	09/27/23 10:40	09/27/23 18:02	1

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# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Kwik Stop/0504-05-07

Job ID: 590-21723-1

## Client Sample ID: B-11 (20-21.5)

Lab Sample ID: 590-21723-37

Date Collected: 09/14/23 14:15

Matrix: Solid

Date Received: 09/18/23 09:23

Percent Solids: 94.7

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	51		12	4.5	mg/Kg	✱	09/27/23 10:40	09/27/23 18:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		41.5 - 162				09/27/23 10:40	09/27/23 18:02	1

## Client Sample ID: B-11 (32.5-34)

Lab Sample ID: 590-21723-42

Date Collected: 09/14/23 15:00

Matrix: Solid

Date Received: 09/18/23 09:23

Percent Solids: 93.5

### Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.041	0.021	mg/Kg	✱	09/27/23 10:40	09/27/23 18:24	1
Ethylbenzene	ND		0.21	0.033	mg/Kg	✱	09/27/23 10:40	09/27/23 18:24	1
m,p-Xylene	2.4		0.82	0.059	mg/Kg	✱	09/27/23 10:40	09/27/23 18:24	1
o-Xylene	1.4		0.41	0.047	mg/Kg	✱	09/27/23 10:40	09/27/23 18:24	1
Toluene	ND		0.21	0.027	mg/Kg	✱	09/27/23 10:40	09/27/23 18:24	1
Naphthalene	0.62		0.41	0.058	mg/Kg	✱	09/27/23 10:40	09/27/23 18:24	1
Xylenes, Total	3.8		1.2	0.11	mg/Kg	✱	09/27/23 10:40	09/27/23 18:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		79 - 124				09/27/23 10:40	09/27/23 18:24	1
4-Bromofluorobenzene (Surr)	106		66 - 129				09/27/23 10:40	09/27/23 18:24	1
Dibromofluoromethane (Surr)	103		80 - 120				09/27/23 10:40	09/27/23 18:24	1
Toluene-d8 (Surr)	100		80 - 120				09/27/23 10:40	09/27/23 18:24	1

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	120		10	3.7	mg/Kg	✱	09/27/23 10:40	09/27/23 18:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		41.5 - 162				09/27/23 10:40	09/27/23 18:24	1

## Client Sample ID: B-11 (40-41.5)

Lab Sample ID: 590-21723-45

Date Collected: 09/14/23 15:35

Matrix: Solid

Date Received: 09/18/23 09:23

Percent Solids: 80.5

### Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.045	0.023	mg/Kg	✱	09/27/23 10:40	09/27/23 18:46	1
Ethylbenzene	ND		0.23	0.037	mg/Kg	✱	09/27/23 10:40	09/27/23 18:46	1
m,p-Xylene	ND		0.91	0.065	mg/Kg	✱	09/27/23 10:40	09/27/23 18:46	1
o-Xylene	ND		0.45	0.052	mg/Kg	✱	09/27/23 10:40	09/27/23 18:46	1
Toluene	0.039	J	0.23	0.030	mg/Kg	✱	09/27/23 10:40	09/27/23 18:46	1
Naphthalene	ND		0.45	0.064	mg/Kg	✱	09/27/23 10:40	09/27/23 18:46	1
Xylenes, Total	ND		1.4	0.12	mg/Kg	✱	09/27/23 10:40	09/27/23 18:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		79 - 124				09/27/23 10:40	09/27/23 18:46	1
4-Bromofluorobenzene (Surr)	100		66 - 129				09/27/23 10:40	09/27/23 18:46	1
Dibromofluoromethane (Surr)	101		80 - 120				09/27/23 10:40	09/27/23 18:46	1
Toluene-d8 (Surr)	98		80 - 120				09/27/23 10:40	09/27/23 18:46	1

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# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Kwik Stop/0504-05-07

Job ID: 590-21723-1

## Client Sample ID: B-11 (40-41.5)

Lab Sample ID: 590-21723-45

Date Collected: 09/14/23 15:35

Matrix: Solid

Date Received: 09/18/23 09:23

Percent Solids: 80.5

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	5.1	J	11	4.1	mg/Kg	☼	09/27/23 10:40	09/27/23 18:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		41.5 - 162				09/27/23 10:40	09/27/23 18:46	1

## Client Sample ID: B-10 (10-11.5)

Lab Sample ID: 590-21723-47

Date Collected: 09/14/23 08:26

Matrix: Solid

Date Received: 09/18/23 09:23

Percent Solids: 89.2

### Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.056	0.028	mg/Kg	☼	09/27/23 10:40	09/27/23 19:08	1
Ethylbenzene	ND		0.28	0.045	mg/Kg	☼	09/27/23 10:40	09/27/23 19:08	1
m,p-Xylene	ND		1.1	0.081	mg/Kg	☼	09/27/23 10:40	09/27/23 19:08	1
o-Xylene	ND		0.56	0.065	mg/Kg	☼	09/27/23 10:40	09/27/23 19:08	1
Toluene	ND		0.28	0.037	mg/Kg	☼	09/27/23 10:40	09/27/23 19:08	1
Naphthalene	ND		0.56	0.079	mg/Kg	☼	09/27/23 10:40	09/27/23 19:08	1
Xylenes, Total	ND		1.7	0.15	mg/Kg	☼	09/27/23 10:40	09/27/23 19:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		79 - 124				09/27/23 10:40	09/27/23 19:08	1
4-Bromofluorobenzene (Surr)	98		66 - 129				09/27/23 10:40	09/27/23 19:08	1
Dibromofluoromethane (Surr)	104		80 - 120				09/27/23 10:40	09/27/23 19:08	1
Toluene-d8 (Surr)	97		80 - 120				09/27/23 10:40	09/27/23 19:08	1

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		14	5.1	mg/Kg	☼	09/27/23 10:40	09/27/23 19:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		41.5 - 162				09/27/23 10:40	09/27/23 19:08	1

## Client Sample ID: B-10 (25-26.5)

Lab Sample ID: 590-21723-51

Date Collected: 09/14/23 08:44

Matrix: Solid

Date Received: 09/18/23 09:23

Percent Solids: 93.2

### Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.051	0.025	mg/Kg	☼	09/27/23 10:40	09/27/23 19:51	1
Ethylbenzene	ND		0.25	0.041	mg/Kg	☼	09/27/23 10:40	09/27/23 19:51	1
m,p-Xylene	ND		1.0	0.073	mg/Kg	☼	09/27/23 10:40	09/27/23 19:51	1
o-Xylene	ND		0.51	0.058	mg/Kg	☼	09/27/23 10:40	09/27/23 19:51	1
Toluene	ND		0.25	0.034	mg/Kg	☼	09/27/23 10:40	09/27/23 19:51	1
Naphthalene	ND		0.51	0.071	mg/Kg	☼	09/27/23 10:40	09/27/23 19:51	1
Xylenes, Total	ND		1.5	0.13	mg/Kg	☼	09/27/23 10:40	09/27/23 19:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		79 - 124				09/27/23 10:40	09/27/23 19:51	1
4-Bromofluorobenzene (Surr)	101		66 - 129				09/27/23 10:40	09/27/23 19:51	1
Dibromofluoromethane (Surr)	103		80 - 120				09/27/23 10:40	09/27/23 19:51	1
Toluene-d8 (Surr)	97		80 - 120				09/27/23 10:40	09/27/23 19:51	1

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# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Kwik Stop/0504-05-07

Job ID: 590-21723-1

## Client Sample ID: B-10 (25-26.5)

Date Collected: 09/14/23 08:44

Date Received: 09/18/23 09:23

## Lab Sample ID: 590-21723-51

Matrix: Solid

Percent Solids: 93.2

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		13	4.6	mg/Kg	✱	09/27/23 10:40	09/27/23 19:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		41.5 - 162				09/27/23 10:40	09/27/23 19:51	1

## Client Sample ID: B-10 (32.5-34)

Date Collected: 09/14/23 09:00

Date Received: 09/18/23 09:23

## Lab Sample ID: 590-21723-54

Matrix: Solid

Percent Solids: 94.5

### Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.019	0.0095	mg/Kg	✱	09/27/23 10:40	09/27/23 20:13	1
Ethylbenzene	ND		0.095	0.015	mg/Kg	✱	09/27/23 10:40	09/27/23 20:13	1
m,p-Xylene	ND		0.38	0.027	mg/Kg	✱	09/27/23 10:40	09/27/23 20:13	1
o-Xylene	ND		0.19	0.022	mg/Kg	✱	09/27/23 10:40	09/27/23 20:13	1
Toluene	ND		0.095	0.013	mg/Kg	✱	09/27/23 10:40	09/27/23 20:13	1
Naphthalene	ND		0.19	0.027	mg/Kg	✱	09/27/23 10:40	09/27/23 20:13	1
Xylenes, Total	ND		0.57	0.049	mg/Kg	✱	09/27/23 10:40	09/27/23 20:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		79 - 124				09/27/23 10:40	09/27/23 20:13	1
4-Bromofluorobenzene (Surr)	97		66 - 129				09/27/23 10:40	09/27/23 20:13	1
Dibromofluoromethane (Surr)	101		80 - 120				09/27/23 10:40	09/27/23 20:13	1
Toluene-d8 (Surr)	96		80 - 120				09/27/23 10:40	09/27/23 20:13	1

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		4.8	1.7	mg/Kg	✱	09/27/23 10:40	09/27/23 20:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		41.5 - 162				09/27/23 10:40	09/27/23 20:13	1

## Client Sample ID: B-10 (40-41.5)

Date Collected: 09/14/23 09:25

Date Received: 09/18/23 09:23

## Lab Sample ID: 590-21723-56

Matrix: Solid

Percent Solids: 83.9

### Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.034	0.017	mg/Kg	✱	09/27/23 10:40	09/27/23 20:35	1
Ethylbenzene	ND		0.17	0.028	mg/Kg	✱	09/27/23 10:40	09/27/23 20:35	1
m,p-Xylene	ND		0.69	0.049	mg/Kg	✱	09/27/23 10:40	09/27/23 20:35	1
o-Xylene	ND		0.34	0.039	mg/Kg	✱	09/27/23 10:40	09/27/23 20:35	1
Toluene	ND		0.17	0.023	mg/Kg	✱	09/27/23 10:40	09/27/23 20:35	1
Naphthalene	ND		0.34	0.048	mg/Kg	✱	09/27/23 10:40	09/27/23 20:35	1
Xylenes, Total	ND		1.0	0.089	mg/Kg	✱	09/27/23 10:40	09/27/23 20:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		79 - 124				09/27/23 10:40	09/27/23 20:35	1
4-Bromofluorobenzene (Surr)	101		66 - 129				09/27/23 10:40	09/27/23 20:35	1
Dibromofluoromethane (Surr)	105		80 - 120				09/27/23 10:40	09/27/23 20:35	1
Toluene-d8 (Surr)	97		80 - 120				09/27/23 10:40	09/27/23 20:35	1

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# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Kwik Stop/0504-05-07

Job ID: 590-21723-1

## Client Sample ID: B-10 (40-41.5)

Lab Sample ID: 590-21723-56

Date Collected: 09/14/23 09:25

Matrix: Solid

Date Received: 09/18/23 09:23

Percent Solids: 83.9

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		8.6	3.1	mg/Kg	✱	09/27/23 10:40	09/27/23 20:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		41.5 - 162				09/27/23 10:40	09/27/23 20:35	1

## Client Sample ID: B-8 (12.5-14)

Lab Sample ID: 590-21723-62

Date Collected: 09/13/23 12:40

Matrix: Solid

Date Received: 09/18/23 09:23

Percent Solids: 93.2

### Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.051	0.026	mg/Kg	✱	09/27/23 10:40	09/27/23 20:57	1
Ethylbenzene	ND		0.26	0.041	mg/Kg	✱	09/27/23 10:40	09/27/23 20:57	1
m,p-Xylene	ND		1.0	0.073	mg/Kg	✱	09/27/23 10:40	09/27/23 20:57	1
o-Xylene	ND		0.51	0.059	mg/Kg	✱	09/27/23 10:40	09/27/23 20:57	1
Toluene	ND		0.26	0.034	mg/Kg	✱	09/27/23 10:40	09/27/23 20:57	1
Naphthalene	ND		0.51	0.072	mg/Kg	✱	09/27/23 10:40	09/27/23 20:57	1
Xylenes, Total	ND		1.5	0.13	mg/Kg	✱	09/27/23 10:40	09/27/23 20:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		79 - 124				09/27/23 10:40	09/27/23 20:57	1
4-Bromofluorobenzene (Surr)	98		66 - 129				09/27/23 10:40	09/27/23 20:57	1
Dibromofluoromethane (Surr)	102		80 - 120				09/27/23 10:40	09/27/23 20:57	1
Toluene-d8 (Surr)	97		80 - 120				09/27/23 10:40	09/27/23 20:57	1

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		13	4.6	mg/Kg	✱	09/27/23 10:40	09/27/23 20:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		41.5 - 162				09/27/23 10:40	09/27/23 20:57	1

## Client Sample ID: B-8 (25-26.5)

Lab Sample ID: 590-21723-67

Date Collected: 09/13/23 13:20

Matrix: Solid

Date Received: 09/18/23 09:23

Percent Solids: 96.0

### Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.048	0.024	mg/Kg	✱	09/27/23 10:40	09/27/23 21:18	1
Ethylbenzene	ND		0.24	0.039	mg/Kg	✱	09/27/23 10:40	09/27/23 21:18	1
m,p-Xylene	ND		0.97	0.069	mg/Kg	✱	09/27/23 10:40	09/27/23 21:18	1
o-Xylene	ND		0.48	0.056	mg/Kg	✱	09/27/23 10:40	09/27/23 21:18	1
Toluene	ND		0.24	0.032	mg/Kg	✱	09/27/23 10:40	09/27/23 21:18	1
Naphthalene	ND		0.48	0.068	mg/Kg	✱	09/27/23 10:40	09/27/23 21:18	1
Xylenes, Total	ND		1.5	0.12	mg/Kg	✱	09/27/23 10:40	09/27/23 21:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		79 - 124				09/27/23 10:40	09/27/23 21:18	1
4-Bromofluorobenzene (Surr)	102		66 - 129				09/27/23 10:40	09/27/23 21:18	1
Dibromofluoromethane (Surr)	105		80 - 120				09/27/23 10:40	09/27/23 21:18	1
Toluene-d8 (Surr)	100		80 - 120				09/27/23 10:40	09/27/23 21:18	1

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# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Kwik Stop/0504-05-07

Job ID: 590-21723-1

## Client Sample ID: B-8 (25-26.5)

Date Collected: 09/13/23 13:20

Date Received: 09/18/23 09:23

## Lab Sample ID: 590-21723-67

Matrix: Solid

Percent Solids: 96.0

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		12	4.4	mg/Kg	✱	09/27/23 10:40	09/27/23 21:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		41.5 - 162				09/27/23 10:40	09/27/23 21:18	1

## Client Sample ID: B-8 (37.5-39)

Date Collected: 09/13/23 13:45

Date Received: 09/18/23 09:23

## Lab Sample ID: 590-21723-72

Matrix: Solid

Percent Solids: 87.3

### Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.043	0.021	mg/Kg	✱	09/27/23 10:40	09/27/23 21:40	1
Ethylbenzene	ND		0.21	0.035	mg/Kg	✱	09/27/23 10:40	09/27/23 21:40	1
m,p-Xylene	ND		0.85	0.061	mg/Kg	✱	09/27/23 10:40	09/27/23 21:40	1
o-Xylene	ND		0.43	0.049	mg/Kg	✱	09/27/23 10:40	09/27/23 21:40	1
Toluene	ND		0.21	0.028	mg/Kg	✱	09/27/23 10:40	09/27/23 21:40	1
<b>Naphthalene</b>	<b>0.11</b>	<b>J</b>	0.43	0.060	mg/Kg	✱	09/27/23 10:40	09/27/23 21:40	1
Xylenes, Total	ND		1.3	0.11	mg/Kg	✱	09/27/23 10:40	09/27/23 21:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		79 - 124				09/27/23 10:40	09/27/23 21:40	1
4-Bromofluorobenzene (Surr)	100		66 - 129				09/27/23 10:40	09/27/23 21:40	1
Dibromofluoromethane (Surr)	92		80 - 120				09/27/23 10:40	09/27/23 21:40	1
Toluene-d8 (Surr)	99		80 - 120				09/27/23 10:40	09/27/23 21:40	1

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Gasoline</b>	<b>650</b>		11	3.8	mg/Kg	✱	09/27/23 10:40	09/27/23 21:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		41.5 - 162				09/27/23 10:40	09/27/23 21:40	1

## Client Sample ID: B-8 (40-41.5)

Date Collected: 09/13/23 14:00

Date Received: 09/18/23 09:23

## Lab Sample ID: 590-21723-73

Matrix: Solid

Percent Solids: 87.5

### Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.033	0.017	mg/Kg	✱	09/27/23 10:40	09/27/23 22:02	1
Ethylbenzene	ND		0.17	0.027	mg/Kg	✱	09/27/23 10:40	09/27/23 22:02	1
m,p-Xylene	ND		0.67	0.048	mg/Kg	✱	09/27/23 10:40	09/27/23 22:02	1
o-Xylene	ND		0.33	0.038	mg/Kg	✱	09/27/23 10:40	09/27/23 22:02	1
<b>Toluene</b>	<b>0.057</b>	<b>J</b>	0.17	0.022	mg/Kg	✱	09/27/23 10:40	09/27/23 22:02	1
Naphthalene	ND		0.33	0.047	mg/Kg	✱	09/27/23 10:40	09/27/23 22:02	1
Xylenes, Total	ND		1.0	0.086	mg/Kg	✱	09/27/23 10:40	09/27/23 22:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		79 - 124				09/27/23 10:40	09/27/23 22:02	1
4-Bromofluorobenzene (Surr)	96		66 - 129				09/27/23 10:40	09/27/23 22:02	1
Dibromofluoromethane (Surr)	96		80 - 120				09/27/23 10:40	09/27/23 22:02	1
Toluene-d8 (Surr)	98		80 - 120				09/27/23 10:40	09/27/23 22:02	1

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# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Kwik Stop/0504-05-07

Job ID: 590-21723-1

**Client Sample ID: B-8 (40-41.5)**

**Lab Sample ID: 590-21723-73**

Date Collected: 09/13/23 14:00

Matrix: Solid

Date Received: 09/18/23 09:23

Percent Solids: 87.5

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	110		8.3	3.0	mg/Kg	⊛	09/27/23 10:40	09/27/23 22:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		41.5 - 162				09/27/23 10:40	09/27/23 22:02	1

**Method: SW846 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	15000		410	120	mg/Kg	⊛	09/27/23 10:57	09/27/23 21:15	5
Iron	7900		410	180	mg/Kg	⊛	09/27/23 10:57	09/27/23 21:15	5
Magnesium	7800		200	36	mg/Kg	⊛	09/27/23 10:57	09/27/23 21:15	5
Manganese	170		61	4.2	mg/Kg	⊛	09/27/23 10:57	09/27/23 21:15	5
Potassium	520		100	51	mg/Kg	⊛	09/27/23 10:57	09/27/23 21:15	5
Sodium	92	J	100	42	mg/Kg	⊛	09/27/23 10:57	09/27/23 21:15	5

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Average Dup (SW846 9060A)	5200		2000	97	mg/Kg			10/05/23 22:10	1

**Client Sample ID: B-9 (37.5-39)**

**Lab Sample ID: 590-21723-74**

Date Collected: 09/13/23 15:20

Matrix: Solid

Date Received: 09/18/23 09:23

Percent Solids: 90.1

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	H	0.043	0.021	mg/Kg	⊛	09/27/23 15:18	09/28/23 01:38	1
Ethylbenzene	ND	H	0.21	0.035	mg/Kg	⊛	09/27/23 15:18	09/28/23 01:38	1
m,p-Xylene	ND	H	0.86	0.062	mg/Kg	⊛	09/27/23 15:18	09/28/23 01:38	1
o-Xylene	ND	H	0.43	0.049	mg/Kg	⊛	09/27/23 15:18	09/28/23 01:38	1
Toluene	ND	H	0.21	0.029	mg/Kg	⊛	09/27/23 15:18	09/28/23 01:38	1
Naphthalene	ND	H	0.43	0.060	mg/Kg	⊛	09/27/23 15:18	09/28/23 01:38	1
Xylenes, Total	ND	H	1.3	0.11	mg/Kg	⊛	09/27/23 15:18	09/28/23 01:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		79 - 124				09/27/23 15:18	09/28/23 01:38	1
4-Bromofluorobenzene (Surr)	99		66 - 129				09/27/23 15:18	09/28/23 01:38	1
Dibromofluoromethane (Surr)	103		80 - 120				09/27/23 15:18	09/28/23 01:38	1
Toluene-d8 (Surr)	96		80 - 120				09/27/23 15:18	09/28/23 01:38	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	34	H	11	3.9	mg/Kg	⊛	09/27/23 15:18	09/28/23 01:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		41.5 - 162				09/27/23 15:18	09/28/23 01:38	1

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# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Kwik Stop/0504-05-07

Job ID: 590-21723-1

**Client Sample ID: B-9 (40-41.5)**

**Lab Sample ID: 590-21723-75**

Date Collected: 09/13/23 15:50

Matrix: Solid

Date Received: 09/18/23 09:23

Percent Solids: 85.5

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	H	0.046	0.023	mg/Kg	☼	09/27/23 15:18	09/28/23 02:00	1
Ethylbenzene	ND	H	0.23	0.038	mg/Kg	☼	09/27/23 15:18	09/28/23 02:00	1
m,p-Xylene	ND	H	0.93	0.067	mg/Kg	☼	09/27/23 15:18	09/28/23 02:00	1
o-Xylene	ND	H	0.46	0.053	mg/Kg	☼	09/27/23 15:18	09/28/23 02:00	1
<b>Toluene</b>	<b>0.28</b>	<b>H</b>	0.23	0.031	mg/Kg	☼	09/27/23 15:18	09/28/23 02:00	1
Naphthalene	ND	H	0.46	0.065	mg/Kg	☼	09/27/23 15:18	09/28/23 02:00	1
Xylenes, Total	ND	H	1.4	0.12	mg/Kg	☼	09/27/23 15:18	09/28/23 02:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		79 - 124	09/27/23 15:18	09/28/23 02:00	1
4-Bromofluorobenzene (Surr)	91		66 - 129	09/27/23 15:18	09/28/23 02:00	1
Dibromofluoromethane (Surr)	103		80 - 120	09/27/23 15:18	09/28/23 02:00	1
Toluene-d8 (Surr)	96		80 - 120	09/27/23 15:18	09/28/23 02:00	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Gasoline</b>	<b>11</b>	<b>J H</b>	12	4.2	mg/Kg	☼	09/27/23 15:18	09/28/23 02:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		41.5 - 162	09/27/23 15:18	09/28/23 02:00	1

**Method: SW846 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>13000</b>		400	120	mg/Kg	☼	09/27/23 10:57	09/27/23 21:32	5
<b>Iron</b>	<b>9700</b>		400	170	mg/Kg	☼	09/27/23 10:57	09/27/23 21:32	5
<b>Magnesium</b>	<b>7600</b>		200	36	mg/Kg	☼	09/27/23 10:57	09/27/23 21:32	5
<b>Manganese</b>	<b>140</b>		61	4.2	mg/Kg	☼	09/27/23 10:57	09/27/23 21:32	5
<b>Potassium</b>	<b>540</b>		100	50	mg/Kg	☼	09/27/23 10:57	09/27/23 21:32	5
<b>Sodium</b>	<b>91</b>	<b>J</b>	100	42	mg/Kg	☼	09/27/23 10:57	09/27/23 21:32	5

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Organic Carbon - Average Dup (SW846 9060A)</b>	<b>3100</b>		2000	97	mg/Kg			10/05/23 22:14	1

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Kwik Stop/0504-05-07

Job ID: 590-21723-1

## Method: 8260D - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 590-43562/6**  
**Matrix: Water**  
**Analysis Batch: 43562**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.40	0.093	ug/L			09/19/23 17:36	1
Ethylbenzene	ND		1.0	0.20	ug/L			09/19/23 17:36	1
m,p-Xylene	ND		2.0	0.28	ug/L			09/19/23 17:36	1
Naphthalene	0.666	J	2.0	0.63	ug/L			09/19/23 17:36	1
o-Xylene	ND		1.0	0.16	ug/L			09/19/23 17:36	1
Toluene	ND		1.0	0.31	ug/L			09/19/23 17:36	1
Xylenes, Total	ND		3.0	0.44	ug/L			09/19/23 17:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		80 - 120		09/19/23 17:36	1
4-Bromofluorobenzene (Surr)	107		76 - 120		09/19/23 17:36	1
Dibromofluoromethane (Surr)	93		80 - 123		09/19/23 17:36	1
Toluene-d8 (Surr)	104		80 - 120		09/19/23 17:36	1

**Lab Sample ID: LCS 590-43562/1003**  
**Matrix: Water**  
**Analysis Batch: 43562**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	10.0	9.97		ug/L		100	80 - 120
Ethylbenzene	10.0	9.75		ug/L		98	80 - 122
m,p-Xylene	10.0	9.11		ug/L		91	80 - 125
Naphthalene	10.0	9.38		ug/L		94	61 - 140
o-Xylene	10.0	8.80		ug/L		88	80 - 130
Toluene	10.0	9.87		ug/L		99	80 - 129

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	86		80 - 120
4-Bromofluorobenzene (Surr)	104		76 - 120
Dibromofluoromethane (Surr)	87		80 - 123
Toluene-d8 (Surr)	98		80 - 120

**Lab Sample ID: LCSD 590-43562/4**  
**Matrix: Water**  
**Analysis Batch: 43562**

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	10.0	10.5		ug/L		105	80 - 120	5	15
Ethylbenzene	10.0	11.0		ug/L		110	80 - 122	12	35
m,p-Xylene	10.0	10.5		ug/L		105	80 - 125	14	35
Naphthalene	10.0	11.3		ug/L		113	61 - 140	19	25
o-Xylene	10.0	10.1		ug/L		101	80 - 130	14	35
Toluene	10.0	11.1		ug/L		111	80 - 129	12	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	90		80 - 120
4-Bromofluorobenzene (Surr)	105		76 - 120

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# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Kwik Stop/0504-05-07

Job ID: 590-21723-1

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

**Lab Sample ID: LCSD 590-43562/4**  
**Matrix: Water**  
**Analysis Batch: 43562**

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

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	90		80 - 123
Toluene-d8 (Surr)	102		80 - 120

**Lab Sample ID: MB 590-43741/1-A**  
**Matrix: Solid**  
**Analysis Batch: 43751**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 43741**

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		0.020	0.010	mg/Kg		09/27/23 10:40	09/27/23 12:17	1
Ethylbenzene	ND		0.10	0.016	mg/Kg		09/27/23 10:40	09/27/23 12:17	1
m,p-Xylene	ND		0.40	0.029	mg/Kg		09/27/23 10:40	09/27/23 12:17	1
Naphthalene	ND		0.20	0.028	mg/Kg		09/27/23 10:40	09/27/23 12:17	1
o-Xylene	ND		0.20	0.023	mg/Kg		09/27/23 10:40	09/27/23 12:17	1
Toluene	ND		0.10	0.013	mg/Kg		09/27/23 10:40	09/27/23 12:17	1
Xylenes, Total	ND		0.60	0.052	mg/Kg		09/27/23 10:40	09/27/23 12:17	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	98		79 - 124	09/27/23 10:40	09/27/23 12:17	1
4-Bromofluorobenzene (Surr)	102		66 - 129	09/27/23 10:40	09/27/23 12:17	1
Dibromofluoromethane (Surr)	105		80 - 120	09/27/23 10:40	09/27/23 12:17	1
Toluene-d8 (Surr)	100		80 - 120	09/27/23 10:40	09/27/23 12:17	1

**Lab Sample ID: LCS 590-43741/2-A**  
**Matrix: Solid**  
**Analysis Batch: 43751**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 43741**

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Benzene	0.500	0.509		mg/Kg		102	80 - 128
Ethylbenzene	0.500	0.513		mg/Kg		103	80 - 127
m,p-Xylene	0.500	0.522		mg/Kg		104	80 - 131
Naphthalene	0.500	0.504		mg/Kg		101	57 - 131
o-Xylene	0.500	0.522		mg/Kg		104	78 - 128
Toluene	0.500	0.508		mg/Kg		102	79 - 130

Surrogate	LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	100		79 - 124
4-Bromofluorobenzene (Surr)	103		66 - 129
Dibromofluoromethane (Surr)	104		80 - 120
Toluene-d8 (Surr)	98		80 - 120

**Lab Sample ID: 590-21723-7 MS**  
**Matrix: Solid**  
**Analysis Batch: 43751**

**Client Sample ID: B-12 (17.5-19)**  
**Prep Type: Total/NA**  
**Prep Batch: 43741**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec Limits
				Result	Qualifier				
Benzene	ND		1.29	1.33		mg/Kg	☼	103	80 - 128
Ethylbenzene	ND		1.29	1.36		mg/Kg	☼	106	80 - 127
m,p-Xylene	ND		1.29	1.39		mg/Kg	☼	108	80 - 131

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# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Kwik Stop/0504-05-07

Job ID: 590-21723-1

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

**Lab Sample ID: 590-21723-7 MS**  
**Matrix: Solid**  
**Analysis Batch: 43751**

**Client Sample ID: B-12 (17.5-19)**  
**Prep Type: Total/NA**  
**Prep Batch: 43741**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier					
Naphthalene	ND		1.29	1.29		mg/Kg	⊛	100		57 - 131
o-Xylene	ND		1.29	1.39		mg/Kg	⊛	108		78 - 128
Toluene	ND		1.29	1.32		mg/Kg	⊛	103		79 - 130
<b>MS MS</b>										
Surrogate	%Recovery	Qualifier	Limits							
1,2-Dichloroethane-d4 (Surr)	95		79 - 124							
4-Bromofluorobenzene (Surr)	103		66 - 129							
Dibromofluoromethane (Surr)	103		80 - 120							
Toluene-d8 (Surr)	98		80 - 120							

**Lab Sample ID: 590-21723-7 MSD**  
**Matrix: Solid**  
**Analysis Batch: 43751**

**Client Sample ID: B-12 (17.5-19)**  
**Prep Type: Total/NA**  
**Prep Batch: 43741**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
Benzene	ND		1.29	1.31		mg/Kg	⊛	102		80 - 128	1	17
Ethylbenzene	ND		1.29	1.35		mg/Kg	⊛	105		80 - 127	1	19
m,p-Xylene	ND		1.29	1.37		mg/Kg	⊛	106		80 - 131	2	19
Naphthalene	ND		1.29	1.23		mg/Kg	⊛	96		57 - 131	4	34
o-Xylene	ND		1.29	1.39		mg/Kg	⊛	108		78 - 128	0	19
Toluene	ND		1.29	1.30		mg/Kg	⊛	101		79 - 130	2	21
<b>MSD MSD</b>												
Surrogate	%Recovery	Qualifier	Limits									
1,2-Dichloroethane-d4 (Surr)	98		79 - 124									
4-Bromofluorobenzene (Surr)	104		66 - 129									
Dibromofluoromethane (Surr)	102		80 - 120									
Toluene-d8 (Surr)	95		80 - 120									

**Lab Sample ID: 590-21723-2 DU**  
**Matrix: Solid**  
**Analysis Batch: 43751**

**Client Sample ID: B-12 (5-6.5)**  
**Prep Type: Total/NA**  
**Prep Batch: 43741**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Benzene	ND		ND		mg/Kg	⊛	NC	17
Ethylbenzene	ND		ND		mg/Kg	⊛	NC	19
m,p-Xylene	ND		ND		mg/Kg	⊛	NC	19
Naphthalene	0.19	J	0.122	J F5	mg/Kg	⊛	46	34
o-Xylene	ND		ND		mg/Kg	⊛	NC	19
Toluene	0.073	J	0.0739	J	mg/Kg	⊛	0.7	21
Xylenes, Total	ND		ND		mg/Kg	⊛	NC	25
<b>DU DU</b>								
Surrogate	%Recovery	Qualifier	Limits					
1,2-Dichloroethane-d4 (Surr)	100		79 - 124					
4-Bromofluorobenzene (Surr)	109		66 - 129					
Dibromofluoromethane (Surr)	104		80 - 120					
Toluene-d8 (Surr)	108		80 - 120					

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Kwik Stop/0504-05-07

Job ID: 590-21723-1

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

**Lab Sample ID: MB 590-43762/1-A**  
**Matrix: Solid**  
**Analysis Batch: 43765**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 43762**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		0.020	0.010	mg/Kg		09/27/23 15:18	09/28/23 00:33	1
Ethylbenzene	ND		0.10	0.016	mg/Kg		09/27/23 15:18	09/28/23 00:33	1
m,p-Xylene	ND		0.40	0.029	mg/Kg		09/27/23 15:18	09/28/23 00:33	1
Naphthalene	ND		0.20	0.028	mg/Kg		09/27/23 15:18	09/28/23 00:33	1
o-Xylene	ND		0.20	0.023	mg/Kg		09/27/23 15:18	09/28/23 00:33	1
Toluene	ND		0.10	0.013	mg/Kg		09/27/23 15:18	09/28/23 00:33	1
Xylenes, Total	ND		0.60	0.052	mg/Kg		09/27/23 15:18	09/28/23 00:33	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	97		79 - 124	09/27/23 15:18	09/28/23 00:33	1
4-Bromofluorobenzene (Surr)	98		66 - 129	09/27/23 15:18	09/28/23 00:33	1
Dibromofluoromethane (Surr)	105		80 - 120	09/27/23 15:18	09/28/23 00:33	1
Toluene-d8 (Surr)	99		80 - 120	09/27/23 15:18	09/28/23 00:33	1

**Lab Sample ID: LCS 590-43762/2-A**  
**Matrix: Solid**  
**Analysis Batch: 43765**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 43762**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	0.500	0.536		mg/Kg		107	80 - 127
m,p-Xylene	0.500	0.539		mg/Kg		108	80 - 131
Naphthalene	0.500	0.527		mg/Kg		105	57 - 131
o-Xylene	0.500	0.543		mg/Kg		109	78 - 128
Toluene	0.500	0.534		mg/Kg		107	79 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	98		79 - 124
4-Bromofluorobenzene (Surr)	100		66 - 129
Dibromofluoromethane (Surr)	103		80 - 120
Toluene-d8 (Surr)	98		80 - 120

**Lab Sample ID: MB 590-43783/1-A**  
**Matrix: Solid**  
**Analysis Batch: 43781**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 43783**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		0.020	0.010	mg/Kg		09/28/23 13:29	09/28/23 15:14	1
Ethylbenzene	ND		0.10	0.016	mg/Kg		09/28/23 13:29	09/28/23 15:14	1
m,p-Xylene	ND		0.40	0.029	mg/Kg		09/28/23 13:29	09/28/23 15:14	1
Naphthalene	ND		0.20	0.028	mg/Kg		09/28/23 13:29	09/28/23 15:14	1
o-Xylene	ND		0.20	0.023	mg/Kg		09/28/23 13:29	09/28/23 15:14	1
Toluene	ND		0.10	0.013	mg/Kg		09/28/23 13:29	09/28/23 15:14	1
Xylenes, Total	ND		0.60	0.052	mg/Kg		09/28/23 13:29	09/28/23 15:14	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	98		79 - 124	09/28/23 13:29	09/28/23 15:14	1

Eurofins Spokane

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Kwik Stop/0504-05-07

Job ID: 590-21723-1

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

**Lab Sample ID: MB 590-43783/1-A**  
**Matrix: Solid**  
**Analysis Batch: 43781**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 43783**

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	105		66 - 129	09/28/23 13:29	09/28/23 15:14	1
Dibromofluoromethane (Surr)	104		80 - 120	09/28/23 13:29	09/28/23 15:14	1
Toluene-d8 (Surr)	100		80 - 120	09/28/23 13:29	09/28/23 15:14	1

**Lab Sample ID: LCS 590-43783/2-A**  
**Matrix: Solid**  
**Analysis Batch: 43781**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 43783**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	0.500	0.525		mg/Kg		105	80 - 127
m,p-Xylene	0.500	0.528		mg/Kg		106	80 - 131
Naphthalene	0.500	0.454		mg/Kg		91	57 - 131
o-Xylene	0.500	0.531		mg/Kg		106	78 - 128
Toluene	0.500	0.517		mg/Kg		103	79 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	98		79 - 124
4-Bromofluorobenzene (Surr)	99		66 - 129
Dibromofluoromethane (Surr)	103		80 - 120
Toluene-d8 (Surr)	98		80 - 120

**Lab Sample ID: LCSD 590-43783/3-A**  
**Matrix: Solid**  
**Analysis Batch: 43781**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 43783**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Benzene	0.500	0.485		mg/Kg		97	80 - 128	5	17
Ethylbenzene	0.500	0.494		mg/Kg		99	80 - 127	6	19
m,p-Xylene	0.500	0.500		mg/Kg		100	80 - 131	5	19
Naphthalene	0.500	0.452		mg/Kg		90	57 - 131	0	34
o-Xylene	0.500	0.512		mg/Kg		102	78 - 128	4	19
Toluene	0.500	0.482		mg/Kg		96	79 - 130	7	21

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	98		79 - 124
4-Bromofluorobenzene (Surr)	98		66 - 129
Dibromofluoromethane (Surr)	103		80 - 120
Toluene-d8 (Surr)	96		80 - 120

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

**Lab Sample ID: MB 590-43561/6**  
**Matrix: Water**  
**Analysis Batch: 43561**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline	45.5	J	150	31	ug/L			09/19/23 17:36	1

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# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Kwik Stop/0504-05-07

Job ID: 590-21723-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS) (Continued)

**Lab Sample ID: MB 590-43561/6**  
**Matrix: Water**  
**Analysis Batch: 43561**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
4-Bromofluorobenzene (Surr)	107	MB MB	68.7 - 141		09/19/23 17:36	1

**Lab Sample ID: LCS 590-43561/1005**  
**Matrix: Water**  
**Analysis Batch: 43561**

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

<u>Analyte</u>	<u>Spike Added</u>	<u>LCS Result</u>	<u>LCS Qualifier</u>	<u>Unit</u>	<u>D</u>	<u>%Rec</u>	<u>%Rec Limits</u>
Gasoline	1000	1090		ug/L		109	80 - 120

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
4-Bromofluorobenzene (Surr)	103	LCS LCS	68.7 - 141

**Lab Sample ID: LCSD 590-43561/1016**  
**Matrix: Water**  
**Analysis Batch: 43561**

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

<u>Analyte</u>	<u>Spike Added</u>	<u>LCSD Result</u>	<u>LCSD Qualifier</u>	<u>Unit</u>	<u>D</u>	<u>%Rec</u>	<u>%Rec Limits</u>	<u>RPD</u>	<u>Limit</u>
Gasoline	1000	1050		ug/L		105	80 - 120	4	20

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
4-Bromofluorobenzene (Surr)	108	LCSD LCSD	68.7 - 141

**Lab Sample ID: MB 590-43696/7**  
**Matrix: Water**  
**Analysis Batch: 43696**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>RL</u>	<u>MDL</u>	<u>Unit</u>	<u>D</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
Gasoline	ND		150	31	ug/L			09/25/23 22:35	1

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
4-Bromofluorobenzene (Surr)	104	MB MB	68.7 - 141		09/25/23 22:35	1

**Lab Sample ID: LCS 590-43696/1006**  
**Matrix: Water**  
**Analysis Batch: 43696**

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

<u>Analyte</u>	<u>Spike Added</u>	<u>LCS Result</u>	<u>LCS Qualifier</u>	<u>Unit</u>	<u>D</u>	<u>%Rec</u>	<u>%Rec Limits</u>
Gasoline	1000	810		ug/L		81	80 - 120

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
4-Bromofluorobenzene (Surr)	104	LCS LCS	68.7 - 141



# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Kwik Stop/0504-05-07

Job ID: 590-21723-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS) (Continued)

**Lab Sample ID: LCSD 590-43696/1015**  
**Matrix: Water**  
**Analysis Batch: 43696**

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline	1000	867		ug/L		87	80 - 120	7	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	98		68.7 - 141						

**Lab Sample ID: MB 590-43741/1-A**  
**Matrix: Solid**  
**Analysis Batch: 43750**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 43741**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		5.0	1.8	mg/Kg		09/27/23 10:40	09/27/23 12:17	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	102		41.5 - 162						
							Prepared	Analyzed	Dil Fac
							09/27/23 10:40	09/27/23 12:17	1

**Lab Sample ID: LCS 590-43741/3-A**  
**Matrix: Solid**  
**Analysis Batch: 43750**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 43741**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline	50.0	47.5		mg/Kg		95	74.4 - 124		
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	101		41.5 - 162						

**Lab Sample ID: 590-21723-2 DU**  
**Matrix: Solid**  
**Analysis Batch: 43750**

**Client Sample ID: B-12 (5-6.5)**  
**Prep Type: Total/NA**  
**Prep Batch: 43741**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit	
Gasoline	400		371		mg/Kg	✱	7	32.3	
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	109		41.5 - 162						

**Lab Sample ID: MB 590-43762/1-A**  
**Matrix: Solid**  
**Analysis Batch: 43764**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 43762**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		5.0	1.8	mg/Kg		09/27/23 15:18	09/28/23 00:33	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	98		41.5 - 162						
							Prepared	Analyzed	Dil Fac
							09/27/23 15:18	09/28/23 00:33	1

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# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Kwik Stop/0504-05-07

Job ID: 590-21723-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS) (Continued)

Lab Sample ID: LCS 590-43762/3-A  
Matrix: Solid  
Analysis Batch: 43764

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 43762

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline	50.0	45.7		mg/Kg		91	74.4 - 124
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
4-Bromofluorobenzene (Surr)	99		41.5 - 162				

## Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 280-627040/5  
Matrix: Water  
Analysis Batch: 627040

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		5.0	0.63	ug/L			09/21/23 21:03	1

Lab Sample ID: LCS 280-627040/3  
Matrix: Water  
Analysis Batch: 627040

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methane	65.7	69.8		ug/L		106	75 - 125

Lab Sample ID: LCSD 280-627040/4  
Matrix: Water  
Analysis Batch: 627040

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methane	65.7	70.7		ug/L		108	75 - 125	1	20

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 590-43549/1003  
Matrix: Water  
Analysis Batch: 43549

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.20	0.057	mg/L			09/19/23 12:31	1

Lab Sample ID: LCS 590-43549/1004  
Matrix: Water  
Analysis Batch: 43549

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	5.00	5.10		mg/L		102	90 - 110

Lab Sample ID: MB 590-43550/1003  
Matrix: Water  
Analysis Batch: 43550

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		0.50	0.13	mg/L			09/19/23 12:31	1

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# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Kwik Stop/0504-05-07

Job ID: 590-21723-1

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 590-43550/1004  
Matrix: Water  
Analysis Batch: 43550

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	12.5	12.7		mg/L		101	90 - 110

## Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 580-438669/26-A  
Matrix: Water  
Analysis Batch: 438895

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 438669

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.10	0.013	mg/L		09/25/23 16:28	09/27/23 02:17	1
Manganese	ND		0.0020	0.00046	mg/L		09/25/23 16:28	09/27/23 02:17	1

Lab Sample ID: LCS 580-438669/27-A  
Matrix: Water  
Analysis Batch: 438895

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 438669

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	20.0	18.4		mg/L		92	85 - 115
Manganese	1.00	0.910		mg/L		91	85 - 115

Lab Sample ID: LCSD 580-438669/28-A  
Matrix: Water  
Analysis Batch: 438895

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 438669

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Iron	20.0	18.0		mg/L		90	85 - 115	2	20
Manganese	1.00	0.903		mg/L		90	85 - 115	1	20

Lab Sample ID: MB 580-438128/1-B  
Matrix: Water  
Analysis Batch: 438541

Client Sample ID: Method Blank  
Prep Type: Dissolved  
Prep Batch: 438340

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.10	0.013	mg/L		09/21/23 17:58	09/22/23 14:37	1
Manganese	ND		0.0020	0.00046	mg/L		09/21/23 17:58	09/22/23 14:37	1

Lab Sample ID: LCS 580-438128/2-B  
Matrix: Water  
Analysis Batch: 438541

Client Sample ID: Lab Control Sample  
Prep Type: Dissolved  
Prep Batch: 438340

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	20.0	21.3		mg/L		107	85 - 115
Manganese	1.00	1.04		mg/L		104	85 - 115

Lab Sample ID: LCSD 580-438128/3-B  
Matrix: Water  
Analysis Batch: 438541

Client Sample ID: Lab Control Sample Dup  
Prep Type: Dissolved  
Prep Batch: 438340

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Iron	20.0	21.5		mg/L		107	85 - 115	1	20

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# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Kwik Stop/0504-05-07

Job ID: 590-21723-1

## Method: 200.8 - Metals (ICP/MS) (Continued)

**Lab Sample ID: LCSD 580-438128/3-B**  
**Matrix: Water**  
**Analysis Batch: 438541**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Dissolved**  
**Prep Batch: 438340**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Manganese	1.00	1.04		mg/L		104	85 - 115	0	20

**Lab Sample ID: 590-21723-29 MS**  
**Matrix: Water**  
**Analysis Batch: 438541**

**Client Sample ID: MW-18:091523**  
**Prep Type: Dissolved**  
**Prep Batch: 438340**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	0.049	J	20.0	22.2		mg/L		111	70 - 130
Manganese	ND		1.00	1.10		mg/L		110	70 - 130

**Lab Sample ID: 590-21723-29 MSD**  
**Matrix: Water**  
**Analysis Batch: 438541**

**Client Sample ID: MW-18:091523**  
**Prep Type: Dissolved**  
**Prep Batch: 438340**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	0.049	J	20.0	22.5		mg/L		112	70 - 130	1	20
Manganese	ND		1.00	1.10		mg/L		110	70 - 130	0	20

**Lab Sample ID: 590-21723-29 DU**  
**Matrix: Water**  
**Analysis Batch: 438541**

**Client Sample ID: MW-18:091523**  
**Prep Type: Dissolved**  
**Prep Batch: 438340**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Iron	0.049	J	0.0467	J	mg/L		4	20
Manganese	ND		ND		mg/L		NC	20

## Method: 6010D - Metals (ICP)

**Lab Sample ID: MB 590-43745/2-A**  
**Matrix: Solid**  
**Analysis Batch: 43775**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 43745**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		100	30	mg/Kg		09/27/23 10:57	09/27/23 19:20	1
Iron	ND		100	43	mg/Kg		09/27/23 10:57	09/27/23 19:20	1
Magnesium	ND		50	8.9	mg/Kg		09/27/23 10:57	09/27/23 19:20	1
Manganese	ND		15	1.0	mg/Kg		09/27/23 10:57	09/27/23 19:20	1
Potassium	ND		25	13	mg/Kg		09/27/23 10:57	09/27/23 19:20	1

**Lab Sample ID: LCS 590-43745/1-A**  
**Matrix: Solid**  
**Analysis Batch: 43775**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 43745**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	2500	2610		mg/Kg		104	80 - 120
Iron	500	488		mg/Kg		98	80 - 120
Magnesium	2500	2450		mg/Kg		98	80 - 120
Manganese	50.0	49.8		mg/Kg		100	80 - 120
Potassium	2500	2610		mg/Kg		104	80 - 120

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# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Kwik Stop/0504-05-07

Job ID: 590-21723-1

## Method: 6010D - Metals (ICP) (Continued)

**Lab Sample ID: MB 590-43818/2-A**  
**Matrix: Solid**  
**Analysis Batch: 43833**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 43818**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Calcium	ND		100	30	mg/Kg		09/29/23 14:01	09/29/23 15:35	1
Iron	ND		100	43	mg/Kg		09/29/23 14:01	09/29/23 15:35	1
Magnesium	ND		50	8.9	mg/Kg		09/29/23 14:01	09/29/23 15:35	1
Manganese	ND		15	1.0	mg/Kg		09/29/23 14:01	09/29/23 15:35	1
Sodium	ND		25	10	mg/Kg		09/29/23 14:01	09/29/23 15:35	1

**Lab Sample ID: MB 590-43818/2-A**  
**Matrix: Solid**  
**Analysis Batch: 43898**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 43818**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Potassium	ND		25	13	mg/Kg		09/29/23 14:01	10/03/23 18:40	1

**Lab Sample ID: LCS 590-43818/1-A**  
**Matrix: Solid**  
**Analysis Batch: 43833**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 43818**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	500	504		mg/Kg		101	80 - 120
Magnesium	2500	2480		mg/Kg		99	80 - 120
Manganese	50.0	50.8		mg/Kg		102	80 - 120
Sodium	2500	2590		mg/Kg		104	80 - 120

**Lab Sample ID: LCS 590-43818/1-A**  
**Matrix: Solid**  
**Analysis Batch: 43898**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 43818**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits

## Method: 9060A - Organic Carbon, Total (TOC)

**Lab Sample ID: MB 580-440030/5**  
**Matrix: Solid**  
**Analysis Batch: 440030**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Organic Carbon - Average Dup	ND		2000	97	mg/Kg			10/05/23 21:44	1

**Lab Sample ID: LCS 580-440030/6**  
**Matrix: Solid**  
**Analysis Batch: 440030**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Kwik Stop/0504-05-07

Job ID: 590-21723-1

## Method: 9060A - Organic Carbon, Total (TOC) (Continued)

**Lab Sample ID: LCSD 580-440030/7**  
**Matrix: Solid**  
**Analysis Batch: 440030**

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon - Average Dup	120000	120000		mg/Kg		100	80 - 120	0	20

**Lab Sample ID: 590-21723-2 MS**  
**Matrix: Solid**  
**Analysis Batch: 440030**

**Client Sample ID: B-12 (5-6.5)**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Average Dup	1500	J	120000	117000		mg/Kg		97	75 - 125

**Lab Sample ID: 590-21723-2 MSD**  
**Matrix: Solid**  
**Analysis Batch: 440030**

**Client Sample ID: B-12 (5-6.5)**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon - Average Dup	1500	J	120000	119000		mg/Kg		98	75 - 125	1	20

**Lab Sample ID: 590-21723-2 DU**  
**Matrix: Solid**  
**Analysis Batch: 440030**

**Client Sample ID: B-12 (5-6.5)**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	DU Result	DU Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon - Average Dup	1500	J	120000	1630	J	mg/Kg				10	20

## Method: SM 2320B - Alkalinity

**Lab Sample ID: MB 590-43814/1**  
**Matrix: Water**  
**Analysis Batch: 43814**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	5.00	J	20	5.0	mg/L			09/28/23 15:05	1

**Lab Sample ID: LCS 590-43814/2**  
**Matrix: Water**  
**Analysis Batch: 43814**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	501	495		mg/L		99	90 - 110

## Method: SM 5310C - TOC

**Lab Sample ID: MB 580-439425/3**  
**Matrix: Water**  
**Analysis Batch: 439425**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.5	0.38	mg/L			09/29/23 14:18	1

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# QC Sample Results

Client: GeoEngineers Inc  
 Project/Site: Kwik Stop/0504-05-07

Job ID: 590-21723-1

## Method: SM 5310C - TOC (Continued)

**Lab Sample ID: LCS 580-439425/4**  
**Matrix: Water**  
**Analysis Batch: 439425**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	10.0	9.27		mg/L		93	85 - 115

**Lab Sample ID: LCSD 580-439425/5**  
**Matrix: Water**  
**Analysis Batch: 439425**

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon	10.0	9.45		mg/L		95	85 - 115	2	20



# Lab Chronicle

Client: GeoEngineers Inc  
 Project/Site: Kwik Stop/0504-05-07

Job ID: 590-21723-1

**Client Sample ID: B-12 (5-6.5)**  
 Date Collected: 09/14/23 10:35  
 Date Received: 09/18/23 09:23

**Lab Sample ID: 590-21723-2**  
 Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9060A		1			440030	10/05/23 21:52	AUA	EET SEA
Total/NA	Analysis	Moisture		1			43555	09/19/23 14:38	MRV	EET SPK

**Client Sample ID: B-12 (5-6.5)**  
 Date Collected: 09/14/23 10:35  
 Date Received: 09/18/23 09:23

**Lab Sample ID: 590-21723-2**  
 Matrix: Solid  
 Percent Solids: 81.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.529 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	43751	09/27/23 14:05	JSP	EET SPK
Total/NA	Prep	5035			6.529 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	43750	09/27/23 14:05	JSP	EET SPK
Total/NA	Prep	3050B			1.52 g	50 mL	43818	09/29/23 14:01	AMB	EET SPK
Total/NA	Analysis	6010D		5			43833	09/29/23 16:04	AMB	EET SPK
Total/NA	Prep	3050B			1.52 g	50 mL	43818	09/29/23 14:01	AMB	EET SPK
Total/NA	Analysis	6010D		5			43898	10/03/23 19:21	AMB	EET SPK

**Client Sample ID: B-12 (17.5-19)**  
 Date Collected: 09/14/23 11:10  
 Date Received: 09/18/23 09:23

**Lab Sample ID: 590-21723-7**  
 Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			43555	09/19/23 14:38	MRV	EET SPK

**Client Sample ID: B-12 (17.5-19)**  
 Date Collected: 09/14/23 11:10  
 Date Received: 09/18/23 09:23

**Lab Sample ID: 590-21723-7**  
 Matrix: Solid  
 Percent Solids: 93.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.29 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	43751	09/27/23 14:48	JSP	EET SPK
Total/NA	Prep	5035			4.29 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	43750	09/27/23 14:48	JSP	EET SPK

**Client Sample ID: B-12 (37.5-39)**  
 Date Collected: 09/14/23 12:30  
 Date Received: 09/18/23 09:23

**Lab Sample ID: 590-21723-15**  
 Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			43555	09/19/23 14:38	MRV	EET SPK



# Lab Chronicle

Client: GeoEngineers Inc  
Project/Site: Kwik Stop/0504-05-07

Job ID: 590-21723-1

## Client Sample ID: B-12 (37.5-39)

## Lab Sample ID: 590-21723-15

Date Collected: 09/14/23 12:30

Matrix: Solid

Date Received: 09/18/23 09:23

Percent Solids: 87.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.936 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	43751	09/27/23 16:14	JSP	EET SPK
Total/NA	Prep	5035			5.936 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	43750	09/27/23 16:14	JSP	EET SPK

## Client Sample ID: B-12 (40-41.5)

## Lab Sample ID: 590-21723-16

Date Collected: 09/14/23 12:40

Matrix: Solid

Date Received: 09/18/23 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			43555	09/19/23 14:38	MRV	EET SPK

## Client Sample ID: B-12 (40-41.5)

## Lab Sample ID: 590-21723-16

Date Collected: 09/14/23 12:40

Matrix: Solid

Date Received: 09/18/23 09:23

Percent Solids: 79.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.417 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	43751	09/27/23 16:35	JSP	EET SPK
Total/NA	Prep	5035			5.417 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	43750	09/27/23 16:35	JSP	EET SPK

## Client Sample ID: B-9 (12.5-14)

## Lab Sample ID: 590-21723-19

Date Collected: 09/13/23 14:40

Matrix: Solid

Date Received: 09/18/23 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			43555	09/19/23 14:38	MRV	EET SPK

## Client Sample ID: B-9 (12.5-14)

## Lab Sample ID: 590-21723-19

Date Collected: 09/13/23 14:40

Matrix: Solid

Date Received: 09/18/23 09:23

Percent Solids: 94.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.447 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	43751	09/27/23 16:57	JSP	EET SPK
Total/NA	Prep	5035			4.447 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	43750	09/27/23 16:57	JSP	EET SPK

## Client Sample ID: B-9 (27.5-29)

## Lab Sample ID: 590-21723-23

Date Collected: 09/13/23 15:00

Matrix: Solid

Date Received: 09/18/23 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			43555	09/19/23 14:38	MRV	EET SPK

Eurofins Spokane

# Lab Chronicle

Client: GeoEngineers Inc  
 Project/Site: Kwik Stop/0504-05-07

Job ID: 590-21723-1

## Client Sample ID: B-9 (27.5-29)

## Lab Sample ID: 590-21723-23

Date Collected: 09/13/23 15:00

Matrix: Solid

Date Received: 09/18/23 09:23

Percent Solids: 94.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.873 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	43751	09/27/23 17:18	JSP	EET SPK
Total/NA	Prep	5035			4.873 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	43750	09/27/23 17:18	JSP	EET SPK

## Client Sample ID: MW-3:091523

## Lab Sample ID: 590-21723-24

Date Collected: 09/15/23 08:55

Matrix: Water

Date Received: 09/18/23 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	43562	09/19/23 23:52	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	43561	09/19/23 23:52	JSP	EET SPK
Total/NA	Analysis	RSK-175		1	20 mL	20 mL	627040	09/22/23 00:50	SJD	EET DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	43549	09/19/23 15:40	NMI	EET SPK
Total/NA	Analysis	300.0		1	5 mL	5 mL	43550	09/19/23 15:40	NMI	EET SPK
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	438128	09/20/23 15:59	AUA	EET SEA
Dissolved	Prep	200.8			50 mL	50 mL	438340	09/21/23 17:58	JLS	EET SEA
Dissolved	Analysis	200.8		1	50 mL	50 mL	438541	09/22/23 14:05	FCW	EET SEA
Total/NA	Prep	200.8			50 mL	50 mL	438669	09/25/23 16:28	TMH	EET SEA
Total/NA	Analysis	200.8		1	50 mL	50 mL	438895	09/27/23 03:56	FCW	EET SEA
Total/NA	Analysis	SM 2320B		1	100 mL	100 mL	43814	09/28/23 15:05	AMB	EET SPK
Total/NA	Analysis	SM 5310C		1			439425	09/29/23 18:48	AUA	EET SEA

## Client Sample ID: MW-9:091523

## Lab Sample ID: 590-21723-25

Date Collected: 09/15/23 10:02

Matrix: Water

Date Received: 09/18/23 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	43562	09/20/23 00:14	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	43561	09/20/23 00:14	JSP	EET SPK
Total/NA	Analysis	RSK-175		1	20 mL	20 mL	627040	09/22/23 01:03	SJD	EET DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	43549	09/19/23 15:50	NMI	EET SPK
Total/NA	Analysis	300.0		1	5 mL	5 mL	43550	09/19/23 15:50	NMI	EET SPK
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	438128	09/20/23 16:00	AUA	EET SEA
Dissolved	Prep	200.8			50 mL	50 mL	438340	09/21/23 17:58	JLS	EET SEA
Dissolved	Analysis	200.8		1	50 mL	50 mL	438541	09/22/23 14:02	FCW	EET SEA
Total/NA	Prep	200.8			50 mL	50 mL	438669	09/25/23 16:28	TMH	EET SEA
Total/NA	Analysis	200.8		1	50 mL	50 mL	438895	09/27/23 03:59	FCW	EET SEA
Total/NA	Analysis	SM 2320B		1	100 mL	100 mL	43814	09/28/23 15:05	AMB	EET SPK
Total/NA	Analysis	SM 5310C		1			439425	09/29/23 19:05	AUA	EET SEA

# Lab Chronicle

Client: GeoEngineers Inc  
Project/Site: Kwik Stop/0504-05-07

Job ID: 590-21723-1

**Client Sample ID: MW-10:091523**

**Lab Sample ID: 590-21723-26**

Date Collected: 09/15/23 12:23

Matrix: Water

Date Received: 09/18/23 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	43562	09/20/23 00:36	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	43561	09/20/23 00:36	JSP	EET SPK

**Client Sample ID: MW-11:091523**

**Lab Sample ID: 590-21723-27**

Date Collected: 09/15/23 11:39

Matrix: Water

Date Received: 09/18/23 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	43562	09/20/23 00:58	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	43561	09/20/23 00:58	JSP	EET SPK

**Client Sample ID: MW-15:091523**

**Lab Sample ID: 590-21723-28**

Date Collected: 09/15/23 13:15

Matrix: Water

Date Received: 09/18/23 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	43562	09/20/23 01:42	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	43696	09/26/23 00:00	JSP	EET SPK

**Client Sample ID: MW-18:091523**

**Lab Sample ID: 590-21723-29**

Date Collected: 09/15/23 10:57

Matrix: Water

Date Received: 09/18/23 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	43562	09/20/23 02:04	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	43696	09/26/23 00:21	JSP	EET SPK
Total/NA	Analysis	RSK-175		1	20 mL	20 mL	627040	09/22/23 01:16	SJD	EET DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	43549	09/19/23 16:01	NMI	EET SPK
Total/NA	Analysis	300.0		1	5 mL	5 mL	43550	09/19/23 16:01	NMI	EET SPK
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	438128	09/20/23 16:00	AUA	EET SEA
Dissolved	Prep	200.8			50 mL	50 mL	438340	09/21/23 17:58	JLS	EET SEA
Dissolved	Analysis	200.8		1	50 mL	50 mL	438541	09/22/23 14:40	FCW	EET SEA
Total/NA	Prep	200.8			50 mL	50 mL	438669	09/25/23 16:28	TMH	EET SEA
Total/NA	Analysis	200.8		1	50 mL	50 mL	438895	09/27/23 02:20	FCW	EET SEA
Total/NA	Analysis	SM 2320B		1	100 mL	100 mL	43814	09/28/23 15:05	AMB	EET SPK
Total/NA	Analysis	SM 5310C		1			439425	09/29/23 19:23	AUA	EET SEA

**Client Sample ID: B-11 (5-6.5)**

**Lab Sample ID: 590-21723-31**

Date Collected: 09/14/23 13:45

Matrix: Solid

Date Received: 09/18/23 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9060A		1			440030	10/05/23 22:05	AUA	EET SEA
Total/NA	Analysis	Moisture		1			43555	09/19/23 14:38	MRV	EET SPK

Eurofins Spokane

# Lab Chronicle

Client: GeoEngineers Inc  
Project/Site: Kwik Stop/0504-05-07

Job ID: 590-21723-1

**Client Sample ID: B-11 (5-6.5)**

**Lab Sample ID: 590-21723-31**

Date Collected: 09/14/23 13:45

Matrix: Solid

Date Received: 09/18/23 09:23

Percent Solids: 82.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.625 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	43751	09/27/23 17:40	JSP	EET SPK
Total/NA	Prep	5035			6.625 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	8260D		10	0.86 mL	43 mL	43781	09/28/23 14:30	JSP	EET SPK
Total/NA	Prep	5035			6.625 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		10	0.86 mL	43 mL	43780	09/28/23 14:30	JSP	EET SPK
Total/NA	Prep	5035			6.625 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		100	0.86 mL	43 mL	43780	09/28/23 14:52	JSP	EET SPK
Total/NA	Prep	3050B			1.42 g	50 mL	43818	09/29/23 14:01	AMB	EET SPK
Total/NA	Analysis	6010D		5			43833	09/29/23 16:08	AMB	EET SPK
Total/NA	Prep	3050B			1.42 g	50 mL	43818	09/29/23 14:01	AMB	EET SPK
Total/NA	Analysis	6010D		5			43898	10/03/23 19:25	AMB	EET SPK

**Client Sample ID: B-11 (20-21.5)**

**Lab Sample ID: 590-21723-37**

Date Collected: 09/14/23 14:15

Matrix: Solid

Date Received: 09/18/23 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			43555	09/19/23 14:38	MRV	EET SPK

**Client Sample ID: B-11 (20-21.5)**

**Lab Sample ID: 590-21723-37**

Date Collected: 09/14/23 14:15

Matrix: Solid

Date Received: 09/18/23 09:23

Percent Solids: 94.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.345 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	43751	09/27/23 18:02	JSP	EET SPK
Total/NA	Prep	5035			4.345 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	43750	09/27/23 18:02	JSP	EET SPK

**Client Sample ID: B-11 (32.5-34)**

**Lab Sample ID: 590-21723-42**

Date Collected: 09/14/23 15:00

Matrix: Solid

Date Received: 09/18/23 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			43555	09/19/23 14:38	MRV	EET SPK

**Client Sample ID: B-11 (32.5-34)**

**Lab Sample ID: 590-21723-42**

Date Collected: 09/14/23 15:00

Matrix: Solid

Date Received: 09/18/23 09:23

Percent Solids: 93.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.372 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	43751	09/27/23 18:24	JSP	EET SPK
Total/NA	Prep	5035			5.372 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	43750	09/27/23 18:24	JSP	EET SPK

Eurofins Spokane

# Lab Chronicle

Client: GeoEngineers Inc  
Project/Site: Kwik Stop/0504-05-07

Job ID: 590-21723-1

**Client Sample ID: B-11 (40-41.5)**

**Lab Sample ID: 590-21723-45**

Date Collected: 09/14/23 15:35

Matrix: Solid

Date Received: 09/18/23 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			43555	09/19/23 14:38	MRV	EET SPK

**Client Sample ID: B-11 (40-41.5)**

**Lab Sample ID: 590-21723-45**

Date Collected: 09/14/23 15:35

Matrix: Solid

Date Received: 09/18/23 09:23

Percent Solids: 80.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.127 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	43751	09/27/23 18:46	JSP	EET SPK
Total/NA	Prep	5035			6.127 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	43750	09/27/23 18:46	JSP	EET SPK

**Client Sample ID: B-10 (10-11.5)**

**Lab Sample ID: 590-21723-47**

Date Collected: 09/14/23 08:26

Matrix: Solid

Date Received: 09/18/23 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			43555	09/19/23 14:38	MRV	EET SPK

**Client Sample ID: B-10 (10-11.5)**

**Lab Sample ID: 590-21723-47**

Date Collected: 09/14/23 08:26

Matrix: Solid

Date Received: 09/18/23 09:23

Percent Solids: 89.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.175 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	43751	09/27/23 19:08	JSP	EET SPK
Total/NA	Prep	5035			4.175 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	43750	09/27/23 19:08	JSP	EET SPK

**Client Sample ID: B-10 (25-26.5)**

**Lab Sample ID: 590-21723-51**

Date Collected: 09/14/23 08:44

Matrix: Solid

Date Received: 09/18/23 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			43555	09/19/23 14:38	MRV	EET SPK

**Client Sample ID: B-10 (25-26.5)**

**Lab Sample ID: 590-21723-51**

Date Collected: 09/14/23 08:44

Matrix: Solid

Date Received: 09/18/23 09:23

Percent Solids: 93.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.344 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	43751	09/27/23 19:51	JSP	EET SPK
Total/NA	Prep	5035			4.344 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	43750	09/27/23 19:51	JSP	EET SPK

Eurofins Spokane

# Lab Chronicle

Client: GeoEngineers Inc  
Project/Site: Kwik Stop/0504-05-07

Job ID: 590-21723-1

**Client Sample ID: B-10 (32.5-34)**

**Lab Sample ID: 590-21723-54**

Date Collected: 09/14/23 09:00

Matrix: Solid

Date Received: 09/18/23 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			43555	09/19/23 14:38	MRV	EET SPK

**Client Sample ID: B-10 (32.5-34)**

**Lab Sample ID: 590-21723-54**

Date Collected: 09/14/23 09:00

Matrix: Solid

Date Received: 09/18/23 09:23

Percent Solids: 94.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			+5.90 g	5 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	43751	09/27/23 20:13	JSP	EET SPK
Total/NA	Prep	5035			+5.90 g	5 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	43750	09/27/23 20:13	JSP	EET SPK

**Client Sample ID: B-10 (40-41.5)**

**Lab Sample ID: 590-21723-56**

Date Collected: 09/14/23 09:25

Matrix: Solid

Date Received: 09/18/23 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			43555	09/19/23 14:38	MRV	EET SPK

**Client Sample ID: B-10 (40-41.5)**

**Lab Sample ID: 590-21723-56**

Date Collected: 09/14/23 09:25

Matrix: Solid

Date Received: 09/18/23 09:23

Percent Solids: 83.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.813 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	43751	09/27/23 20:35	JSP	EET SPK
Total/NA	Prep	5035			7.813 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	43750	09/27/23 20:35	JSP	EET SPK

**Client Sample ID: B-8 (12.5-14)**

**Lab Sample ID: 590-21723-62**

Date Collected: 09/13/23 12:40

Matrix: Solid

Date Received: 09/18/23 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			43555	09/19/23 14:38	MRV	EET SPK

**Client Sample ID: B-8 (12.5-14)**

**Lab Sample ID: 590-21723-62**

Date Collected: 09/13/23 12:40

Matrix: Solid

Date Received: 09/18/23 09:23

Percent Solids: 93.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.321 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	43751	09/27/23 20:57	JSP	EET SPK
Total/NA	Prep	5035			4.321 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	43750	09/27/23 20:57	JSP	EET SPK

Eurofins Spokane

# Lab Chronicle

Client: GeoEngineers Inc  
Project/Site: Kwik Stop/0504-05-07

Job ID: 590-21723-1

**Client Sample ID: B-8 (25-26.5)**

Date Collected: 09/13/23 13:20

Date Received: 09/18/23 09:23

**Lab Sample ID: 590-21723-67**

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			43555	09/19/23 14:38	MRV	EET SPK

**Client Sample ID: B-8 (25-26.5)**

Date Collected: 09/13/23 13:20

Date Received: 09/18/23 09:23

**Lab Sample ID: 590-21723-67**

Matrix: Solid

Percent Solids: 96.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.384 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	43751	09/27/23 21:18	JSP	EET SPK
Total/NA	Prep	5035			4.384 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	43750	09/27/23 21:18	JSP	EET SPK

**Client Sample ID: B-8 (37.5-39)**

Date Collected: 09/13/23 13:45

Date Received: 09/18/23 09:23

**Lab Sample ID: 590-21723-72**

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			43555	09/19/23 14:38	MRV	EET SPK

**Client Sample ID: B-8 (37.5-39)**

Date Collected: 09/13/23 13:45

Date Received: 09/18/23 09:23

**Lab Sample ID: 590-21723-72**

Matrix: Solid

Percent Solids: 87.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.763 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	43751	09/27/23 21:40	JSP	EET SPK
Total/NA	Prep	5035			5.763 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	43750	09/27/23 21:40	JSP	EET SPK

**Client Sample ID: B-8 (40-41.5)**

Date Collected: 09/13/23 14:00

Date Received: 09/18/23 09:23

**Lab Sample ID: 590-21723-73**

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9060A		1			440030	10/05/23 22:10	AUA	EET SEA
Total/NA	Analysis	Moisture		1			43555	09/19/23 14:38	MRV	EET SPK

**Client Sample ID: B-8 (40-41.5)**

Date Collected: 09/13/23 14:00

Date Received: 09/18/23 09:23

**Lab Sample ID: 590-21723-73**

Matrix: Solid

Percent Solids: 87.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.497 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	43751	09/27/23 22:02	JSP	EET SPK
Total/NA	Prep	5035			7.497 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	43750	09/27/23 22:02	JSP	EET SPK

Eurofins Spokane

# Lab Chronicle

Client: GeoEngineers Inc  
 Project/Site: Kwik Stop/0504-05-07

Job ID: 590-21723-1

## Client Sample ID: B-8 (40-41.5)

## Lab Sample ID: 590-21723-73

Date Collected: 09/13/23 14:00

Matrix: Solid

Date Received: 09/18/23 09:23

Percent Solids: 87.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.41 g	50 mL	43745	09/27/23 10:57	AMB	EET SPK
Total/NA	Analysis	6010D		5			43775	09/27/23 21:15	AMB	EET SPK

## Client Sample ID: B-9 (37.5-39)

## Lab Sample ID: 590-21723-74

Date Collected: 09/13/23 15:20

Matrix: Solid

Date Received: 09/18/23 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			43555	09/19/23 14:38	MRV	EET SPK

## Client Sample ID: B-9 (37.5-39)

## Lab Sample ID: 590-21723-74

Date Collected: 09/13/23 15:20

Matrix: Solid

Date Received: 09/18/23 09:23

Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.454 g	10 mL	43762	09/27/23 15:18	JSP	EET SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	43765	09/28/23 01:38	JSP	EET SPK
Total/NA	Prep	5035			5.454 g	10 mL	43762	09/27/23 15:18	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	43764	09/28/23 01:38	JSP	EET SPK

## Client Sample ID: B-9 (40-41.5)

## Lab Sample ID: 590-21723-75

Date Collected: 09/13/23 15:50

Matrix: Solid

Date Received: 09/18/23 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9060A		1			440030	10/05/23 22:14	AUA	EET SEA
Total/NA	Analysis	Moisture		1			43555	09/19/23 14:38	MRV	EET SPK

## Client Sample ID: B-9 (40-41.5)

## Lab Sample ID: 590-21723-75

Date Collected: 09/13/23 15:50

Matrix: Solid

Date Received: 09/18/23 09:23

Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.446 g	10 mL	43762	09/27/23 15:18	JSP	EET SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	43765	09/28/23 02:00	JSP	EET SPK
Total/NA	Prep	5035			5.446 g	10 mL	43762	09/27/23 15:18	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	43764	09/28/23 02:00	JSP	EET SPK
Total/NA	Prep	3050B			1.45 g	50 mL	43745	09/27/23 10:57	AMB	EET SPK
Total/NA	Analysis	6010D		5			43775	09/27/23 21:32	AMB	EET SPK

**Laboratory References:**

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100  
 EET SEA = Eurofins Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310  
 EET SPK = Eurofins Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200



# Accreditation/Certification Summary

Client: GeoEngineers Inc  
 Project/Site: Kwik Stop/0504-05-07

Job ID: 590-21723-1

## Laboratory: Eurofins Spokane

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Washington	State	C569	01-07-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

## Laboratory: Eurofins Denver

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-23
A2LA	ISO/IEC 17025	2907.01	10-31-23
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-10-24
Arizona	State	AZ0713	12-20-23
Arkansas DEQ	State	19-047-0	05-31-23 *
California	State	2513	01-09-24
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-24
Georgia	State	4025-011	01-08-24
Illinois	NELAP	2000172019-1	04-30-24
Iowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-24
Kentucky (WW)	State	KY98047	12-31-23
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-23 *
Louisiana (All)	NELAP	30785	06-30-24
Minnesota	NELAP	1788752	12-31-23
Nevada	State	CO000262020-1	07-31-24
New Hampshire	NELAP	2053	04-28-24
New Jersey	NELAP	230001	06-30-24
New York	NELAP	59923	03-31-24
North Carolina (WW/SW)	State	358	12-31-23
North Dakota	State	R-034	01-08-24
Oregon	NELAP	4025-019	01-08-24
Pennsylvania	NELAP	013	07-31-24
South Carolina	State	72002001	01-08-24
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	09-30-23
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-23 *
Virginia	NELAP	460232	06-14-24
Washington	State	C583-19	08-03-23 *
West Virginia DEP	State	354	11-30-23
Wisconsin	State	999615430	08-31-24
Wyoming (UST)	A2LA	2907.01	10-31-22 *

## Laboratory: Eurofins Seattle

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# Accreditation/Certification Summary

Client: GeoEngineers Inc  
 Project/Site: Kwik Stop/0504-05-07

Job ID: 590-21723-1

## Laboratory: Eurofins Seattle (Continued)

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

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-004	02-19-25
ANAB	Dept. of Defense ELAP	L2236	01-19-25
ANAB	Dept. of Energy	L2236	01-19-25
ANAB	ISO/IEC 17025	L2236	01-19-25
California	State	2954	07-07-23 *
Florida	NELAP	E87575	06-30-23 *
Louisiana (All)	NELAP	03073	07-01-24
Maine	State	WA01273	05-02-24
Montana (UST)	State	NA	04-14-27
New Jersey	NELAP	WA014	06-30-24
New York	NELAP	11662	03-31-24
Oregon	NELAP	4167	07-07-24
US Fish & Wildlife	US Federal Programs	A20571	06-30-23 *
USDA	US Federal Programs	525-23-4-22573	01-04-26
Washington	State	C788	07-13-24
Wisconsin	State	399133460	08-31-24

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.



# Method Summary

Client: GeoEngineers Inc  
Project/Site: Kwik Stop/0504-05-07

Job ID: 590-21723-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SPK
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC/MS)	NWTPH	EET SPK
RSK-175	Dissolved Gases (GC)	RSK	EET DEN
300.0	Anions, Ion Chromatography	EPA	EET SPK
200.8	Metals (ICP/MS)	EPA	EET SEA
6010D	Metals (ICP)	SW846	EET SPK
9060A	Organic Carbon, Total (TOC)	SW846	EET SEA
Moisture	Percent Moisture	EPA	EET SPK
SM 2320B	Alkalinity	SM	EET SPK
SM 5310C	TOC	SM	EET SEA
200.8	Preparation, Total Metals	EPA	EET SEA
3050B	Preparation, Metals	SW846	EET SPK
5030C	Purge and Trap	SW846	EET SPK
5035	Closed System Purge and Trap	SW846	EET SPK
FILTRATION	Sample Filtration	None	EET SEA

## Protocol References:

EPA = US Environmental Protection Agency

None = None

NWTPH = Northwest Total Petroleum Hydrocarbon

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

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

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

## Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

EET SEA = Eurofins Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

EET SPK = Eurofins Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

**Eurofins Spokane**

11922 East 1st Ave  
Spokane, WA 99206  
Phone: 509-924-9200 Fax: 509-924-9290

**Chain of Custody Record**



Environment Testing



Client Information		Sampler	Lab PM:	Carrier Tracking No(s):	COC No:																																																																																																																								
Client Contact: Justin Orr		Phone:	Arrington, Randee E		590-8951-2569.1																																																																																																																								
Company: GeoEngineers Inc		PWSID:	E-Mail: Randee.Arrington@et.eurofinsus.com	State of Origin:	Page: Page 1 of 11																																																																																																																								
Address: 523 East Second Ave		Due Date Requested:	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="10">Analysis Requested</th> </tr> <tr> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Field Filtered Sample (Yes or No)</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>8260D, NWTPH_Gx_MS</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>9060A Standard Soil TOC</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Moisture Local Method</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>8260D, NWTPH_Gx_MS</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>200.8_CWA Total Iron &amp; Manganese</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>200.8_CWA Diss Iron &amp; Manganese</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>2320B, 300_ORGFM_28D, 300_ORGFMS</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>8310C Total Organic Carbon</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>RSK_175 Methane</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Total Number of Containers:</td> <td colspan="9"></td> </tr> </table>		Analysis Requested										Field Filtered Sample (Yes or No)										8260D, NWTPH_Gx_MS										9060A Standard Soil TOC										Moisture Local Method										8260D, NWTPH_Gx_MS										200.8_CWA Total Iron & Manganese										200.8_CWA Diss Iron & Manganese										2320B, 300_ORGFM_28D, 300_ORGFMS										8310C Total Organic Carbon										RSK_175 Methane										Total Number of Containers:										Job #:
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Relinquished by:		Date/Time:	Company:	Received by:		Date/Time:	Company:																																																																																																																						
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 2.1, 2.4 corr + 5.7, 6.0 corr   RJK/C																																																																																																																									

**Eurofins Spokane**

11922 East 1st Ave  
 Spokane, WA 99206  
 Phone: 509-924-9200 Fax: 509-924-9290

**Chain of Custody Record**

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<b>Client Information</b>		Sampler		Lab PM: Arrington, Randee E		Carrier Tracking No(s):		COC No: 590-8951-2569.2																									
Client Contact: Justin Orr		Phone:		E-Mail: Randee.Arrington@et.eurofinsus.com		State of Origin:		Page: Page 2 of 11																									
Company: GeoEngineers Inc		PWSID:		<b>Analysis Requested</b>						Job #:																							
Address: 523 East Second Ave		Due Date Requested:								Field Filtered Sample (Yes or No)		Total Number of Containers		Preservation Codes: A HCL                    M Hexane B NaOH                  N None C Zn Acetate            O AsNaO2 D Nitric Acid            P Na2O4S E NaHSO4                Q Na2SO3 F MeOH                  R Na2S2O3 G Amchlor                S H2SO4 H Ascorbic Acid        T TSP Dodecahydrate I Ice                        U Acetone J DI Water                V MCAA K EDTA                    W pH 4-5 L EDA                      Y Trizma Z other (specify)																			
City: Spokane		TAT Requested (days):		8260D, NWTPH_Gx_MS		9060A Standard Soil TOC		Moisture Local Method								8260D, NWTPH_Gx_MS		200.8_CWA Total Iron & Manganese		200.8_CWA Diss Iron & Manganese		2320B, 300_ORGFM_28D, 300_ORGFMMS		5310C Total Organic Carbon		RSK_175 Methane							
State, Zip: WA, 99202		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No								Matrix (W=water, S=solid, O=waste/soil, B=Tissue, A=Air)		Preservation Code		F														N		N		A	
Phone:		PO #: Purchase Order not required		Special Instructions/Note:																													
Email: jorr@geoengineers.com		WO #: 0504-058-07				Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix		Preservation Code		Field Filtered Sample (Yes or No)		Total Number of Containers		Special Instructions/Note:											
Project Name: Kwik Stop/0504-05-07		Project #: 59002658		B-12 (30-31-5)																				09/14/23		1155		G		Solid		F	
Site:		SSOW#:				B-12 (325-34)				1205				Solid		F		N		N		A											
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Deliverable Requested: I, II III IV Other (specify)																				Special Instructions/QC Requirements:		Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
						Custody Seals Intact. <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.		Cooler Temperature(s) °C and other Remarks: 2.1, 2.9 corr + 5.7, 6.0 corr 1PCOC																							

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11922 East 1st Ave  
Spokane, WA 99206  
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**Chain of Custody Record**



Environment Testing

<b>Client Information</b>			Sampler:			Lab PM:			Carrier Tracking No(s):			COC No:																							
Client Contact: Justin Orr			Phone:			Arrington, Randee E			E-Mail: Randee.Arrington@et.eurofinsus.com			State of Origin:			Page: Page 3 of 11																				
Company: GeoEngineers Inc						PWSID:						<b>Analysis Requested</b>						Job #:																	
Address: 523 East Second Ave						Due Date Requested:						Preservation Codes: A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Y Trizma Z other (specify)  Other:						City: Spokane			TAT Requested (days):			Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No			PO #: Purchase Order not required			Project Name: Kwik Stop/0504-05-07			Project #: 59002658		
State, Zip: WA, 99202						SSOW#:												Email: jorr@geoengineers.com			WO #: 0504-058-07			Site:											
Phone:						Sample Date												Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A-Air)		Field Filtered Sample (Yes or No)		Total Number of Containers		Special Instructions/Note:							
Project Name: Kwik Stop/0504-05-07						Sample Identification												Preservation Code:		Matrix		Field Filtered Sample (Yes or No)		Total Number of Containers											
Site:						<del>B-9 (2.5-4)</del>												1405		G		Solid		X											
						<del>B-9 (5-6.5)</del>						1415				Solid		1																	
						<del>B-9 (7.5-9)</del>						1420				Solid		1																	
						<del>B-9 (10-11.5)</del>						1425				Solid		2																	
						<del>B-9 (12.5-14)</del>						1440				Solid		3																	
						<del>B-9 (15-16.5)</del>						1445				Solid		1																	
						<del>B-9 (17.5-19)</del>						1450				Solid		1																	
						<del>B-9 (20-21.5)</del>						1455				Solid		X																	
						<del>B-9 (22.5-24)</del>						1458				Solid		1																	
						<del>B-9 (25-26.5)</del>						1500				Solid		X																	
						<del>B-9 (27.5-29)</del>						1500				Solid		3																	
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)						Special Instructions/QC Requirements.																							
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																													
Deliverable Requested: I, II, III, IV Other (specify)						Empty Kit Relinquished by:						Date:						Time:						Method of Shipment:											
Relinquished by: Kence Hanson						Date/Time: 9/18/23 0920						Company: GET						Received by: [Signature]						Date/Time: 9/18/23 9:23						Company: BET SRB					
Relinquished by:						Date/Time:						Company:						Received by:						Date/Time:						Company:					
Relinquished by:						Date/Time:						Company:						Received by:						Date/Time:						Company:					
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No						Custody Seal No.						Cooler Temperature(s) °C and Other Remarks: 2.1, 2.4/corr + 5.76:0 cord [Signature]																							



**Eurofins Spokane**

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 Spokane, WA 99206  
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**Chain of Custody Record**

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<b>Client Information</b>		Sampler		Lab PM: Arrington, Randee E		Carrier Tracking No(s):		COC No: 590-8951-2569.6																																																										
Client Contact: Justin Orr		Phone:		E-Mail: Randee.Arrington@et.eurofinsus.com		State of Origin:		Page: Page 6 of 11																																																										
Company: GeoEngineers Inc		PWSID:		<b>Analysis Requested</b>						Job #:																																																								
Address: 523 East Second Ave		Due Date Requested:		<table border="1"> <tr> <td>Field Filtered Sample (Yes or No)</td> <td>8260D, NWTPH_Gx_MS</td> <td>9060A Standard Soil TOC</td> <td>Moisture Local Method</td> <td>8260D, NWTPH_Gx_MS</td> <td>200.8_CWA Total Iron &amp; Manganese</td> <td>200.8_CWA Diss Iron &amp; Manganese</td> <td>2220B, 300_ORGFM_28D, 300_ORGFM5</td> <td>5310C Total Organic Carbon</td> <td>RSK_175 Methane</td> <td>Total Number of Containers</td> </tr> <tr> <td>City: Spokane</td> <td colspan="2">TAT Requested (days):</td> <td colspan="8">                 Preservation Codes:                  A HCL M Hexane                  B NaOH N None                  C Zn Acetate O AsNaO2                  D Nitric Acid P Na2O4S                  E NaHSO4 Q Na2SO3                  F MeOH R Na2S2O3                  G Amchlor S H2SO4                  H Ascorbic Acid T TSP Dodecahydrate                  I Ice U Acetone                  J DI Water V MCAA                  K EDTA W pH 4-5                  L EDA Y Trizma                  Z other (specify)             </td> </tr> <tr> <td>State, Zip: WA, 99202</td> <td colspan="2">Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No</td> <td colspan="8">Other:</td> </tr> <tr> <td>Phone:</td> <td colspan="2">PO #: Purchase Order not required</td> <td colspan="8">Special Instructions/Note.</td> </tr> <tr> <td>Email: jorr@geoengineers.com</td> <td colspan="2">WO #: 0504-058-07</td> <td colspan="8"></td> </tr> </table>						Field Filtered Sample (Yes or No)	8260D, NWTPH_Gx_MS	9060A Standard Soil TOC	Moisture Local Method	8260D, NWTPH_Gx_MS	200.8_CWA Total Iron & Manganese	200.8_CWA Diss Iron & Manganese	2220B, 300_ORGFM_28D, 300_ORGFM5	5310C Total Organic Carbon	RSK_175 Methane	Total Number of Containers	City: Spokane	TAT Requested (days):		Preservation Codes: A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Y Trizma Z other (specify)								State, Zip: WA, 99202	Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		Other:								Phone:	PO #: Purchase Order not required		Special Instructions/Note.								Email: jorr@geoengineers.com	WO #: 0504-058-07										Project Name: Kwik Stop/0504-05-07	
Field Filtered Sample (Yes or No)	8260D, NWTPH_Gx_MS	9060A Standard Soil TOC	Moisture Local Method							8260D, NWTPH_Gx_MS	200.8_CWA Total Iron & Manganese	200.8_CWA Diss Iron & Manganese	2220B, 300_ORGFM_28D, 300_ORGFM5	5310C Total Organic Carbon	RSK_175 Methane	Total Number of Containers																																																		
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Relinquished by: Bryce Hanson <i>[Signature]</i>		Date/Time:		Company:		Received by:		Date/Time:		Company:																																																								
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:																																																								
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**Eurofins Spokane**

11922 East 1st Ave  
Spokane, WA 99206  
Phone: 509-924-9200 Fax: 509-924-9290

**Chain of Custody Record**

Client Information					Sampler		Lab PM:		Carrier Tracking No(s):			COC No:																																																																																																																																																						
Client Contact: Justin Orr					Phone:		Arrington, Randee E		State of Origin:			590-8951-2569.7																																																																																																																																																						
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Possible Hazard Identification  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Radiological  
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

Deliverable Requested: I II, III, IV Other (specify) \_\_\_\_\_  
 Special Instructions/QC Requirements: \_\_\_\_\_

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:	
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
<i>Byron Benson</i>	9/18/23 0920	GTZ	<i>M...</i>	9/18/23 9:23	LET SRU
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

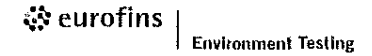
Cooler Temperature(s) °C and Other Remarks: 2, 2.4 cor + 5.7, 6.0 cor 1/16/2023  
 Custody Seals Intact:  Yes  No  
 Custody Seal No. \_\_\_\_\_  
 Page 55 of 77

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**Eurofins Spokane**

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Phone: 509-924-9200 Fax: 509-924-9290

**Chain of Custody Record**



<b>Client Information</b> Client Contact: Justin Orr Company: GeoEngineers Inc Address: 523 East Second Ave City: Spokane State, Zip: WA, 99202 Phone: jorr@geoengineers.com Project Name: Kwik Stop/0504-05-07 Site:			Sampler: Arrington, Randee E Phone: Randee.Arrington@et.eurofinsus.com Lab PM: Arrington, Randee E E-Mail:			Carrier Tracking No(s): State of Origin: Analysis Requested: Preservation Codes: Job #:			COC No: 590-8951-2689.8 Page: Page 8 of 11 Preservation Codes: A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2SO3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify) Other:		
Due Date Requested: TAT Requested (days): Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No PO #: Purchase Order not required WO #: 0504-058-07 Project #: 59002658 SSOW#:			Field Filtered Sample (Yes or No): 8260D, NWTPH_Gx_MS 9060A Standard Soil TOC Moisture Local Method 8260D, NWTPH_Gx_MS 200.8_CWA Total Iron & Manganese 200.8_CWA Diss Iron & Manganese 2320B, 300_ORGFM_28D, 300_ORGFMS 5310C Total Organic Carbon RSK_175 Methane			Total Number of Containers: Special Instructions/Note:					
<b>Sample Identification</b> Sample Date Sample Time Sample Type (C=Comp, G=grab) Matrix (W=water, S=solid, O=waste/soil, BT=biota, A=Air)			Preservation Code: X F N N A D N N S A			1 3 1 1 1 4 1 1 3 1 1 4					
B-10(5-6.5) B-10(10-11.5) B-10(15-16.5) B-10(20-21.5) B-10(22.5-24.5) B-10(25-26.5) B-10(27.5-29) B-10(30-31.5) B-10(32.5-34) B-10(37.5-39) B-10(40-41.5)			09/14/23 0822 0826 0833 0837 0841 0844 0850 0853 0900 0920 0925			G Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid			1 3 1 1 1 4 1 1 3 1 1 4		
Possible Hazard Identification for B-10(35-36.5) <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological			Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months			Deliverable Requested: I, II, III, IV Other (specify) Special Instructions/QC Requirements:					
Empty Kit Relinquished by: [Signatures] Date: 9/18/23 0920 Company: 657			Received by: [Signature] Date/Time: 9/18/23 9:23 Company: BET 8P			Cooler Temperature(s) °C and Other Remarks: 2.4, 2.4 corr + 5.7, 6.0 corr 12/1/23					



**Eurofins Spokane**

11922 East 1st Ave  
 Spokane, WA 99206  
 Phone: 509-924-9200 Fax: 509-924-9290

**Chain of Custody Record**

eurofins | Environment Testing

<b>Client Information</b>		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:											
Client Contact: Justin Orr		Phone:	Arrington, Randee E		590-8951-2569.9											
Company: GeoEngineers Inc		PWSID:	E-Mail: Randee.Arrington@et.eurofinsus.com	State of Origin:	Page: Page 9 of 11											
Address: 523 East Second Ave		Due Date Requested:	<b>Analysis Requested</b>													
City: Spokane		TAT Requested (days):														
State, Zip: WA, 99202		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No	Preservation Codes: A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDTA Y Trizma Z other (specify)													
Phone:		PO #: Purchase Order not required														
Email: jorr@geoengineers.com		WO #: 0504-058-07	Job #:  Other:													
Project Name: Kwik Stop/0504-05-07		Project #: 59002658														
Site:		SSOW#:	Total Number of Containers													
<b>Sample Identification</b>		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	3260D, NWTPH_GA_MS	9060A Standard Soil TOC	Moisture Local Method	3260D, NWTPH_GA_MS	200.8_CWA Total Iron & Manganese	200.8_CWA Diss Iron & Manganese	2320B, 300_ORGFPM_28D, 300_ORGFMS	5310C Total Organic Carbon	RSK_175 Methane	Special Instructions/Note:
				Preservation Code												
B-8 (2-5-4)		09/13/23	1200	G	Solid											
B-8 (5-6-5)			1220		Solid											
B-8 (7-5-9)			1235		Solid											
B-8 (10-11-5)			1235		Solid											
B-8 (12-5-14)			1240		Solid											3
B-8 (15-16-5)			1250		Solid											1
B-8 (17-5-19)			1255		Solid											1
B-8 (20-21-5)			1300		Solid											1
B-8 (22-5-24)			1310		Solid											1
B-8 (25-26-5)			1320		Solid											3
B-8 (27-5-29)			1325		Solid											1
<b>Possible Hazard Identification</b>						<b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b>										
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months										
Deliverable Requested: I, II III IV Other (specify)						Special Instructions/QC Requirements.										
Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:												
Relinquished by: Katie Hanson		Date/Time: 9/18/23 0920	Company: 652	Received by: [Signature]		Date/Time: 9/18/23 9:23	Company: BSC820									
Relinquished by:		Date/Time:	Company:	Received by:		Date/Time:	Company:									
Relinquished by:		Date/Time:	Company:	Received by:		Date/Time:	Company:									
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.		Cooler Temperature(s) °C and Other Remarks: 2, 2.4 corr (Reeds) + 5.7, 6.0 (Reeds)												

**Eurofins Spokane**

11922 East 1st Ave  
Spokane, WA 99206  
Phone: 509-924-9200 Fax: 509-924-9290

**Chain of Custody Record**

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<b>Client Information</b>					Sampler: Arrington, Randee E		Lab PM: Arrington, Randee E		Carrier Tracking No(s):		COC No: 590-8951-2569.10							
Client Contact: Justin Orr					Phone:		E-Mail: Randee.Arrington@et.eurofinsus.com		State of Origin:		Page: Page 10 of 11							
Company: GeoEngineers Inc					PWSID:		<b>Analysis Requested</b>					Job #:						
Address: 523 East Second Ave					Due Date Requested:													
City: Spokane					TAT Requested (days):		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Filtered Sample (Yes or No) <input type="checkbox"/>		8260D, NWTPH_Gr_MS <input type="checkbox"/> 9060A Standard Soil TOC <input type="checkbox"/> Moisture Local Method <input type="checkbox"/> 8260D, NWTPH_Gr_MS <input type="checkbox"/> 200.8_CWA Total Iron & Manganese <input type="checkbox"/> 200.8_CWA Diss Iron & Manganese <input type="checkbox"/> 2320B, 300_ORGFIM_28D, 300_ORGFIMS <input type="checkbox"/> 5310C Total Organic Carbon <input type="checkbox"/> RSK_175 Methane <input type="checkbox"/>		Preservation Codes: A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DJ Water V MCAA K EDTA W pH 4-5 L EDA Y Trizma Z other (specify)							
State, Zip: WA, 99202					Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No													
Phone:					PO #: Purchase Order not required													
Email: jorr@geoengineers.com					WO #: 0504-058-07													
Project Name: Kwik Stop/0504-05-07					Project #: 59002658		Total Number of containers:		Other:		Special Instructions/Note:							
Site:					SSOW#:													
Sample Identification				Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)											
						Preservation Code:												
- B-8 (30-31-5)				09/13/23	1330	G	Solid											
- B-8 (32-5-34)					1335		Solid											
- B-8 (35-36.5)					1340		Solid											
- B-8 (37.5-39)					1345		Solid											
- B-8 (40-41.5)					1400		Solid											
							Solid											
							Solid											
							Solid											
							Water											
							Water											
							Water											

**Possible Hazard Identification**  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Radiological

**Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)**  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

Deliverable Requested:  I  II  III  IV Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Method of Shipment: \_\_\_\_\_

Relinquished by: <i>Kevin Hanson</i>	Date/Time: 9/18/23 0900	Company: OBT	Received by: <i>M...</i>	Date/Time: 9/18/23 9:23	Company: BETSPO
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact:  Yes  No

Custody Seal No. \_\_\_\_\_

Cooler Temperature(s) °C and Other Remarks: *2.1, 2.4 corr + 5.7, 6.0 corr 1/2006*

Client Information			Sampler	Lab PM:	Carrier Tracking No(s):				COC No:																																
Client Contact: Justin Orr			Phone:	Arrington, Randee E	State of Origin:				590-8951-2569.11																																
Company: GeoEngineers Inc			PWSID:	E-Mail: Randee.Arrington@et.eurofinsus.com				Page: Page 11 of 11	Job #:																																
Address:			Due Date Requested:		Analysis Requested				Preservation Codes:																																
523 East Second Ave			TAT Requested (days):		Field Filtered Sample (Yes/No)	8260D, NWTPH_Gx_MS	9060A Standard Soil TOC	Moisture Local Method	8260D, NWTPH_Gx_MS	200.8_CWA Total Iron & Manganese	200.8_CWA Diss Iron & Manganese	2320B, 300_ORGFML_28D, 300_ORGFMS	5210C Total Organic Carbon	RSK_175 Methane	Total Number of Containers	A HCL M Hexane		B NaOH N None		C Zn Acetate O AsNaO2		D Nitric Acid P Na2O4S		E NaHSO4 Q Na2SO3		F MeOH R Na2S2O3		G Amchlor S H2SO4		H Ascorbic Acid T TSP Dodecahydrate		I Ica U Acetone		J DI Water V MCAA		K EDTA W pH 4-5		L EDA Y Trizma		Z other (specify)	
City: Spokane			Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No													PO #:		Purchase Order not required		WO #:		0504-058-07		Project #:		59002658		SSOW#:		Special Instructions/Note:											
State, Zip: WA, 99202			PO #:													Purchase Order not required		WO #:		0504-058-07		Project #:		59002658		SSOW#:		Special Instructions/Note:													
Phone:			PO #:													Purchase Order not required		WO #:		0504-058-07		Project #:		59002658		SSOW#:		Special Instructions/Note:													
Email: jorr@geoengineers.com			PO #:													Purchase Order not required		WO #:		0504-058-07		Project #:		59002658		SSOW#:		Special Instructions/Note:													
Project Name: Kwik Stop/0504-05-07			PO #:													Purchase Order not required		WO #:		0504-058-07		Project #:		59002658		SSOW#:		Special Instructions/Note:													
Site:			PO #:													Purchase Order not required		WO #:		0504-058-07		Project #:		59002658		SSOW#:		Special Instructions/Note:													
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes/No)	8260D, NWTPH_Gx_MS	9060A Standard Soil TOC	Moisture Local Method	8260D, NWTPH_Gx_MS	200.8_CWA Total Iron & Manganese	200.8_CWA Diss Iron & Manganese	2320B, 300_ORGFML_28D, 300_ORGFMS	5210C Total Organic Carbon	RSK_175 Methane	Total Number of Containers	Special Instructions/Note:																									
<del>B-9(30-31.5)</del>	09/13/23	1505	G	Water	X	F	N	N	A	D	N	N	S	A	X																										
<del>B-9(32.5-34)</del>		1510		Water											Y																										
<del>B-9(35-36.5)</del>		1515		Water											X																										
<del>B-9(37.5-39)</del>		1520		Water											U																										
B-9(40-41.5)		1550		Water											Y																										
				Water																																					
				Water																																					
				Water																																					
				Water																																					

<b>Possible Hazard Identification</b>		<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>		
<input type="checkbox"/> Non-Hazard	<input type="checkbox"/> Flammable	<input type="checkbox"/> Skin Irritant	<input type="checkbox"/> Poison B	<input type="checkbox"/> Unknown
<input type="checkbox"/> Radiological	<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested. I, II, III IV Other (specify)		Special Instructions/QC Requirements:		
Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:
Relinquished by: [Signature]	Date/Time: 9/18/23 0920	Company: G 67	Received by: [Signature]	Date/Time: 9/18/23 9:23
Relinquished by: [Signature]	Date/Time:	Company:	Received by:	Date/Time:
Relinquished by: [Signature]	Date/Time:	Company:	Received by:	Date/Time:
Custody Seals Intact:	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:		
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		2.1, 2.4 corr + 5.7, 6.0 corr 11006		

**Eurofins Spokane**

11922 East 1st Ave  
Spokane, WA 99206  
Phone: 509-924-9200 Fax: 509-924-9290

**Chain of Custody Record**



<b>Client Information</b>		Sampler:	Lab File:					
Client Contact: Justin Orr		Phone:	Arrington, Randee E					
Company: GeoEngineers Inc		PWSID:	State of Origin: Randee.Arrington@eurofins.com					
Address: 523 East Second Ave		Due Date Requested:	Carrier Tracking No(s):					
City: Spokane		TAT Requested (days):	COC No: 590-8951-2569.9					
State, Zip: WA, 99202		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No	Page: Page 9 of 11					
Phone:		PO #: Purchase Order not required	Job #:					
Email: jorr@geoengineers.com		NO #: 0504-058-07	<b>Preservation Codes:</b> A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - HNO3SO4 F - MnOH G - Anionic H - Ascobic Acid I - Isc J - DI Water K - EDTA L - EDTA M - Hazma N - None O - AsH2O2 P - H2O2S Q - H2SO4 R - H2SO3 S - H2SO4 T - TSP Desiccant U - Acetone V - HCL W - pH 4.4 Y - Triaza Z - Other (specify)					
Project Name: Kwik Stop/0504-05-07		Project #: 59002658						
Site:		SSOW#: _____						
<b>Sample Identification</b>	Sample Date	Sample Time	Sample Type (C-Comp, G-grad, S-Sieve, etc)	Matrix (Mineral, Organic, etc)	Field Filtered - Sample (Yes or No)	Analysis Requested	Total Number of Containers	Special Instructions/Notes
B-8 (2-5-4)	09/13/23	1250	G	Solid		8260D, NWTPH_Gx_MS / BTEXN		
B-8 (5-6-5)		1220		Solid		9060A - Standard Soil TOC		
B-8 (7-5-9)		1235		Solid		Moisture - Local Method		
B-8 (10-11-5)		1255		Solid		8260D, NWTPH_Gx_MS		
B-8 (12-5-14)		1240		Solid		200.8_CWA - Total Iron & Manganese		
B-8 (15-16-5)		1250		Solid		200.8_CWA - Diss Iron & Manganese		
B-8 (17-5-19)		1255		Solid		2320B, 300_ORGFM_28D, 300_ORGFM5		
B-8 (20-21-5)		1300		Solid		6310C - Total Organic Carbon		
B-8 (22-5-24)		1310		Solid		R8K_175 - Methane		
B-8 (25-26-5)		1320		Solid				
B-8 (27-5-29)		1325		Solid	X			
<b>Possible Hazard Identification</b>		<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:
Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:				
Relinquished by: <i>Kyle Hanson</i>		Date/Time: 9/18/23 09:20	Company: 6622	Received by: <i>WV</i>		Date/Time: 9/18/23 9:23	Company: <i>PT 880</i>	
Relinquished by:		Date/Time:	Company:	Received by:		Date/Time:	Company:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: <i>2/2/2023 12:00:00 12:00:00</i>		Ver: 06/08/2021			

Eurofins Spokane

11922 East 1st Ave  
Spokane, WA 99208  
Phone: 509-924-9200 Fax: 509-924-9290

Chain of Custody Record



**Client Information**  
 Client Contact: Justin Orr  
 Company: GeoEngineers Inc  
 Address: 523 East Second Ave  
 City: Spokane  
 State Zip: WA 99202  
 Phone: [blank]  
 Email: jor@geoengineers.com  
 Project Name: KWH Stop0504-05-07  
 Site: [blank]  
 Lab P#: Arrington, Randle E  
 E-Mail: Randle.Arrington@eurofins.com  
 State of Origin: [blank]  
 CQC No: 590-8951-2589.10  
 Page: 10 of 11  
 Job #: [blank]

**Analysis Requested**  
 8260D, NWTPH\_Gx\_MS  
 8060A - Standard Soil TOC  
 Molature - Local Method  
 8260D, NWTPH\_Gx\_MS  
 200.8\_CWA - Total Iron & Manganese  
 200.8\_CWA - Diss Iron & Manganese  
 2320B, 300\_ORGFM\_28D, 300\_ORGFMS  
 6310C - Total Organic Carbon  
 RSK\_175 - Methane  
 Total Metal  
 Total Number of Containers: [blank]

Sample Identification	Sample Date	Sample Time	Sample Type (G=Grab, P=Prep, S=Solid)	Matrix (Metal, Organic, Inorganic, etc.)	Field Filtered Sample (Yes or No)	Analysis Requested	Special Instructions/Notes
B-8 (20-31-5)	09/17/23	1330	S	Solid	X	8260D, NWTPH_Gx_MS	
B-8 (30-5-34)		1335	S	Solid	X	8060A - Standard Soil TOC	
B-8 (35-36-5)		1340	S	Solid	X	Molature - Local Method	
B-8 (37-5-39)		1345	S	Solid	X	8260D, NWTPH_Gx_MS	
B-8 (40-41-5)		1400	S	Solid	X	200.8_CWA - Total Iron & Manganese	

**Possible Hazard Identification**  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Lignin  Radiological

**Deliverable Requested:** I, II, III, IV, Other (Specify) \_\_\_\_\_

**Empty Kit Relinquished by:** \_\_\_\_\_ Date: \_\_\_\_\_

**Requested by:** Kyré Hanson Date/TIME: 7/18/23 0900 Company: GEP

**Received by:** [Signature] Date/TIME: 9/18/23 9:23 Company: BETSRB

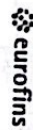
**Custody Seal Intact:** A Yes A No \_\_\_\_\_ Custody Seal No.: \_\_\_\_\_

**Special Instructions/Notes:**  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_  
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Special Instructions/OC Requirements: Total Metals Fe, Ca, Mn, Ni, Pb, Cr  
 Method of Shipment: \_\_\_\_\_  
 Other: [blank]

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**Eurofins Spokane**  
 1822 East 1st Ave  
 Spokane, WA 99208  
 Phone: 509-924-9200 Fax: 509-924-9290

**Chain of Custody Record**



Environment Testing

<b>Client Information</b>		Client Contact: Justin Orr	Sampler: Phone:	Lab Pk: Arrington, Rande E	Center Tracking No.:	COC No: 590-8951-2589_3
Company: GeoEngineers Inc		Address: 523 East Second Ave Spokane WA, 99202	City: Spokane	State: WA, 99202	Phone: 509-924-9200	Page: Page 3 of 11
Email: jor@geoengineers.com		Project Name: Kwik Stop0504-05-07	Project #: 0504-050-07	Project #: 59002658	SSOW#: _____	Job #: _____
Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Purchase Order not required		Analysis Requested		
Sample Identification		Sample Date	Sample Time	Sample Type (Grab, etc.)	Matrix (Aspirate, Swab, etc.)	Field # (if used) Sample # (if used)
B-9 (2-5-21)	09/13/23	1405	G	Field # (if used) Sample # (if used)	8260D, NWTPH_Gx_MS	187EXN
B-9 (5-6-5)		1415	Solid	9060A - Standard Soil TOC	Moisture - Local Method	
B-9 (7-5-9)		1420	Solid	200.8_CWA - Total Iron & Manganese	200.8_CWA - Diss Iron & Manganese	
B-9 (10-1-5)		1425	Solid	2320B, 300_ORGFM_28D, 300_ORGFMS	6310C - Total Organic Carbon	
B-9 (12-5-14)		1440	Solid	RSK_175 - Methane		
B-9 (15-1-6-5)		1445	Solid			
B-9 (17-5-19)		1450	Solid			
B-9 (20-2-5)		1455	Solid			
B-9 (22-5-24)		1458	Solid			
B-9 (25-2-5)		1500	Solid			
B-9 (27-5-29)		1500	Solid			

Possible Hazard Identification  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Requisitioned by: \_\_\_\_\_ Date: \_\_\_\_\_

Relinquished by: Rene Hensen Date: 9/18/23 0920 Company: GET

Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Company: \_\_\_\_\_

Custody/Seals Intact:  Yes  No Custody Seal No.: \_\_\_\_\_

Special Instructions/Note: \_\_\_\_\_

Special Instructions/QC Requirements: \_\_\_\_\_

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return To Client  Dispose By Lab  Archive For \_\_\_\_\_ Months

Method of Storage: \_\_\_\_\_

Received by: \_\_\_\_\_ Date: 9/18/23 9:23 Company: GET SR

Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Company: \_\_\_\_\_

Cold Temperature(s) °C and Other Remarks: 2, 1, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96, 98, 100

Ver: 06/03/2021



**Eurofins Spokane**

11922 East 1st Ave  
Spokane, WA 99208  
Phone: 509-924-9200 Fax: 509-924-9290

**Chain of Custody Record**

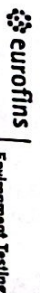


Environment Testing

<b>Client Information</b>		Client Contact: Justin Orr	Company: GeoEngineers Inc	Address: 523 East Second Ave Spokane WA, 99202	City: Spokane	State, Zip: WA, 99202	Phone: (blank)	Sample: (blank)	Lab File: Arrington, Rande E	Carrier Tracking No(s):	COC No: 590-9951-2569_11
<b>Analysis Requested</b>		Due Date Requested: (blank)	PWSID: (blank)	TAT Requested (days): (blank)	Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No	Purchase Order not required	VO #: 0504-068-07	Project #: 59002656	SSOW#: (blank)	State of Origin:	Page: 11 of 11
<b>Sample Identification</b>		Sample Date: 09/13/23	Sample Time: 1505	Sample Type: <input checked="" type="checkbox"/> Particulate Matter	Matrix: Water	Field Filtered Sample (Yes or No): <input checked="" type="checkbox"/>	8260D, NWTPH_Gx_MS	1/BTEXN		Preservation Codes: A-HCL B-NaOH C-Zn Acetate D-His Acid E-HNSO4 F-HNSO4 G-Antiox H-Acetate I-Isa J-DI Water K-EDTA L-EDTA Other:	M-Hezua N-Nona O-AMMO2 P-H2O2S Q-H2SO3 R-H2SO4 S-H2SO4 T-TSP Dodecylhydrate U-Acetone V-MCLA W-pH 4.5 Y-Tems Z-other (specify)
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Special Instructions/Note: (blank)									
Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For									
Empty Kit Relinquished by: (blank)		Date: 09/18/23	Time: 0900	Company: G&E	Received by: (signature)	Special Instructions: $Zn, Fe, Cr, Mn, Ni, Cu, Pb, Cd$					Method of Storage: Months
Relinquished by: (signature)		Date: (blank)	Time: (blank)	Company: (blank)	Received by: (signature)					Method of Storage: Months	COB: 09/18/23 9:03 AM
Relinquished by: (signature)		Date: (blank)	Time: (blank)	Company: (blank)	Received by: (signature)					Method of Storage: Months	COB: 09/18/23 9:03 AM
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Colder Temperature(s) °C and Other Remarks: 2.1, 2.4, 5.0, 5.7, 6.0, 10.0							

**Eurofins Spokane**  
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**Chain of Custody Record**



<b>Client Information</b>		Sampler:	Lab P/N:	Carrier Tracking Method:	CCO No.:
Client Contact: <b>Luther Orr</b>		Project:	Estimate:	State of Origin:	590-8951-2599.8
Company: <b>GeoEngineers Inc</b>		PWSID:		Page:	Page 8 of 11
Address: <b>523 East Second Ave</b>		Due Date Requested:		Job #:	
City: <b>Spokane</b>		YAT Requested (days):		Preservation Codes:	
State, Zip: <b>WA, 99202</b>		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		A - HCL B - NiOH C - Zn Acetate D - Nitric Acid E - Nitric Acid F - MnOH G - Ammonia H - Acetic Acid I - Ice J - DI Water K - EDTA L - EDTA M - Heane N - None O - AAmCZ P - Na2SO4 Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecylhydrate U - Acetone V - MCAA W - pH 4-5 X - Tirona Z - other (specify)	
Phone: _____		Purchase Order not required		Other:	
Email: <b>lorr@geoengineers.com</b>		W/O #: <b>0504-058-07</b>			
Project Name: <b>Kwik Stop/0504-05-07</b>		Project #: <b>59002658</b>			
Site: _____		SSON#: _____			

Sample Identification	Sample Date	Sample Time	Sample Type (C-Comp, G-Grab)	Matrix (Inorganic, Organic, etc.)	Field Filtered Sample (Yes or No)	Analysis Requested	Special Instructions/Notes
B-10(5-6-5)	09/14/23	0822	G	Solid	X	8260, NWTPH_Gx_MS 800A - Standard Soil TOC Moisture - Local Method 8260D, NWTPH_Gx_MS 200.8_CWA - Total Iron & Manganese 200.8_CWA - Diss Iron & Manganese 2320B, 300_ORGFM_280, 300_ORGFMS 8310C - Total Organic Carbon RBK_175 - Methane	
B-10(10-11-5)		0826		Solid	X		
B-10(15-16-5)		0933		Solid	X		
B-10(20-21-5)		0837		Solid	X		
B-10(22-23-24-5)		0841		Solid	X		
B-10(25-26-5)		0844		Solid	X		
B-10(27-5-27)		0850		Solid	X		
B-10(30-31-5)		0855		Solid	X		
B-10(32-5-34)		0900		Solid	X		
B-10(37-5-39)		0920		Solid	X		
B-10(40-41-5)		0925		Solid	X		

Deliverable Requested: <input type="checkbox"/> I, <input type="checkbox"/> II, <input type="checkbox"/> III, <input type="checkbox"/> IV, Other (specify) _____	Possible Hazard Identification: <input checked="" type="checkbox"/> [-10(35-36-5)]	Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological <input type="checkbox"/>	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months
--	--	--	--

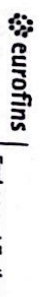
  

Empty Kit Relinquished by: _____	Date: _____	Time: _____	Method of Shipment: _____
Relinquished by: _____	Date/Time: <b>9/18/23 0920</b>	Company: <b>667</b>	Received by: _____
Relinquished by: <b>Grace Hanson</b>	Date/Time: _____	Company: _____	Received by: _____
Relinquished by: _____	Date/Time: _____	Company: _____	Received by: _____
Custody Seal Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: <b>2.1, 24 con + 57.6.0 con 12 con</b>	Date/Time: _____

**Eurofins Spokane**

11822 East 1st Ave  
Spokane, WA 99208  
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**Chain of Custody Record**



Client Information		Lab Ref.		Carrier/Tracking Info:		COC No.:	
Client Contact: Lusth Off	Project: GeoEngineers Inc	Arrington, Randee E	Est#: Randee.Arrington@eurofins.com	Status of Order:	Page: 6 of 11	590-8951-2569 6	Page: 6 of 11
Company: GeoEngineers Inc	Address: 523 East Second Ave	City: Spokane	State, Zip: WA, 99202	Analysis Requested:	Job #:		
Phone: lort@eurofins.com	PO #: Purchase Order not required	Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No	Project #: 59002658				
Product Name: Kwik Stop0504-05-07	Project #: 59002658	Matrix (Amoxicillin, Benzocaine, Ibuprofen, ASA)	SSOWR:				
Size:		Field Filtered Sample (Yes/No)					
Sample Identification	Sample Date	Sample Time	Sample Type (C-Comp, G-Graph)	Matrix (Amoxicillin, Benzocaine, Ibuprofen, ASA)	Field Filtered Sample (Yes/No)	Analysis Requested	Special Instructions/Notes:
B-11 (2-5-4)	01/14/23	1340	G	Solid	6260D, NWTPH_Gx_MS	137ERN	
B-11 (5-6-5)		1345		Solid	9060A - Standard Soil TOC		
B-11 (7-5-9)		1350		Solid	Molature - Local Method		
B-11 (10-11-5)		1355		Solid	6260D, NWTPH_Gx_MS		
B-11 (12-5-14)		1405		Solid	200_I_CWA - Total Iron & Manganese		
B-11 (15-16-5)		1405		Solid	200_S_CWA - Diss Iron & Manganese		
B-11 (17-5-15)		1410		Solid	2320B, 300_ORGFM_280, 300_ORGFS		
B-11 (20-21-5)		1415		Solid	6310C - Total Organic Carbon		
B-11 (22-5-24)		1420		Solid	RSK_175 - Methane	Total metals	
B-11 (25-26-5)		1430		Solid			
B-11 (27-28-29)		1440		Solid			
Possible Hazard Identification							
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological							
Deliverable Requested: I, II, III, IV, Other (specify)							
Empty Kit Relinquished by: _____ Date: _____							
Relinquished by: <u>W. B. B.</u>		Date/Time: <u>9/18/23 0930</u>		Company: <u>GET</u>		Received by: <u>W. B. B.</u>	
Relinquished by: <u>Race Hansen</u>		Date/Time: _____		Company: _____		Received by: _____	
Custody Seal Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Temp(s): <u>2.1, 2.4, 6.0, 5.7, 6.0, 1.0</u>		Ver: 06/09/2021	

**Eurofins Spokane**  
 11922 East 1st Ave  
 Spokane, WA 99206  
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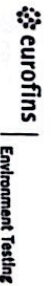
**Chain of Custody Record**

**eurofins** | Environment Testing

<b>Client Information</b>				Sampler:	Lab Pin:	<b>Analysis Requested</b>		GOC No:	
Client Contact: Justin Orr				Phone:	Arrington, Randa E	6260D, NWTPH_Gx_MS		590-8951-2569.7	
Company: GeoEngineers Inc				FWSID:	Randee.Arrington@e1.eurofins.com	Moisture - Local Method		Page: Page 7 of 11	
Address: 523 East Second Ave				City:	Spokane	6260D, NWTPH_Gx_MS		Job #:	
State, Zip: WA, 99202				Due Date Requested:		200.8_CWA - Total Iron & Manganese		A - HCL	
Phone:				TAT Requested (days):		200.8_CWA - Dis Iron & Manganese		B - NaOH	
Email: jorr@geoengineers.com				Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		2320B, 300_ORGFM_28D, 300_ORGFMS		C - Zn Acetate	
Project Name: Kwik Stop/0504-05-07				PO #:		6310C - Total Organic Carbon		D - Nitric Acid	
Site: S5002568				Purchase Order not required		RSK_176 - Methane		E - HARS04	
				W/O #:		Total Number of Containers:		F - MeOH	
				Project #:		Special Instructions/Notes:		G - Anchor	
				SSON#:		Special Instructions/Notes:		H - Ascronic Acid	
								I - Ice	
								J - DI Water	
								K - EDTA	
								L - EDTA	
								M - Hexane	
								N - None	
								O - AsHClO2	
								P - H2O2S	
								Q - Na2SO3	
								R - Na2S2O3	
								S - H2SO4	
								T - TSP Dechlorhydrate	
								U - Acetone	
								V - HClA	
								W - pH 4.5	
								X - Triene	
								Z - other (specify)	

**Eurofins Spokane**  
 11922 East 1st Ave  
 Spokane, WA 99206  
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**Chain of Custody Record**



<b>Client Information</b>		Client Contact: Justin Ory	Company: GeoEngineers Inc	Address: 523 East Second Ave Spokane, WA, 99202	Phone: 509-924-9200	Project Name: Kwik Stop/0504-05-07	Site: S50VW
<b>Sample Information</b>		Sampler: [Blank]	Job P/L: Arrington, Randa E	State of Origin: [Blank]	COC No: 590-9951-2598_1	Page 1 of 11	
<b>Our Data Requested:</b>		TAI Requested (days): [Blank]	Analysis Requested:	2260D, NWTPH_Gx_MS 0808A - Standard Soil TOC Moisture - Local Method 2260D, NWTPH_Gx_MS 200_8_CWA - Total Iron & Manganese 200_8_CWA - Diss Iron & Manganese 2320B, 300_ORGFM_28D, 300_ORGFMS 5310C - Total Organic Carbon RSK_176 - Methane <i>Total Metals</i>			
<b>Compliance Project:</b> Δ Yes Δ No		POF: [Blank]	Purchase Order not required	Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - H2SO4 F - NaOH G - Amoxic H - Acetic Acid I - Ice Water J - DI Water K - EDTA L - EDA M - Hexane N - None O - AHIQ2 P - HI2O4S Q - HI2SO4 R - HI2SO3 S - HI2SO4 T - TSP Dodecylpyridate U - Acetone V - MCAA W - pH 4.5 X - Triana Z - other (specify)			
<b>Sample Identification</b>		Sample Date	Sample Time	Sample Type (G=Comp, G=grab)	Matrix (S=Soil, W=Water, A=Air, O=Other)	Special Instructions/Note:	
B-12 (2.5-4)	09/14/23	1030	G	S	Solid	[Blank]	
B-12 (5-6.5)		1035			Solid	[Blank]	
B-12 (7.5-9)		1041			Solid	[Blank]	
B-12 (10-11.5)		045			Solid	[Blank]	
B-12 (12.5-14)		1050			Solid	[Blank]	
B-12 (15-10.5)		1055			Solid	[Blank]	
B-12 (17.5-19)		110			Solid	[Blank]	
B-12 (20-21.5)		115			Solid	[Blank]	
B-12 (22-0.5-24)		1130			Solid	[Blank]	
B-12 (25-26.5)		1140			Solid	[Blank]	
B-12 (27.5-29)		1145			Solid	[Blank]	
<b>Possible Hazard Identification</b>		<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					
<b>Deliverable Requested:</b> I, II, III, IV, Other (specify)		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months					
<b>Empty Kit Relinquished by:</b>		Date:	Time:	Method of Shipment:			
Relinquished by: [Signature]		Date/Tim: 9/16/23	Time: 0920	Company: GRT			
Relinquished by: [Signature]		Date/Tim: [Blank]	Time: [Blank]	Company: [Blank]			
<b>Custody Seals Intact:</b> Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks: 2.1, 2.4 car + 5.7, 6.5 car [Signature]					

**Eurofins Spokane**  
 11923 East 1st Ave  
 Spokane, WA 99208  
 Phone: 509-824-9200 Fax: 509-824-9290

**Chain of Custody Record**



Environment Testing

<b>Client Information</b>		Client Contact: Austin Orr	Company: GeoEngineers Inc	Address: 523 East Second Ave Spokane, WA 99202	Phone: 509-824-9202	Product Name: Kwik Stop0504-05-07	Site:	Sample: 6911423	Lab P#: Arrington, Rande E	Contract Tracking Method:	COC No: 590-8951-2569 2
<b>Analysis Requested</b>		Due Date Requested:	PWSID:	TAT Requested (days):	Compliance Project: A Yes & No	Purchase Order not required	Product #	8260D, NWTPH_Gr_MS / <b>STEEN</b>	Failure: Rande.Arrington@eurofins.com	State of Order:	Page 2 of 11
<b>Sample Identification</b>		Sample Date	Sample Time	Sample Type (C-Comp, Graph)	Matrix (Metal, Nonmetal, Organic, Inorganic)	Field Filled Sample (Yes or No)	Special Instructions/Note:	Preservation Codes: A - HCL B - HNO3 C - Zn Acetate D - Nitric Acid E - H2SO4 F - HNO3 G - Ascorbic Acid H - Ascorbic Acid I - Isc J - DI Water K - EDTA L - EDTA M - Hexane N - Hexe O - Acetic Acid P - H2O2 Q - H2SO4 R - H2SO4 S - H2SO4 T - TSP Dodecylhydrae U - Acetone V - MCA W - pH 4.5 Y - Triam Z - other (specify)			
<b>Possible Hazard Identification</b>		<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological									
<b>Deliverable Requested:</b> I, II, III, IV, Other (Specify)		<b>Sample Disposal:</b> (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months									
<b>Empty Kit Relinquished by:</b>		<b>Special Instructions/OC Requirements:</b>									
<b>Relinquished by:</b> Rande Arrington		Date:	<b>Method of Shipment:</b>								
<b>Relinquished by:</b> Rande Arrington		Date:	<b>Received by:</b> Rande Arrington								
<b>Relinquished by:</b> Rande Arrington		Date:	<b>Received by:</b> Rande Arrington								
<b>Custody Seal Intact:</b> A Yes A No		<b>Custody Seal No.:</b>		<b>Cooler Temperature:</b> 2.1, 2.9, 5.7, 10.0, 10.0		<b>Company:</b> GeoEngineers Inc					

**Eurofins Spokane**  
 11922 East 1st Ave  
 Spokane, WA 99208  
 Phone: 509-824-9200 Fax: 509-924-9280

**Chain of Custody Record**



Environment Testing

<b>Client Information</b>		Client Contact: Justin Orr	Sample: 1st 1st	Lab PK: Arrington, Rande E	State of Origin:
Company: GeoEngineers Inc		Address: 523 East Second Ave	PWSID:	State of Origin:	CCC No: 590-8951-2589.4
City: Spokane		State, Zip: WA, 99202	TAT Requested (days):	Page: 4 of 11	Job #:
Phone: WA, 99202		Compliance Project: A Yes & No	Purchase Order not required	Preservation Codes:	
Email: jorr@geoengineers.com		Project Name: Kwik Stop/0504-05-07	Project #:	A - HCL	
Project Name: Kwik Stop/0504-05-07		Project #:	SSOWR:	B - HCl	
Site:		Project #:		C - 20 Acetic	
		Project #:		D - Nitric Acid	
		Project #:		E - Nitric Acid	
		Project #:		F - Nitric Acid	
		Project #:		G - Acetic Acid	
		Project #:		H - Acetic Acid	
		Project #:		I - Ice	
		Project #:		J - DI Water	
		Project #:		K - EDTA	
		Project #:		L - EDTA	
		Project #:		M - Heane	
		Project #:		N - None	
		Project #:		O - Asst/2	
		Project #:		P - NiCO3	
		Project #:		Q - NiSO4	
		Project #:		R - NiSO4	
		Project #:		S - NiSO4	
		Project #:		T - TSP Dodecylsulfate	
		Project #:		U - Asst/4	
		Project #:		V - NiCA	
		Project #:		W - PH 4-5	
		Project #:		X - Tiron	
		Project #:		Y - Tiron	
		Project #:		Z - other (specify)	
		Project #:		Other:	

Sample Identification	Sample Date	Sample Time	Sample Type (Concn, Gr/Grain, etc)	Matrix (Asst, NiCO3, NiSO4, etc)	Field Filtered Sample (Yes/No)	Analysis Requested	Special Instructions/Note
MW-3: 091523	09/17/23	0855	G	Asst/4	X	6260D, NWTPH_Gr_MS	1/25 TEXN
MW-9: 091523		1002	M Solid	Asst/4	X	9060A - Standard Soil TOC	
MW-10: 091523		1223	M Solid	Asst/4	X	Moisture - Local Method	
MW-11: 091523		1139	V Asst/4	Asst/4	X	6260D, NWTPH_Gr_MS	
MW-15: 091523		1315	V Solid	Asst/4	X	200.8_CWA - Total Iron & Manganese	
MW-18: 091523		1051	V Solid	Asst/4	X	200.8_CWA - Diss Iron & Manganese	

<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological	<input type="checkbox"/> Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For	<input type="checkbox"/> Empty Kit Relinquished by:
---	---	---

Relinquished by: <i>Carl Peterson</i>	Date: 09/20/23	Time: 09:30	Company: <i>GET</i>
Relinquished by: <i>[Signature]</i>	Date: 09/20/23	Time: 09:30	Company: <i>GET</i>
Relinquished by: <i>[Signature]</i>	Date: 09/20/23	Time: 09:23	Company: <i>GET</i>

**Chain of Custody Record**



**Client Information (Sub Contract Lab)**  
 Client Contact: Shipping/Receiving  
 Company: TestAmerica Laboratories, Inc.  
 Address: 4955 Yarrow Street, Anvada, CO, 80002  
 Phone: 303-736-0100(Tel) 303-431-7171(Fax)  
 Email: Kwik Stop/0504-05-07 Site:  
 Project #: 59002658  
 SOW#:

**Sampler:** Lab PW: Arrington, Randee E  
 Phone: Rande.Arrington@et.eurofins.com  
 E-Mail: Washington  
 Carrier Tracking No(s): 590-8261.1  
 Page: Page 1 of 1  
 Job #: 590-21723-1

**Due Date Requested:** 10/2/2023  
**TAT Requested (days):**

**Accreditations Required (See note):** State Program - Washington

**Analysis Requested:**

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=water/oil, BT=BTISUB, A=Air)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MMSD (Yes or No)	RSK_1751 (MOD) Methane	Total Number of Containers	Special Instructions/Note:
MW-3-091523 (590-21723-24)	9/15/23	09:55 Pacific		Water		X	X		3	
MW-9-091523 (590-21723-25)	9/15/23	10:02 Pacific		Water		X	X		3	
MW-18-091523 (590-21723-29)	9/15/23	10:57 Pacific		Water		X	X		3	

**Preservation Codes:**  
 A - HCL  
 B - NaOH  
 C - Zn Acetate  
 D - Nitric Acid  
 E - NaHSO4  
 F - MeOH  
 G - Amchlor  
 H - Ascorbic Acid  
 I - Ice  
 J - DI Water  
 K - EDTA  
 L - EDA  
 Other:  
 M - Hexane  
 N - None  
 O - AsNaO2  
 P - Na2O4S  
 Q - Na2SO3  
 R - Na2S2O3  
 S - H2SO4  
 T - TSP Dodecahydrate  
 U - Acetone  
 V - MCAA  
 W - pH 4-5  
 Y - Trizma  
 Z - other (specify)

**Special Instructions/Note:**

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northwest, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northwest, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northwest, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northwest, LLC.

**Possible Hazard Identification**  
 Unconfirmed  
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2  
 Empty Kit Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Relinquished by: *[Signature]* Date: 9/19/23 14:55  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Custody Seals Intact: \_\_\_\_\_ Cooler Temperature(s) °C and Other Remarks: \_\_\_\_\_  
 Δ Yes Δ No

**Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)**  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months  
 Special Instructions/QC Requirements:

**Method of Shipment:** \_\_\_\_\_  
**Received by:** \_\_\_\_\_ Date/Time: \_\_\_\_\_  
**Received by:** \_\_\_\_\_ Date/Time: \_\_\_\_\_  
**Received by:** \_\_\_\_\_ Date/Time: \_\_\_\_\_  
**Company:** EEC 880  
**Company:** \_\_\_\_\_  
**Company:** \_\_\_\_\_



**Eurofins Spokane**

11922 East 1st Ave  
 Spokane, WA 99206  
 Phone: 509-924-9200 Fax: 509-924-9290

**Chain of Custody Record**



eurofins | Environment Testing

<b>Client Information (Sub Contract Lab)</b>		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:		
Client Contact: Shipping/Receiving		Phone:	Arrington, Randee E		590-8256.1		
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note): State Program - Washington			Page: Page 1 of 1		
Address: 5755 8th Street East,		Due Date Requested: 10/2/2023	<b>Analysis Requested</b>				
City: Tacoma		TAT Requested (days):					
State, Zip: WA, 98424		PO #:	Field Filled Samples (Yes or No)	Perform MS/MSD (Yes or No)	200.0_CWA/200.8_P_TOT (MOD) Total Iron & Manganese		
Phone: 253-922-2310(Tel)		WO #:				200.8_CWA/FILTRATION (MOD) Diss Iron & Manganese	5310C/ Total Organic Carbon
Email:		Project #: 59002658	Total Number of Containers	Preservation Codes:			
Project Name: Kwik Stop/0504-05-07		SSOW#:		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)	
Site:		Other:					
<b>Sample Identification - Client ID (Lab ID)</b>		<b>Sample Date</b>	<b>Sample Time</b>	<b>Sample Type (C=comp, G=grab)</b>	<b>Matrix (W=water, S=solid, O=waste/oil, BT=Tablet, A=Air)</b>	<b>Preservation Code</b>	<b>Special Instructions/Note:</b>
MW-3:091523 (590-21723-24)	9/15/23	08:55 Pacific	Water	X X X			3
MW-9:091523 (590-21723-25)	9/15/23	10:02 Pacific	Water	X X X			3
MW-18:091523 (590-21723-29)	9/15/23	10:57 Pacific	Water	X X X			3

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northwest, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northwest, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northwest, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northwest, LLC.

<b>Possible Hazard Identification</b>		<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>	
Unconfirmed		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Deliverable Requested: I, II, III, IV, Other (specify)		Primary Deliverable Rank: 2	
Special Instructions/QC Requirements:			
Empty Kit Relinquished by:		Date:	Time:
Relinquished by: <i>[Signature]</i>		Date/Time: 9/18/23 14:31	Company: EETN
Relinquished by:		Date/Time:	Company:
Relinquished by:		Date/Time:	Company:
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:	
		Cooler Temperature(s) °C and Other Remarks: 139 0.0/0.3	

**Eurofins Spokane**

11922 East 1st Ave  
 Spokane, WA 99206  
 Phone: 509-924-9200 Fax: 509-924-9290

**Chain of Custody Record**



Environment Testing

<b>Client Information (Sub Contract Lab)</b>			Sampler:			Lab PM:			Carrier Tracking No(s):			COC No:											
Client Contact: Shipping/Receiving			Phone:			Arrington, Randee E			E-Mail: Randee.Arrington@et.eurofinsus.com			State of Origin: Washington			590-8256.1								
Company: Eurofins Environment Testing Northwest			Address: 5755 8th Street East,			Due Date Requested: 10/2/2023			Accreditations Required (See note): State Program - Washington			Job #: 590-21723-1			Page: Page 1 of 1								
City: Tacoma			TAT Requested (days):			<b>Analysis Requested</b>			Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 200.8_CWA/200.8_P_TOT (MOO) Total Iron & Manganese 200.8_CWA/FILTRATION (MOD) Diss Iron & Manganese 5310C/ Total Organic Carbon			Total Number of Containers			<b>Preservation Codes:</b> A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Y - Trizma Z - other (specify)			Other:					
State, Zip: WA, 98424			PO #:												Project Name: Kwik Stop/0504-05-07			Project #: 59002658			Special Instructions/Note:		
Phone: 253-922-2310(Tel)			WO #:												Site:			SSOW#:					
Email:			Sample Date												Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)		Preservation Code		
Project Name: Kwik Stop/0504-05-07			Sample Date			Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)		Preservation Code											
Site:			Sample Date			Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)		Preservation Code											
MW-3:091523 (590-21723-24)			9/15/23			08:55 Pacific		Water				3											
MW-9:091523 (590-21723-25)			9/15/23			10:02 Pacific		Water				3											
MW-18:091523 (590-21723-29)			9/15/23			10:57 Pacific		Water				3											

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northwest, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northwest, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northwest, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northwest, LLC.

<b>Possible Hazard Identification</b>				<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>			
Unconfirmed				<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For                    Months			
Deliverable Requested: I, II, III, IV, Other (specify)				Primary Deliverable Rank: 2			
Empty Kit Relinquished by:				Special Instructions/QC Requirements:			
Relinquished by:		Date/Time:		Received by:		Date/Time:	
		9/18/23 14:31				9/19/23 09:25	
Relinquished by:		Date/Time:		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Received by:		Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No				Custody Seal No.:			
				Cooler Temperature(s) °C and Other Remarks: 189 0.0/0.3			

# Chain of Custody Record



<b>Client Information (Sub Contract Lab)</b>		Sampler:	Lab PM:		Carrier Tracking No(s):	COC No:		
Client Contact:		Phone:	Arrington, Randee E			590-8262.1		
Shipping/Receiving		E-Mail:		State of Origin:	Page:			
Company:		Randee.Arrington@et.eurofinsus.com		Washington	Page 1 of 1			
Eurofins Environment Testing Northwest,				Accreditations Required (See note):		Job #:		
Address:				State Program - Washington		590-21723-1		
5755 8th Street East,		Due Date Requested:		<b>Analysis Requested</b>			<b>Preservation Codes:</b> A - HCL                  M - Hexane B - NaOH                N - None C - Zn Acetate         O - AsNaO2 D - Nitric Acid        P - Na2O4S E - NaHSO4            Q - Na2SO3 F - MeOH                R - Na2S2O3 G - Amchlora           S - H2SO4 H - Ascorbic Acid     T - TSP Dodecahydrate I - Ice                     U - Acetone J - DI Water            V - MCAA K - EDTA                W - pH 4-5 L - EDA                  Y - Trizma Z - other (specify)	
City:		TAT Requested (days):						
Tacoma								
State, Zip:		PO #:						
WA, 98424								
Project Name:		Project #:		Field Filtered Sample (Yes or No)		Total Number of Containers		
Kwik Stop/0504-05-07		59002658						
Site:		SSOW#:		Perform MS/MSD (Yes or No)		9060A Standard Soil TOC		
<b>Sample Identification - Client ID (Lab ID)</b>			<b>Sample Date</b>	<b>Sample Time</b>	<b>Sample Type (C=comp, G=grab)</b>	<b>Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)</b>		
				<b>Preservation Code</b>				<b>Special Instructions/Note:</b>
B-12 (5-6.5) (590-21723-2)		9/14/23	10:35 Pacific	Solid		X	1	
B-11 (5-6.5) (590-21723-31)		9/14/23	13:45 Pacific	Solid		X	1	
B-8 (40-41.5) (590-21723-73)		9/13/23	14:00 Pacific	Solid		X	1	
B-9 (40-41.5) (590-21723-75)		9/13/23	15:50 Pacific	Solid		X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northwest, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northwest, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northwest, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northwest, LLC.

<b>Possible Hazard Identification</b>		<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>	
Unconfirmed		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Deliverable Requested: I, II, III, IV, Other (specify)        Primary Deliverable Rank: 2		Special Instructions/QC Requirements:	

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:	
Relinquished by: <i>[Signature]</i>		Date/Time: 9/19/23 15:10	Company: <i>GETSO</i>	Received by: <i>[Signature]</i>	Date/Time: 9/20/23 0815
Relinquished by:		Date/Time:	Company:	Received by:	Date/Time:
Relinquished by:		Date/Time:	Company:	Received by:	Date/Time:

Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: <i>189 20/23</i>
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# Login Sample Receipt Checklist

Client: GeoEngineers Inc

Job Number: 590-21723-1

**Login Number: 21723**

**List Source: Eurofins Spokane**

**List Number: 1**

**Creator: Morris, Mackenzie 1**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# Login Sample Receipt Checklist

Client: GeoEngineers Inc

Job Number: 590-21723-1

**Login Number: 21723**  
**List Number: 3**  
**Creator: Little, Matthew L**

**List Source: Eurofins Denver**  
**List Creation: 09/20/23 01:31 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# Login Sample Receipt Checklist

Client: GeoEngineers Inc

Job Number: 590-21723-1

**Login Number: 21723**  
**List Number: 2**  
**Creator: Groves, Elizabeth**

**List Source: Eurofins Seattle**  
**List Creation: 09/19/23 03:18 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	IR9 0.0c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# Login Sample Receipt Checklist

Client: GeoEngineers Inc

Job Number: 590-21723-1

**Login Number: 21723**  
**List Number: 4**  
**Creator: Groves, Elizabeth**

**List Source: Eurofins Seattle**  
**List Creation: 09/20/23 01:15 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	IR9 2.0c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Justin Orr  
GeoEngineers Inc  
523 East Second Ave  
Spokane, Washington 99202

Generated 12/16/2023 1:28:40 PM Revision 1

**JOB DESCRIPTION**

Ione Airport Kwik Stop/0504-058-07

**JOB NUMBER**

590-22374-1



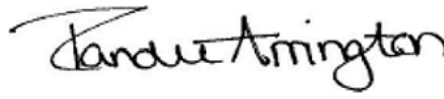
# Eurofins Spokane

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northwest, LLC Project Manager.

## Authorization



Generated  
12/16/2023 1:28:40 PM  
Revision 1

Authorized for release by  
Randee Arrington, Business Unit Manager  
[Randee.Arrington@et.eurofinsus.com](mailto:Randee.Arrington@et.eurofinsus.com)  
(509)924-9200



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# Case Narrative

Client: GeoEngineers Inc  
Project/Site: Lone Airport Kwik Stop/0504-058-07

Job ID: 590-22374-1

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## Job ID: 590-22374-1

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### Laboratory: Eurofins Spokane

#### Narrative

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#### Job Narrative 590-22374-1

#### REVISION

The report being provided is a revision of the original report sent on 12/14/2023. The report (revision 1) is being revised due to the following: the project description was revised per the client's request.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

#### Receipt

The samples were received on 11/30/2023 3:14 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.8°C

#### GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) associated with batch 590-45001 recovered above the upper control limit for 2,2-Dichloropropane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260D: The laboratory control sample (LCS) for analytical batch 590-45001 recovered outside control limits for the following analytes: 2,2-Dichloropropane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

#### GC VOA

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

#### HPLC/IC

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

#### Metals

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

#### General Chemistry

Method 2320B: The method blank for analytical batch 590-45031 contained Alkalinity and Bicarbonate Alkalinity as CaCO<sub>3</sub> above the method detection limit (MDL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

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

# Sample Summary

Client: GeoEngineers Inc  
Project/Site: Lone Airport Kwik Stop/0504-058-07

Job ID: 590-22374-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-22374-1	MW-3: 113023	Water	11/30/23 10:45	11/30/23 15:14
590-22374-2	MW-8: 113023	Water	11/30/23 12:15	11/30/23 15:14
590-22374-3	MW-9: 113023	Water	11/30/23 09:10	11/30/23 15:14
590-22374-4	MW-10: 112923	Water	11/29/23 13:50	11/30/23 15:14
590-22374-5	MW-11: 112923	Water	11/29/23 12:50	11/30/23 15:14
590-22374-6	MW-15: 112923	Water	11/29/23 11:20	11/30/23 15:14
590-22374-7	MW-18: 112923	Water	11/29/23 14:50	11/30/23 15:14
590-22374-8	DUP 1: 113023	Water	11/30/23 09:00	11/30/23 15:14

1

2

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11

12

# Definitions/Glossary

Client: GeoEngineers Inc  
Project/Site: Ione Airport Kwik Stop/0504-058-07

Job ID: 590-22374-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## 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
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

# Client Sample Results

Client: GeoEngineers Inc  
 Project/Site: Lone Airport Kwik Stop/0504-058-07

Job ID: 590-22374-1

**Client Sample ID: MW-3: 113023**

**Lab Sample ID: 590-22374-1**

**Date Collected: 11/30/23 10:45**

**Matrix: Water**

**Date Received: 11/30/23 15:14**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.48	ug/L			12/08/23 15:13	1
1,1,1-Trichloroethane	ND		1.0	0.17	ug/L			12/08/23 15:13	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.32	ug/L			12/08/23 15:13	1
1,1,2-Trichloroethane	ND		2.0	0.43	ug/L			12/08/23 15:13	1
1,1-Dichloroethane	ND		1.0	0.29	ug/L			12/08/23 15:13	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			12/08/23 15:13	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			12/08/23 15:13	1
1,2,3-Trichlorobenzene	ND		1.0	0.33	ug/L			12/08/23 15:13	1
1,2,3-Trichloropropane	ND		2.0	0.50	ug/L			12/08/23 15:13	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L			12/08/23 15:13	1
<b>1,2,4-Trimethylbenzene</b>	<b>5.0</b>		1.0	0.31	ug/L			12/08/23 15:13	1
<b>1,2-Dibromo-3-Chloropropane</b>	<b>2.6</b>	<b>J</b>	10	1.5	ug/L			12/08/23 15:13	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			12/08/23 15:13	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			12/08/23 15:13	1
1,2-Dichloroethane	ND		1.0	0.31	ug/L			12/08/23 15:13	1
1,2-Dichloropropane	ND		1.0	0.23	ug/L			12/08/23 15:13	1
<b>1,3,5-Trimethylbenzene</b>	<b>41</b>		1.0	0.32	ug/L			12/08/23 15:13	1
1,3-Dichlorobenzene	ND		1.0	0.14	ug/L			12/08/23 15:13	1
1,3-Dichloropropane	ND		2.0	0.21	ug/L			12/08/23 15:13	1
1,4-Dichlorobenzene	ND		1.0	0.28	ug/L			12/08/23 15:13	1
2,2-Dichloropropane	ND	*+	2.0	0.66	ug/L			12/08/23 15:13	1
2-Chlorotoluene	ND		1.0	0.36	ug/L			12/08/23 15:13	1
4-Chlorotoluene	ND		1.0	0.26	ug/L			12/08/23 15:13	1
Benzene	ND		0.40	0.093	ug/L			12/08/23 15:13	1
Bromobenzene	ND		1.0	0.28	ug/L			12/08/23 15:13	1
Bromochloromethane	ND		2.0	0.44	ug/L			12/08/23 15:13	1
Bromodichloromethane	ND		1.0	0.29	ug/L			12/08/23 15:13	1
Bromoform	ND		5.0	0.66	ug/L			12/08/23 15:13	1
Bromomethane	ND		5.0	0.76	ug/L			12/08/23 15:13	1
Carbon tetrachloride	ND		1.0	0.40	ug/L			12/08/23 15:13	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/08/23 15:13	1
<b>Chloroethane</b>	<b>1.5</b>	<b>J</b>	2.0	0.40	ug/L			12/08/23 15:13	1
Chloroform	ND		1.0	0.24	ug/L			12/08/23 15:13	1
<b>Chloromethane</b>	<b>0.57</b>	<b>J</b>	3.0	0.50	ug/L			12/08/23 15:13	1
cis-1,2-Dichloroethene	ND		1.0	0.23	ug/L			12/08/23 15:13	1
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			12/08/23 15:13	1
Dibromochloromethane	ND		2.0	0.33	ug/L			12/08/23 15:13	1
Dibromomethane	ND		2.0	0.50	ug/L			12/08/23 15:13	1
Dichlorodifluoromethane	ND		2.0	0.64	ug/L			12/08/23 15:13	1
<b>Ethylbenzene</b>	<b>1.9</b>		1.0	0.20	ug/L			12/08/23 15:13	1
Hexachlorobutadiene	ND		2.0	0.21	ug/L			12/08/23 15:13	1
<b>Isopropylbenzene</b>	<b>3.1</b>		1.0	0.24	ug/L			12/08/23 15:13	1
<b>m,p-Xylene</b>	<b>5.1</b>		2.0	0.28	ug/L			12/08/23 15:13	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/08/23 15:13	1
Methylene Chloride	ND		5.0	2.2	ug/L			12/08/23 15:13	1
<b>Naphthalene</b>	<b>3.6</b>		2.0	0.63	ug/L			12/08/23 15:13	1
<b>n-Butylbenzene</b>	<b>5.7</b>		1.0	0.20	ug/L			12/08/23 15:13	1
<b>N-Propylbenzene</b>	<b>5.6</b>		1.0	0.25	ug/L			12/08/23 15:13	1
o-Xylene	ND		1.0	0.16	ug/L			12/08/23 15:13	1

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# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Lone Airport Kwik Stop/0504-058-07

Job ID: 590-22374-1

**Client Sample ID: MW-3: 113023**

**Lab Sample ID: 590-22374-1**

Date Collected: 11/30/23 10:45

Matrix: Water

Date Received: 11/30/23 15:14

### Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	1.9		1.0	0.27	ug/L			12/08/23 15:13	1
sec-Butylbenzene	2.7		1.0	0.22	ug/L			12/08/23 15:13	1
Styrene	ND		1.0	0.24	ug/L			12/08/23 15:13	1
tert-Butylbenzene	ND		1.0	0.12	ug/L			12/08/23 15:13	1
Tetrachloroethene	ND		1.0	0.22	ug/L			12/08/23 15:13	1
Toluene	ND		1.0	0.31	ug/L			12/08/23 15:13	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			12/08/23 15:13	1
trans-1,3-Dichloropropene	ND		1.0	0.45	ug/L			12/08/23 15:13	1
Trichloroethene	ND		1.0	0.20	ug/L			12/08/23 15:13	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			12/08/23 15:13	1
Vinyl chloride	ND		0.40	0.13	ug/L			12/08/23 15:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		80 - 120		12/08/23 15:13	1
4-Bromofluorobenzene (Surr)	101		76 - 120		12/08/23 15:13	1
Dibromofluoromethane (Surr)	103		80 - 123		12/08/23 15:13	1
Toluene-d8 (Surr)	95		80 - 120		12/08/23 15:13	1

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	540		150	54	ug/L			12/08/23 15:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		68.7 - 141		12/08/23 15:13	1

### Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		5.0	0.63	ug/L			12/02/23 22:04	1

### Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	64		0.80	0.42	mg/L			12/01/23 13:55	1
Nitrate as N	0.32		0.20	0.057	mg/L			12/01/23 13:55	1
Nitrite as N	ND		0.20	0.069	mg/L			12/01/23 13:55	1
Sulfate	14		0.50	0.13	mg/L			12/01/23 13:55	1

### Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.018		0.0050	0.0010	mg/L		12/06/23 16:38	12/08/23 09:24	5
Cadmium	0.00031	J	0.0020	0.00019	mg/L		12/06/23 16:38	12/08/23 09:24	5
Iron	9.7		0.50	0.067	mg/L		12/06/23 16:38	12/08/23 09:24	5
Lead	0.0014	J	0.0020	0.00020	mg/L		12/06/23 16:38	12/08/23 09:24	5
Manganese	0.69		0.010	0.0023	mg/L		12/06/23 16:38	12/08/23 09:24	5
Zinc	0.019	J	0.035	0.0046	mg/L		12/06/23 16:38	12/08/23 09:24	5

### Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0011	J	0.0050	0.0010	mg/L		12/08/23 15:08	12/11/23 16:29	5
Cadmium	ND		0.0020	0.00019	mg/L		12/08/23 15:08	12/11/23 16:29	5
Iron	0.085	J	0.50	0.067	mg/L		12/08/23 15:08	12/11/23 16:29	5
Lead	ND		0.0020	0.00020	mg/L		12/08/23 15:08	12/11/23 16:29	5

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# Client Sample Results

Client: GeoEngineers Inc  
 Project/Site: Lone Airport Kwik Stop/0504-058-07

Job ID: 590-22374-1

**Client Sample ID: MW-3: 113023**

**Lab Sample ID: 590-22374-1**

Date Collected: 11/30/23 10:45

Matrix: Water

Date Received: 11/30/23 15:14

**Method: SW846 6020B - Metals (ICP/MS) - Dissolved (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.70		0.010	0.0023	mg/L		12/08/23 15:08	12/11/23 16:29	5
Zinc	ND		0.035	0.0046	mg/L		12/08/23 15:08	12/11/23 16:29	5

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	290	B	20	5.0	mg/L			12/11/23 11:29	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	290	B	20	5.0	mg/L			12/11/23 11:29	1
Total Dissolved Solids (SM 2540C)	470		25	13	mg/L			12/04/23 09:53	1
Total Organic Carbon - Duplicates (SM 5310B)	2.7		1.0	0.35	mg/L			12/09/23 06:59	1

**Client Sample ID: MW-8: 113023**

**Lab Sample ID: 590-22374-2**

Date Collected: 11/30/23 12:15

Matrix: Water

Date Received: 11/30/23 15:14

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.48	ug/L			12/08/23 15:56	1
1,1,1-Trichloroethane	ND		1.0	0.17	ug/L			12/08/23 15:56	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.32	ug/L			12/08/23 15:56	1
1,1,2-Trichloroethane	ND		2.0	0.43	ug/L			12/08/23 15:56	1
1,1-Dichloroethane	ND		1.0	0.29	ug/L			12/08/23 15:56	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			12/08/23 15:56	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			12/08/23 15:56	1
1,2,3-Trichlorobenzene	ND		1.0	0.33	ug/L			12/08/23 15:56	1
1,2,3-Trichloropropane	ND		2.0	0.50	ug/L			12/08/23 15:56	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L			12/08/23 15:56	1
<b>1,2,4-Trimethylbenzene</b>	<b>19</b>		1.0	0.31	ug/L			12/08/23 15:56	1
1,2-Dibromo-3-Chloropropane	ND		10	1.5	ug/L			12/08/23 15:56	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			12/08/23 15:56	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			12/08/23 15:56	1
1,2-Dichloroethane	ND		1.0	0.31	ug/L			12/08/23 15:56	1
1,2-Dichloropropane	ND		1.0	0.23	ug/L			12/08/23 15:56	1
<b>1,3,5-Trimethylbenzene</b>	<b>16</b>		1.0	0.32	ug/L			12/08/23 15:56	1
1,3-Dichlorobenzene	ND		1.0	0.14	ug/L			12/08/23 15:56	1
1,3-Dichloropropane	ND		2.0	0.21	ug/L			12/08/23 15:56	1
1,4-Dichlorobenzene	ND		1.0	0.28	ug/L			12/08/23 15:56	1
2,2-Dichloropropane	ND	+	2.0	0.66	ug/L			12/08/23 15:56	1
2-Chlorotoluene	ND		1.0	0.36	ug/L			12/08/23 15:56	1
4-Chlorotoluene	ND		1.0	0.26	ug/L			12/08/23 15:56	1
<b>Benzene</b>	<b>0.67</b>		0.40	0.093	ug/L			12/08/23 15:56	1
Bromobenzene	ND		1.0	0.28	ug/L			12/08/23 15:56	1
Bromochloromethane	ND		2.0	0.44	ug/L			12/08/23 15:56	1
<b>Bromodichloromethane</b>	<b>0.29</b>	<b>J</b>	1.0	0.29	ug/L			12/08/23 15:56	1
Bromoform	ND		5.0	0.66	ug/L			12/08/23 15:56	1
Bromomethane	ND		5.0	0.76	ug/L			12/08/23 15:56	1
Carbon tetrachloride	ND		1.0	0.40	ug/L			12/08/23 15:56	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/08/23 15:56	1
Chloroethane	ND		2.0	0.40	ug/L			12/08/23 15:56	1
Chloroform	ND		1.0	0.24	ug/L			12/08/23 15:56	1

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# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Lone Airport Kwik Stop/0504-058-07

Job ID: 590-22374-1

**Client Sample ID: MW-8: 113023**

**Lab Sample ID: 590-22374-2**

Date Collected: 11/30/23 12:15

Matrix: Water

Date Received: 11/30/23 15:14

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		3.0	0.50	ug/L			12/08/23 15:56	1
cis-1,2-Dichloroethene	ND		1.0	0.23	ug/L			12/08/23 15:56	1
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			12/08/23 15:56	1
Dibromochloromethane	ND		2.0	0.33	ug/L			12/08/23 15:56	1
Dibromomethane	ND		2.0	0.50	ug/L			12/08/23 15:56	1
Dichlorodifluoromethane	ND		2.0	0.64	ug/L			12/08/23 15:56	1
<b>Ethylbenzene</b>	<b>0.48</b>	<b>J</b>	1.0	0.20	ug/L			12/08/23 15:56	1
Hexachlorobutadiene	ND		2.0	0.21	ug/L			12/08/23 15:56	1
<b>Isopropylbenzene</b>	<b>0.69</b>	<b>J</b>	1.0	0.24	ug/L			12/08/23 15:56	1
<b>m,p-Xylene</b>	<b>1.8</b>	<b>J</b>	2.0	0.28	ug/L			12/08/23 15:56	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/08/23 15:56	1
Methylene Chloride	ND		5.0	2.2	ug/L			12/08/23 15:56	1
<b>Naphthalene</b>	<b>0.82</b>	<b>J</b>	2.0	0.63	ug/L			12/08/23 15:56	1
<b>n-Butylbenzene</b>	<b>0.83</b>	<b>J</b>	1.0	0.20	ug/L			12/08/23 15:56	1
<b>N-Propylbenzene</b>	<b>2.4</b>		1.0	0.25	ug/L			12/08/23 15:56	1
o-Xylene	ND		1.0	0.16	ug/L			12/08/23 15:56	1
<b>p-Isopropyltoluene</b>	<b>0.70</b>	<b>J</b>	1.0	0.27	ug/L			12/08/23 15:56	1
<b>sec-Butylbenzene</b>	<b>0.83</b>	<b>J</b>	1.0	0.22	ug/L			12/08/23 15:56	1
Styrene	ND		1.0	0.24	ug/L			12/08/23 15:56	1
<b>tert-Butylbenzene</b>	<b>2.8</b>		1.0	0.12	ug/L			12/08/23 15:56	1
Tetrachloroethene	ND		1.0	0.22	ug/L			12/08/23 15:56	1
Toluene	ND		1.0	0.31	ug/L			12/08/23 15:56	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			12/08/23 15:56	1
trans-1,3-Dichloropropene	ND		1.0	0.45	ug/L			12/08/23 15:56	1
Trichloroethene	ND		1.0	0.20	ug/L			12/08/23 15:56	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			12/08/23 15:56	1
Vinyl chloride	ND		0.40	0.13	ug/L			12/08/23 15:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		80 - 120		12/08/23 15:56	1
4-Bromofluorobenzene (Surr)	99		76 - 120		12/08/23 15:56	1
Dibromofluoromethane (Surr)	99		80 - 123		12/08/23 15:56	1
Toluene-d8 (Surr)	96		80 - 120		12/08/23 15:56	1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Gasoline</b>	<b>380</b>		150	54	ug/L			12/08/23 15:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		68.7 - 141		12/08/23 15:56	1

## Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Methane</b>	<b>3.1</b>	<b>J</b>	5.0	0.63	ug/L			12/02/23 22:17	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>16</b>		0.80	0.42	mg/L			12/01/23 14:05	1
<b>Nitrate as N</b>	<b>1.7</b>		0.20	0.057	mg/L			12/01/23 14:05	1
<b>Nitrite as N</b>	<b>1.2</b>		0.20	0.069	mg/L			12/01/23 14:05	1
<b>Sulfate</b>	<b>430</b>		5.0	1.3	mg/L			12/05/23 15:07	10

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# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Lone Airport Kwik Stop/0504-058-07

Job ID: 590-22374-1

**Client Sample ID: MW-8: 113023**

**Lab Sample ID: 590-22374-2**

Date Collected: 11/30/23 12:15

Matrix: Water

Date Received: 11/30/23 15:14

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0060		0.0050	0.0010	mg/L		12/06/23 16:38	12/08/23 09:27	5
Cadmium	0.00019	J	0.0020	0.00019	mg/L		12/06/23 16:38	12/08/23 09:27	5
Iron	1.8		0.50	0.067	mg/L		12/06/23 16:38	12/08/23 09:27	5
Lead	0.00067	J	0.0020	0.00020	mg/L		12/06/23 16:38	12/08/23 09:27	5
Manganese	1.2		0.010	0.0023	mg/L		12/06/23 16:38	12/08/23 09:27	5
Zinc	0.0055	J	0.035	0.0046	mg/L		12/06/23 16:38	12/08/23 09:27	5

**Method: SW846 6020B - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0014	J	0.0050	0.0010	mg/L		12/08/23 15:08	12/11/23 16:32	5
Cadmium	ND		0.0020	0.00019	mg/L		12/08/23 15:08	12/11/23 16:32	5
Iron	0.085	J	0.50	0.067	mg/L		12/08/23 15:08	12/11/23 16:32	5
Lead	ND		0.0020	0.00020	mg/L		12/08/23 15:08	12/11/23 16:32	5
Manganese	1.6		0.010	0.0023	mg/L		12/08/23 15:08	12/11/23 16:32	5
Zinc	0.0055	J	0.035	0.0046	mg/L		12/08/23 15:08	12/11/23 16:32	5

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	420	B	20	5.0	mg/L			12/11/23 11:29	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	420	B	20	5.0	mg/L			12/11/23 11:29	1
Total Dissolved Solids (SM 2540C)	800		25	13	mg/L			12/04/23 09:53	1
Total Organic Carbon - Duplicates (SM 5310B)	3.4		1.0	0.35	mg/L			12/08/23 23:03	1

**Client Sample ID: MW-9: 113023**

**Lab Sample ID: 590-22374-3**

Date Collected: 11/30/23 09:10

Matrix: Water

Date Received: 11/30/23 15:14

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.48	ug/L			12/08/23 16:39	1
1,1,1-Trichloroethane	ND		1.0	0.17	ug/L			12/08/23 16:39	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.32	ug/L			12/08/23 16:39	1
1,1,2-Trichloroethane	ND		2.0	0.43	ug/L			12/08/23 16:39	1
1,1-Dichloroethane	ND		1.0	0.29	ug/L			12/08/23 16:39	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			12/08/23 16:39	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			12/08/23 16:39	1
1,2,3-Trichlorobenzene	ND		1.0	0.33	ug/L			12/08/23 16:39	1
1,2,3-Trichloropropane	ND		2.0	0.50	ug/L			12/08/23 16:39	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L			12/08/23 16:39	1
1,2,4-Trimethylbenzene	ND		1.0	0.31	ug/L			12/08/23 16:39	1
1,2-Dibromo-3-Chloropropane	ND		10	1.5	ug/L			12/08/23 16:39	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			12/08/23 16:39	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			12/08/23 16:39	1
1,2-Dichloroethane	ND		1.0	0.31	ug/L			12/08/23 16:39	1
1,2-Dichloropropane	ND		1.0	0.23	ug/L			12/08/23 16:39	1
1,3,5-Trimethylbenzene	ND		1.0	0.32	ug/L			12/08/23 16:39	1
1,3-Dichlorobenzene	ND		1.0	0.14	ug/L			12/08/23 16:39	1
1,3-Dichloropropane	ND		2.0	0.21	ug/L			12/08/23 16:39	1
1,4-Dichlorobenzene	ND		1.0	0.28	ug/L			12/08/23 16:39	1

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# Client Sample Results

Client: GeoEngineers Inc  
 Project/Site: Lone Airport Kwik Stop/0504-058-07

Job ID: 590-22374-1

**Client Sample ID: MW-9: 113023**

**Lab Sample ID: 590-22374-3**

**Date Collected: 11/30/23 09:10**

**Matrix: Water**

**Date Received: 11/30/23 15:14**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	ND	*+	2.0	0.66	ug/L			12/08/23 16:39	1
2-Chlorotoluene	ND		1.0	0.36	ug/L			12/08/23 16:39	1
4-Chlorotoluene	ND		1.0	0.26	ug/L			12/08/23 16:39	1
Benzene	ND		0.40	0.093	ug/L			12/08/23 16:39	1
Bromobenzene	ND		1.0	0.28	ug/L			12/08/23 16:39	1
Bromochloromethane	ND		2.0	0.44	ug/L			12/08/23 16:39	1
Bromodichloromethane	ND		1.0	0.29	ug/L			12/08/23 16:39	1
Bromoform	ND		5.0	0.66	ug/L			12/08/23 16:39	1
Bromomethane	ND		5.0	0.76	ug/L			12/08/23 16:39	1
Carbon tetrachloride	ND		1.0	0.40	ug/L			12/08/23 16:39	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/08/23 16:39	1
Chloroethane	ND		2.0	0.40	ug/L			12/08/23 16:39	1
Chloroform	ND		1.0	0.24	ug/L			12/08/23 16:39	1
Chloromethane	ND		3.0	0.50	ug/L			12/08/23 16:39	1
cis-1,2-Dichloroethene	ND		1.0	0.23	ug/L			12/08/23 16:39	1
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			12/08/23 16:39	1
Dibromochloromethane	ND		2.0	0.33	ug/L			12/08/23 16:39	1
Dibromomethane	ND		2.0	0.50	ug/L			12/08/23 16:39	1
Dichlorodifluoromethane	ND		2.0	0.64	ug/L			12/08/23 16:39	1
Ethylbenzene	ND		1.0	0.20	ug/L			12/08/23 16:39	1
Hexachlorobutadiene	ND		2.0	0.21	ug/L			12/08/23 16:39	1
Isopropylbenzene	ND		1.0	0.24	ug/L			12/08/23 16:39	1
m,p-Xylene	ND		2.0	0.28	ug/L			12/08/23 16:39	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/08/23 16:39	1
Methylene Chloride	ND		5.0	2.2	ug/L			12/08/23 16:39	1
Naphthalene	ND		2.0	0.63	ug/L			12/08/23 16:39	1
n-Butylbenzene	ND		1.0	0.20	ug/L			12/08/23 16:39	1
N-Propylbenzene	ND		1.0	0.25	ug/L			12/08/23 16:39	1
o-Xylene	ND		1.0	0.16	ug/L			12/08/23 16:39	1
p-Isopropyltoluene	ND		1.0	0.27	ug/L			12/08/23 16:39	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			12/08/23 16:39	1
Styrene	ND		1.0	0.24	ug/L			12/08/23 16:39	1
tert-Butylbenzene	ND		1.0	0.12	ug/L			12/08/23 16:39	1
Tetrachloroethene	ND		1.0	0.22	ug/L			12/08/23 16:39	1
Toluene	ND		1.0	0.31	ug/L			12/08/23 16:39	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			12/08/23 16:39	1
trans-1,3-Dichloropropene	ND		1.0	0.45	ug/L			12/08/23 16:39	1
Trichloroethene	ND		1.0	0.20	ug/L			12/08/23 16:39	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			12/08/23 16:39	1
Vinyl chloride	ND		0.40	0.13	ug/L			12/08/23 16:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		80 - 120		12/08/23 16:39	1
4-Bromofluorobenzene (Surr)	102		76 - 120		12/08/23 16:39	1
Dibromofluoromethane (Surr)	106		80 - 123		12/08/23 16:39	1
Toluene-d8 (Surr)	104		80 - 120		12/08/23 16:39	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	54	ug/L			12/08/23 16:39	1

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# Client Sample Results

Client: GeoEngineers Inc  
 Project/Site: Lone Airport Kwik Stop/0504-058-07

Job ID: 590-22374-1

**Client Sample ID: MW-9: 113023**

**Lab Sample ID: 590-22374-3**

Date Collected: 11/30/23 09:10

Matrix: Water

Date Received: 11/30/23 15:14

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		68.7 - 141		12/08/23 16:39	1

**Method: RSK-175 - Dissolved Gases (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		5.0	0.63	ug/L			12/02/23 22:31	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20		0.80	0.42	mg/L			12/01/23 14:15	1
Nitrate as N	4.1		0.20	0.057	mg/L			12/01/23 14:15	1
Nitrite as N	ND		0.20	0.069	mg/L			12/01/23 14:15	1
Sulfate	14		0.50	0.13	mg/L			12/01/23 14:15	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0050	0.0010	mg/L		12/06/23 16:38	12/08/23 09:22	5
Cadmium	ND		0.0020	0.00019	mg/L		12/06/23 16:38	12/08/23 09:22	5
Iron	0.11	J	0.50	0.067	mg/L		12/06/23 16:38	12/08/23 09:22	5
Lead	ND		0.0020	0.00020	mg/L		12/06/23 16:38	12/08/23 09:22	5
Manganese	0.080		0.010	0.0023	mg/L		12/06/23 16:38	12/08/23 09:22	5
Zinc	ND		0.035	0.0046	mg/L		12/06/23 16:38	12/08/23 09:22	5

**Method: SW846 6020B - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0050	0.0010	mg/L		12/08/23 15:08	12/11/23 16:21	5
Cadmium	ND		0.0020	0.00019	mg/L		12/08/23 15:08	12/11/23 16:21	5
Iron	ND		0.50	0.067	mg/L		12/08/23 15:08	12/11/23 16:21	5
Lead	ND		0.0020	0.00020	mg/L		12/08/23 15:08	12/11/23 16:21	5
Manganese	ND		0.010	0.0023	mg/L		12/08/23 15:08	12/11/23 16:21	5
Zinc	ND		0.035	0.0046	mg/L		12/08/23 15:08	12/11/23 16:21	5

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	210	B	20	5.0	mg/L			12/11/23 11:29	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	210	B	20	5.0	mg/L			12/11/23 11:29	1
Total Dissolved Solids (SM 2540C)	330		25	13	mg/L			12/04/23 09:53	1
Total Organic Carbon - Duplicates (SM 5310B)	ND		1.0	0.35	mg/L			12/08/23 23:30	1

**Client Sample ID: MW-10: 112923**

**Lab Sample ID: 590-22374-4**

Date Collected: 11/29/23 13:50

Matrix: Water

Date Received: 11/30/23 15:14

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.48	ug/L			12/08/23 17:01	1
1,1,1-Trichloroethane	ND		1.0	0.17	ug/L			12/08/23 17:01	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.32	ug/L			12/08/23 17:01	1
1,1,2-Trichloroethane	ND		2.0	0.43	ug/L			12/08/23 17:01	1
1,1-Dichloroethane	ND		1.0	0.29	ug/L			12/08/23 17:01	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			12/08/23 17:01	1

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# Client Sample Results

Client: GeoEngineers Inc  
 Project/Site: Lone Airport Kwik Stop/0504-058-07

Job ID: 590-22374-1

**Client Sample ID: MW-10: 112923**

**Lab Sample ID: 590-22374-4**

**Date Collected: 11/29/23 13:50**

**Matrix: Water**

**Date Received: 11/30/23 15:14**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	ND		1.0	0.50	ug/L			12/08/23 17:01	1
1,2,3-Trichlorobenzene	ND		1.0	0.33	ug/L			12/08/23 17:01	1
1,2,3-Trichloropropane	ND		2.0	0.50	ug/L			12/08/23 17:01	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L			12/08/23 17:01	1
1,2,4-Trimethylbenzene	ND		1.0	0.31	ug/L			12/08/23 17:01	1
1,2-Dibromo-3-Chloropropane	ND		10	1.5	ug/L			12/08/23 17:01	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			12/08/23 17:01	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			12/08/23 17:01	1
1,2-Dichloroethane	ND		1.0	0.31	ug/L			12/08/23 17:01	1
1,2-Dichloropropane	ND		1.0	0.23	ug/L			12/08/23 17:01	1
1,3,5-Trimethylbenzene	ND		1.0	0.32	ug/L			12/08/23 17:01	1
1,3-Dichlorobenzene	ND		1.0	0.14	ug/L			12/08/23 17:01	1
1,3-Dichloropropane	ND		2.0	0.21	ug/L			12/08/23 17:01	1
1,4-Dichlorobenzene	ND		1.0	0.28	ug/L			12/08/23 17:01	1
2,2-Dichloropropane	ND	*+	2.0	0.66	ug/L			12/08/23 17:01	1
2-Chlorotoluene	ND		1.0	0.36	ug/L			12/08/23 17:01	1
4-Chlorotoluene	ND		1.0	0.26	ug/L			12/08/23 17:01	1
Benzene	ND		0.40	0.093	ug/L			12/08/23 17:01	1
Bromobenzene	ND		1.0	0.28	ug/L			12/08/23 17:01	1
Bromochloromethane	ND		2.0	0.44	ug/L			12/08/23 17:01	1
Bromodichloromethane	ND		1.0	0.29	ug/L			12/08/23 17:01	1
Bromoform	ND		5.0	0.66	ug/L			12/08/23 17:01	1
Bromomethane	ND		5.0	0.76	ug/L			12/08/23 17:01	1
Carbon tetrachloride	ND		1.0	0.40	ug/L			12/08/23 17:01	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/08/23 17:01	1
Chloroethane	ND		2.0	0.40	ug/L			12/08/23 17:01	1
Chloroform	ND		1.0	0.24	ug/L			12/08/23 17:01	1
Chloromethane	ND		3.0	0.50	ug/L			12/08/23 17:01	1
cis-1,2-Dichloroethene	ND		1.0	0.23	ug/L			12/08/23 17:01	1
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			12/08/23 17:01	1
Dibromochloromethane	ND		2.0	0.33	ug/L			12/08/23 17:01	1
Dibromomethane	ND		2.0	0.50	ug/L			12/08/23 17:01	1
Dichlorodifluoromethane	ND		2.0	0.64	ug/L			12/08/23 17:01	1
Ethylbenzene	ND		1.0	0.20	ug/L			12/08/23 17:01	1
Hexachlorobutadiene	ND		2.0	0.21	ug/L			12/08/23 17:01	1
Isopropylbenzene	ND		1.0	0.24	ug/L			12/08/23 17:01	1
m,p-Xylene	ND		2.0	0.28	ug/L			12/08/23 17:01	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/08/23 17:01	1
Methylene Chloride	ND		5.0	2.2	ug/L			12/08/23 17:01	1
Naphthalene	ND		2.0	0.63	ug/L			12/08/23 17:01	1
n-Butylbenzene	ND		1.0	0.20	ug/L			12/08/23 17:01	1
N-Propylbenzene	ND		1.0	0.25	ug/L			12/08/23 17:01	1
o-Xylene	ND		1.0	0.16	ug/L			12/08/23 17:01	1
p-Isopropyltoluene	ND		1.0	0.27	ug/L			12/08/23 17:01	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			12/08/23 17:01	1
Styrene	ND		1.0	0.24	ug/L			12/08/23 17:01	1
tert-Butylbenzene	ND		1.0	0.12	ug/L			12/08/23 17:01	1
Tetrachloroethene	ND		1.0	0.22	ug/L			12/08/23 17:01	1
Toluene	ND		1.0	0.31	ug/L			12/08/23 17:01	1

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# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Lone Airport Kwik Stop/0504-058-07

Job ID: 590-22374-1

**Client Sample ID: MW-10: 112923**

**Lab Sample ID: 590-22374-4**

Date Collected: 11/29/23 13:50

Matrix: Water

Date Received: 11/30/23 15:14

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			12/08/23 17:01	1
trans-1,3-Dichloropropene	ND		1.0	0.45	ug/L			12/08/23 17:01	1
Trichloroethene	ND		1.0	0.20	ug/L			12/08/23 17:01	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			12/08/23 17:01	1
Vinyl chloride	ND		0.40	0.13	ug/L			12/08/23 17:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		80 - 120		12/08/23 17:01	1
4-Bromofluorobenzene (Surr)	102		76 - 120		12/08/23 17:01	1
Dibromofluoromethane (Surr)	108		80 - 123		12/08/23 17:01	1
Toluene-d8 (Surr)	100		80 - 120		12/08/23 17:01	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	54	ug/L			12/08/23 17:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		68.7 - 141		12/08/23 17:01	1

**Client Sample ID: MW-11: 112923**

**Lab Sample ID: 590-22374-5**

Date Collected: 11/29/23 12:50

Matrix: Water

Date Received: 11/30/23 15:14

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.48	ug/L			12/08/23 17:22	1
1,1,1-Trichloroethane	ND		1.0	0.17	ug/L			12/08/23 17:22	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.32	ug/L			12/08/23 17:22	1
1,1,2-Trichloroethane	ND		2.0	0.43	ug/L			12/08/23 17:22	1
1,1-Dichloroethane	ND		1.0	0.29	ug/L			12/08/23 17:22	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			12/08/23 17:22	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			12/08/23 17:22	1
1,2,3-Trichlorobenzene	ND		1.0	0.33	ug/L			12/08/23 17:22	1
1,2,3-Trichloropropane	ND		2.0	0.50	ug/L			12/08/23 17:22	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L			12/08/23 17:22	1
1,2,4-Trimethylbenzene	ND		1.0	0.31	ug/L			12/08/23 17:22	1
1,2-Dibromo-3-Chloropropane	ND		10	1.5	ug/L			12/08/23 17:22	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			12/08/23 17:22	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			12/08/23 17:22	1
1,2-Dichloroethane	ND		1.0	0.31	ug/L			12/08/23 17:22	1
1,2-Dichloropropane	ND		1.0	0.23	ug/L			12/08/23 17:22	1
1,3,5-Trimethylbenzene	ND		1.0	0.32	ug/L			12/08/23 17:22	1
1,3-Dichlorobenzene	ND		1.0	0.14	ug/L			12/08/23 17:22	1
1,3-Dichloropropane	ND		2.0	0.21	ug/L			12/08/23 17:22	1
1,4-Dichlorobenzene	ND		1.0	0.28	ug/L			12/08/23 17:22	1
2,2-Dichloropropane	ND	*+	2.0	0.66	ug/L			12/08/23 17:22	1
2-Chlorotoluene	ND		1.0	0.36	ug/L			12/08/23 17:22	1
4-Chlorotoluene	ND		1.0	0.26	ug/L			12/08/23 17:22	1
<b>Benzene</b>	<b>0.16</b>	<b>J</b>	0.40	0.093	ug/L			12/08/23 17:22	1
Bromobenzene	ND		1.0	0.28	ug/L			12/08/23 17:22	1
Bromochloromethane	ND		2.0	0.44	ug/L			12/08/23 17:22	1

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# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Lone Airport Kwik Stop/0504-058-07

Job ID: 590-22374-1

**Client Sample ID: MW-11: 112923**

**Lab Sample ID: 590-22374-5**

Date Collected: 11/29/23 12:50

Matrix: Water

Date Received: 11/30/23 15:14

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		1.0	0.29	ug/L			12/08/23 17:22	1
Bromoform	ND		5.0	0.66	ug/L			12/08/23 17:22	1
Bromomethane	ND		5.0	0.76	ug/L			12/08/23 17:22	1
Carbon tetrachloride	ND		1.0	0.40	ug/L			12/08/23 17:22	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/08/23 17:22	1
Chloroethane	ND		2.0	0.40	ug/L			12/08/23 17:22	1
Chloroform	ND		1.0	0.24	ug/L			12/08/23 17:22	1
Chloromethane	ND		3.0	0.50	ug/L			12/08/23 17:22	1
cis-1,2-Dichloroethene	ND		1.0	0.23	ug/L			12/08/23 17:22	1
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			12/08/23 17:22	1
Dibromochloromethane	ND		2.0	0.33	ug/L			12/08/23 17:22	1
Dibromomethane	ND		2.0	0.50	ug/L			12/08/23 17:22	1
Dichlorodifluoromethane	ND		2.0	0.64	ug/L			12/08/23 17:22	1
Ethylbenzene	ND		1.0	0.20	ug/L			12/08/23 17:22	1
Hexachlorobutadiene	ND		2.0	0.21	ug/L			12/08/23 17:22	1
Isopropylbenzene	ND		1.0	0.24	ug/L			12/08/23 17:22	1
m,p-Xylene	ND		2.0	0.28	ug/L			12/08/23 17:22	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/08/23 17:22	1
Methylene Chloride	ND		5.0	2.2	ug/L			12/08/23 17:22	1
Naphthalene	ND		2.0	0.63	ug/L			12/08/23 17:22	1
n-Butylbenzene	ND		1.0	0.20	ug/L			12/08/23 17:22	1
N-Propylbenzene	ND		1.0	0.25	ug/L			12/08/23 17:22	1
o-Xylene	ND		1.0	0.16	ug/L			12/08/23 17:22	1
p-Isopropyltoluene	ND		1.0	0.27	ug/L			12/08/23 17:22	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			12/08/23 17:22	1
Styrene	ND		1.0	0.24	ug/L			12/08/23 17:22	1
tert-Butylbenzene	ND		1.0	0.12	ug/L			12/08/23 17:22	1
Tetrachloroethene	ND		1.0	0.22	ug/L			12/08/23 17:22	1
Toluene	ND		1.0	0.31	ug/L			12/08/23 17:22	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			12/08/23 17:22	1
trans-1,3-Dichloropropene	ND		1.0	0.45	ug/L			12/08/23 17:22	1
Trichloroethene	ND		1.0	0.20	ug/L			12/08/23 17:22	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			12/08/23 17:22	1
Vinyl chloride	ND		0.40	0.13	ug/L			12/08/23 17:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		80 - 120		12/08/23 17:22	1
4-Bromofluorobenzene (Surr)	101		76 - 120		12/08/23 17:22	1
Dibromofluoromethane (Surr)	108		80 - 123		12/08/23 17:22	1
Toluene-d8 (Surr)	101		80 - 120		12/08/23 17:22	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	54	ug/L			12/08/23 17:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		68.7 - 141		12/08/23 17:22	1

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# Client Sample Results

Client: GeoEngineers Inc  
 Project/Site: Lone Airport Kwik Stop/0504-058-07

Job ID: 590-22374-1

**Client Sample ID: MW-15: 112923**

**Lab Sample ID: 590-22374-6**

**Date Collected: 11/29/23 11:20**

**Matrix: Water**

**Date Received: 11/30/23 15:14**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.48	ug/L			12/08/23 17:44	1
1,1,1-Trichloroethane	ND		1.0	0.17	ug/L			12/08/23 17:44	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.32	ug/L			12/08/23 17:44	1
1,1,2-Trichloroethane	ND		2.0	0.43	ug/L			12/08/23 17:44	1
1,1-Dichloroethane	ND		1.0	0.29	ug/L			12/08/23 17:44	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			12/08/23 17:44	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			12/08/23 17:44	1
1,2,3-Trichlorobenzene	ND		1.0	0.33	ug/L			12/08/23 17:44	1
1,2,3-Trichloropropane	ND		2.0	0.50	ug/L			12/08/23 17:44	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L			12/08/23 17:44	1
1,2,4-Trimethylbenzene	ND		1.0	0.31	ug/L			12/08/23 17:44	1
1,2-Dibromo-3-Chloropropane	ND		10	1.5	ug/L			12/08/23 17:44	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			12/08/23 17:44	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			12/08/23 17:44	1
1,2-Dichloroethane	ND		1.0	0.31	ug/L			12/08/23 17:44	1
1,2-Dichloropropane	ND		1.0	0.23	ug/L			12/08/23 17:44	1
1,3,5-Trimethylbenzene	ND		1.0	0.32	ug/L			12/08/23 17:44	1
1,3-Dichlorobenzene	ND		1.0	0.14	ug/L			12/08/23 17:44	1
1,3-Dichloropropane	ND		2.0	0.21	ug/L			12/08/23 17:44	1
1,4-Dichlorobenzene	ND		1.0	0.28	ug/L			12/08/23 17:44	1
2,2-Dichloropropane	ND	*+	2.0	0.66	ug/L			12/08/23 17:44	1
2-Chlorotoluene	ND		1.0	0.36	ug/L			12/08/23 17:44	1
4-Chlorotoluene	ND		1.0	0.26	ug/L			12/08/23 17:44	1
Benzene	ND		0.40	0.093	ug/L			12/08/23 17:44	1
Bromobenzene	ND		1.0	0.28	ug/L			12/08/23 17:44	1
Bromochloromethane	ND		2.0	0.44	ug/L			12/08/23 17:44	1
Bromodichloromethane	ND		1.0	0.29	ug/L			12/08/23 17:44	1
Bromoform	ND		5.0	0.66	ug/L			12/08/23 17:44	1
Bromomethane	ND		5.0	0.76	ug/L			12/08/23 17:44	1
Carbon tetrachloride	ND		1.0	0.40	ug/L			12/08/23 17:44	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/08/23 17:44	1
Chloroethane	ND		2.0	0.40	ug/L			12/08/23 17:44	1
Chloroform	ND		1.0	0.24	ug/L			12/08/23 17:44	1
Chloromethane	ND		3.0	0.50	ug/L			12/08/23 17:44	1
cis-1,2-Dichloroethene	ND		1.0	0.23	ug/L			12/08/23 17:44	1
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			12/08/23 17:44	1
Dibromochloromethane	ND		2.0	0.33	ug/L			12/08/23 17:44	1
Dibromomethane	ND		2.0	0.50	ug/L			12/08/23 17:44	1
Dichlorodifluoromethane	ND		2.0	0.64	ug/L			12/08/23 17:44	1
Ethylbenzene	ND		1.0	0.20	ug/L			12/08/23 17:44	1
Hexachlorobutadiene	ND		2.0	0.21	ug/L			12/08/23 17:44	1
Isopropylbenzene	ND		1.0	0.24	ug/L			12/08/23 17:44	1
m,p-Xylene	ND		2.0	0.28	ug/L			12/08/23 17:44	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/08/23 17:44	1
Methylene Chloride	ND		5.0	2.2	ug/L			12/08/23 17:44	1
Naphthalene	ND		2.0	0.63	ug/L			12/08/23 17:44	1
n-Butylbenzene	ND		1.0	0.20	ug/L			12/08/23 17:44	1
N-Propylbenzene	ND		1.0	0.25	ug/L			12/08/23 17:44	1
o-Xylene	ND		1.0	0.16	ug/L			12/08/23 17:44	1

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# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Lone Airport Kwik Stop/0504-058-07

Job ID: 590-22374-1

**Client Sample ID: MW-15: 112923**

**Lab Sample ID: 590-22374-6**

**Date Collected: 11/29/23 11:20**

**Matrix: Water**

**Date Received: 11/30/23 15:14**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		1.0	0.27	ug/L			12/08/23 17:44	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			12/08/23 17:44	1
Styrene	ND		1.0	0.24	ug/L			12/08/23 17:44	1
tert-Butylbenzene	ND		1.0	0.12	ug/L			12/08/23 17:44	1
Tetrachloroethene	ND		1.0	0.22	ug/L			12/08/23 17:44	1
Toluene	ND		1.0	0.31	ug/L			12/08/23 17:44	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			12/08/23 17:44	1
trans-1,3-Dichloropropene	ND		1.0	0.45	ug/L			12/08/23 17:44	1
Trichloroethene	ND		1.0	0.20	ug/L			12/08/23 17:44	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			12/08/23 17:44	1
Vinyl chloride	ND		0.40	0.13	ug/L			12/08/23 17:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		80 - 120					12/08/23 17:44	1
4-Bromofluorobenzene (Surr)	99		76 - 120					12/08/23 17:44	1
Dibromofluoromethane (Surr)	104		80 - 123					12/08/23 17:44	1
Toluene-d8 (Surr)	100		80 - 120					12/08/23 17:44	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	54	ug/L			12/08/23 17:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		68.7 - 141					12/08/23 17:44	1

**Client Sample ID: MW-18: 112923**

**Lab Sample ID: 590-22374-7**

**Date Collected: 11/29/23 14:50**

**Matrix: Water**

**Date Received: 11/30/23 15:14**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.48	ug/L			12/08/23 18:05	1
1,1,1-Trichloroethane	ND		1.0	0.17	ug/L			12/08/23 18:05	1
1,1,1,2,2-Tetrachloroethane	ND		2.0	0.32	ug/L			12/08/23 18:05	1
1,1,2-Trichloroethane	ND		2.0	0.43	ug/L			12/08/23 18:05	1
1,1-Dichloroethane	ND		1.0	0.29	ug/L			12/08/23 18:05	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			12/08/23 18:05	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			12/08/23 18:05	1
1,2,3-Trichlorobenzene	ND		1.0	0.33	ug/L			12/08/23 18:05	1
1,2,3-Trichloropropane	ND		2.0	0.50	ug/L			12/08/23 18:05	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L			12/08/23 18:05	1
1,2,4-Trimethylbenzene	ND		1.0	0.31	ug/L			12/08/23 18:05	1
1,2-Dibromo-3-Chloropropane	ND		10	1.5	ug/L			12/08/23 18:05	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			12/08/23 18:05	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			12/08/23 18:05	1
1,2-Dichloroethane	ND		1.0	0.31	ug/L			12/08/23 18:05	1
1,2-Dichloropropane	ND		1.0	0.23	ug/L			12/08/23 18:05	1
1,3,5-Trimethylbenzene	ND		1.0	0.32	ug/L			12/08/23 18:05	1
1,3-Dichlorobenzene	ND		1.0	0.14	ug/L			12/08/23 18:05	1
1,3-Dichloropropane	ND		2.0	0.21	ug/L			12/08/23 18:05	1
1,4-Dichlorobenzene	ND		1.0	0.28	ug/L			12/08/23 18:05	1

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# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Lone Airport Kwik Stop/0504-058-07

Job ID: 590-22374-1

**Client Sample ID: MW-18: 112923**

**Lab Sample ID: 590-22374-7**

**Date Collected: 11/29/23 14:50**

**Matrix: Water**

**Date Received: 11/30/23 15:14**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	ND	*+	2.0	0.66	ug/L			12/08/23 18:05	1
2-Chlorotoluene	ND		1.0	0.36	ug/L			12/08/23 18:05	1
4-Chlorotoluene	ND		1.0	0.26	ug/L			12/08/23 18:05	1
Benzene	ND		0.40	0.093	ug/L			12/08/23 18:05	1
Bromobenzene	ND		1.0	0.28	ug/L			12/08/23 18:05	1
Bromochloromethane	ND		2.0	0.44	ug/L			12/08/23 18:05	1
Bromodichloromethane	ND		1.0	0.29	ug/L			12/08/23 18:05	1
Bromoform	ND		5.0	0.66	ug/L			12/08/23 18:05	1
Bromomethane	ND		5.0	0.76	ug/L			12/08/23 18:05	1
Carbon tetrachloride	ND		1.0	0.40	ug/L			12/08/23 18:05	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/08/23 18:05	1
Chloroethane	ND		2.0	0.40	ug/L			12/08/23 18:05	1
Chloroform	ND		1.0	0.24	ug/L			12/08/23 18:05	1
Chloromethane	ND		3.0	0.50	ug/L			12/08/23 18:05	1
cis-1,2-Dichloroethene	ND		1.0	0.23	ug/L			12/08/23 18:05	1
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			12/08/23 18:05	1
Dibromochloromethane	ND		2.0	0.33	ug/L			12/08/23 18:05	1
Dibromomethane	ND		2.0	0.50	ug/L			12/08/23 18:05	1
Dichlorodifluoromethane	ND		2.0	0.64	ug/L			12/08/23 18:05	1
Ethylbenzene	ND		1.0	0.20	ug/L			12/08/23 18:05	1
Hexachlorobutadiene	ND		2.0	0.21	ug/L			12/08/23 18:05	1
Isopropylbenzene	ND		1.0	0.24	ug/L			12/08/23 18:05	1
m,p-Xylene	ND		2.0	0.28	ug/L			12/08/23 18:05	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/08/23 18:05	1
Methylene Chloride	ND		5.0	2.2	ug/L			12/08/23 18:05	1
Naphthalene	ND		2.0	0.63	ug/L			12/08/23 18:05	1
n-Butylbenzene	ND		1.0	0.20	ug/L			12/08/23 18:05	1
N-Propylbenzene	ND		1.0	0.25	ug/L			12/08/23 18:05	1
o-Xylene	ND		1.0	0.16	ug/L			12/08/23 18:05	1
p-Isopropyltoluene	ND		1.0	0.27	ug/L			12/08/23 18:05	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			12/08/23 18:05	1
Styrene	ND		1.0	0.24	ug/L			12/08/23 18:05	1
tert-Butylbenzene	ND		1.0	0.12	ug/L			12/08/23 18:05	1
Tetrachloroethene	ND		1.0	0.22	ug/L			12/08/23 18:05	1
Toluene	ND		1.0	0.31	ug/L			12/08/23 18:05	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			12/08/23 18:05	1
trans-1,3-Dichloropropene	ND		1.0	0.45	ug/L			12/08/23 18:05	1
Trichloroethene	ND		1.0	0.20	ug/L			12/08/23 18:05	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			12/08/23 18:05	1
Vinyl chloride	ND		0.40	0.13	ug/L			12/08/23 18:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		80 - 120		12/08/23 18:05	1
4-Bromofluorobenzene (Surr)	100		76 - 120		12/08/23 18:05	1
Dibromofluoromethane (Surr)	107		80 - 123		12/08/23 18:05	1
Toluene-d8 (Surr)	101		80 - 120		12/08/23 18:05	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	54	ug/L			12/08/23 18:05	1

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# Client Sample Results

Client: GeoEngineers Inc  
 Project/Site: Lone Airport Kwik Stop/0504-058-07

Job ID: 590-22374-1

**Client Sample ID: MW-18: 112923**

**Lab Sample ID: 590-22374-7**

Date Collected: 11/29/23 14:50

Matrix: Water

Date Received: 11/30/23 15:14

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		68.7 - 141		12/08/23 18:05	1

**Client Sample ID: DUP 1: 113023**

**Lab Sample ID: 590-22374-8**

Date Collected: 11/30/23 09:00

Matrix: Water

Date Received: 11/30/23 15:14

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.48	ug/L			12/08/23 18:27	1
1,1,1-Trichloroethane	ND		1.0	0.17	ug/L			12/08/23 18:27	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.32	ug/L			12/08/23 18:27	1
1,1,2-Trichloroethane	ND		2.0	0.43	ug/L			12/08/23 18:27	1
1,1-Dichloroethane	ND		1.0	0.29	ug/L			12/08/23 18:27	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			12/08/23 18:27	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			12/08/23 18:27	1
1,2,3-Trichlorobenzene	ND		1.0	0.33	ug/L			12/08/23 18:27	1
1,2,3-Trichloropropane	ND		2.0	0.50	ug/L			12/08/23 18:27	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L			12/08/23 18:27	1
<b>1,2,4-Trimethylbenzene</b>	<b>72</b>		1.0	0.31	ug/L			12/08/23 18:27	1
1,2-Dibromo-3-Chloropropane	ND		10	1.5	ug/L			12/08/23 18:27	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			12/08/23 18:27	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			12/08/23 18:27	1
1,2-Dichloroethane	ND		1.0	0.31	ug/L			12/08/23 18:27	1
1,2-Dichloropropane	ND		1.0	0.23	ug/L			12/08/23 18:27	1
<b>1,3,5-Trimethylbenzene</b>	<b>65</b>		1.0	0.32	ug/L			12/08/23 18:27	1
1,3-Dichlorobenzene	ND		1.0	0.14	ug/L			12/08/23 18:27	1
1,3-Dichloropropane	ND		2.0	0.21	ug/L			12/08/23 18:27	1
1,4-Dichlorobenzene	ND		1.0	0.28	ug/L			12/08/23 18:27	1
2,2-Dichloropropane	ND	+	2.0	0.66	ug/L			12/08/23 18:27	1
2-Chlorotoluene	ND		1.0	0.36	ug/L			12/08/23 18:27	1
4-Chlorotoluene	ND		1.0	0.26	ug/L			12/08/23 18:27	1
Benzene	ND		0.40	0.093	ug/L			12/08/23 18:27	1
Bromobenzene	ND		1.0	0.28	ug/L			12/08/23 18:27	1
Bromochloromethane	ND		2.0	0.44	ug/L			12/08/23 18:27	1
<b>Bromodichloromethane</b>	<b>0.45</b>	<b>J</b>	1.0	0.29	ug/L			12/08/23 18:27	1
Bromoform	ND		5.0	0.66	ug/L			12/08/23 18:27	1
Bromomethane	ND		5.0	0.76	ug/L			12/08/23 18:27	1
Carbon tetrachloride	ND		1.0	0.40	ug/L			12/08/23 18:27	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/08/23 18:27	1
Chloroethane	ND		2.0	0.40	ug/L			12/08/23 18:27	1
<b>Chloroform</b>	<b>0.52</b>	<b>J</b>	1.0	0.24	ug/L			12/08/23 18:27	1
Chloromethane	ND		3.0	0.50	ug/L			12/08/23 18:27	1
cis-1,2-Dichloroethene	ND		1.0	0.23	ug/L			12/08/23 18:27	1
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			12/08/23 18:27	1
Dibromochloromethane	ND		2.0	0.33	ug/L			12/08/23 18:27	1
Dibromomethane	ND		2.0	0.50	ug/L			12/08/23 18:27	1
Dichlorodifluoromethane	ND		2.0	0.64	ug/L			12/08/23 18:27	1
Ethylbenzene	ND		1.0	0.20	ug/L			12/08/23 18:27	1
Hexachlorobutadiene	ND		2.0	0.21	ug/L			12/08/23 18:27	1
<b>Isopropylbenzene</b>	<b>1.2</b>		1.0	0.24	ug/L			12/08/23 18:27	1

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# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Lone Airport Kwik Stop/0504-058-07

Job ID: 590-22374-1

**Client Sample ID: DUP 1: 113023**

**Lab Sample ID: 590-22374-8**

Date Collected: 11/30/23 09:00

Matrix: Water

Date Received: 11/30/23 15:14

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>m,p-Xylene</b>	<b>0.30</b>	<b>J</b>	2.0	0.28	ug/L			12/08/23 18:27	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/08/23 18:27	1
Methylene Chloride	ND		5.0	2.2	ug/L			12/08/23 18:27	1
Naphthalene	ND		2.0	0.63	ug/L			12/08/23 18:27	1
n-Butylbenzene	ND		1.0	0.20	ug/L			12/08/23 18:27	1
<b>N-Propylbenzene</b>	<b>4.5</b>		1.0	0.25	ug/L			12/08/23 18:27	1
o-Xylene	ND		1.0	0.16	ug/L			12/08/23 18:27	1
<b>p-Isopropyltoluene</b>	<b>1.2</b>		1.0	0.27	ug/L			12/08/23 18:27	1
<b>sec-Butylbenzene</b>	<b>1.3</b>		1.0	0.22	ug/L			12/08/23 18:27	1
Styrene	ND		1.0	0.24	ug/L			12/08/23 18:27	1
<b>tert-Butylbenzene</b>	<b>9.3</b>		1.0	0.12	ug/L			12/08/23 18:27	1
Tetrachloroethene	ND		1.0	0.22	ug/L			12/08/23 18:27	1
Toluene	ND		1.0	0.31	ug/L			12/08/23 18:27	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			12/08/23 18:27	1
trans-1,3-Dichloropropene	ND		1.0	0.45	ug/L			12/08/23 18:27	1
Trichloroethene	ND		1.0	0.20	ug/L			12/08/23 18:27	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			12/08/23 18:27	1
Vinyl chloride	ND		0.40	0.13	ug/L			12/08/23 18:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		80 - 120		12/08/23 18:27	1
4-Bromofluorobenzene (Surr)	101		76 - 120		12/08/23 18:27	1
Dibromofluoromethane (Surr)	101		80 - 123		12/08/23 18:27	1
Toluene-d8 (Surr)	94		80 - 120		12/08/23 18:27	1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Gasoline</b>	<b>1100</b>		150	54	ug/L			12/08/23 18:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		68.7 - 141		12/08/23 18:27	1

## Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		5.0	0.63	ug/L			12/07/23 23:36	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>14</b>		0.80	0.42	mg/L			12/01/23 14:25	1
<b>Nitrate as N</b>	<b>2.5</b>		0.20	0.057	mg/L			12/01/23 14:25	1
<b>Nitrite as N</b>	<b>1.3</b>		0.20	0.069	mg/L			12/01/23 14:25	1
<b>Sulfate</b>	<b>220</b>		5.0	1.3	mg/L			12/05/23 15:17	10

## Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.0052</b>		0.0050	0.0010	mg/L		12/06/23 16:38	12/08/23 09:19	5
Cadmium	ND		0.0020	0.00019	mg/L		12/06/23 16:38	12/08/23 09:19	5
<b>Iron</b>	<b>0.98</b>		0.50	0.067	mg/L		12/06/23 16:38	12/08/23 09:19	5
Lead	ND		0.0020	0.00020	mg/L		12/06/23 16:38	12/08/23 09:19	5
<b>Manganese</b>	<b>0.67</b>		0.010	0.0023	mg/L		12/06/23 16:38	12/08/23 09:19	5
<b>Zinc</b>	<b>0.0050</b>	<b>J</b>	0.035	0.0046	mg/L		12/06/23 16:38	12/08/23 09:19	5

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# Client Sample Results

Client: GeoEngineers Inc  
 Project/Site: Lone Airport Kwik Stop/0504-058-07

Job ID: 590-22374-1

**Client Sample ID: DUP 1: 113023**

**Lab Sample ID: 590-22374-8**

Date Collected: 11/30/23 09:00

Matrix: Water

Date Received: 11/30/23 15:14

**Method: SW846 6020B - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.0013</b>	<b>J</b>	0.0050	0.0010	mg/L		12/08/23 15:08	12/11/23 15:08	5
Cadmium	ND		0.0020	0.00019	mg/L		12/08/23 15:08	12/11/23 15:08	5
<b>Iron</b>	<b>0.085</b>	<b>J</b>	0.50	0.067	mg/L		12/08/23 15:08	12/11/23 15:08	5
Lead	ND		0.0020	0.00020	mg/L		12/08/23 15:08	12/11/23 15:08	5
<b>Manganese</b>	<b>0.71</b>		0.010	0.0023	mg/L		12/08/23 15:08	12/11/23 15:08	5
Zinc	ND		0.035	0.0046	mg/L		12/08/23 15:08	12/11/23 15:08	5

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Alkalinity (SM 2320B)</b>	<b>330</b>	<b>B</b>	20	5.0	mg/L			12/11/23 11:29	1
<b>Bicarbonate Alkalinity as CaCO3 (SM 2320B)</b>	<b>330</b>	<b>B</b>	20	5.0	mg/L			12/11/23 11:29	1
<b>Total Dissolved Solids (SM 2540C)</b>	<b>520</b>		25	13	mg/L			12/04/23 09:53	1
<b>Total Organic Carbon - Duplicates (SM 5310B)</b>	<b>3.4</b>		1.0	0.35	mg/L			12/08/23 23:47	1

# QC Sample Results

Client: GeoEngineers Inc  
 Project/Site: Lone Airport Kwik Stop/0504-058-07

Job ID: 590-22374-1

## Method: 8260D - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 590-45001/7**  
**Matrix: Water**  
**Analysis Batch: 45001**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.48	ug/L			12/08/23 12:39	1
1,1,1-Trichloroethane	ND		1.0	0.17	ug/L			12/08/23 12:39	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.32	ug/L			12/08/23 12:39	1
1,1,2-Trichloroethane	ND		2.0	0.43	ug/L			12/08/23 12:39	1
1,1-Dichloroethane	ND		1.0	0.29	ug/L			12/08/23 12:39	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			12/08/23 12:39	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			12/08/23 12:39	1
1,2,3-Trichlorobenzene	ND		1.0	0.33	ug/L			12/08/23 12:39	1
1,2,3-Trichloropropane	ND		2.0	0.50	ug/L			12/08/23 12:39	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L			12/08/23 12:39	1
1,2,4-Trimethylbenzene	ND		1.0	0.31	ug/L			12/08/23 12:39	1
1,2-Dibromo-3-Chloropropane	ND		10	1.5	ug/L			12/08/23 12:39	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			12/08/23 12:39	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			12/08/23 12:39	1
1,2-Dichloroethane	ND		1.0	0.31	ug/L			12/08/23 12:39	1
1,2-Dichloropropane	ND		1.0	0.23	ug/L			12/08/23 12:39	1
1,3,5-Trimethylbenzene	ND		1.0	0.32	ug/L			12/08/23 12:39	1
1,3-Dichlorobenzene	ND		1.0	0.14	ug/L			12/08/23 12:39	1
1,3-Dichloropropane	ND		2.0	0.21	ug/L			12/08/23 12:39	1
1,4-Dichlorobenzene	ND		1.0	0.28	ug/L			12/08/23 12:39	1
2,2-Dichloropropane	ND		2.0	0.66	ug/L			12/08/23 12:39	1
2-Chlorotoluene	ND		1.0	0.36	ug/L			12/08/23 12:39	1
4-Chlorotoluene	ND		1.0	0.26	ug/L			12/08/23 12:39	1
Benzene	ND		0.40	0.093	ug/L			12/08/23 12:39	1
Bromobenzene	ND		1.0	0.28	ug/L			12/08/23 12:39	1
Bromochloromethane	ND		2.0	0.44	ug/L			12/08/23 12:39	1
Bromodichloromethane	ND		1.0	0.29	ug/L			12/08/23 12:39	1
Bromoform	ND		5.0	0.66	ug/L			12/08/23 12:39	1
Bromomethane	ND		5.0	0.76	ug/L			12/08/23 12:39	1
Carbon tetrachloride	ND		1.0	0.40	ug/L			12/08/23 12:39	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/08/23 12:39	1
Chloroethane	ND		2.0	0.40	ug/L			12/08/23 12:39	1
Chloroform	ND		1.0	0.24	ug/L			12/08/23 12:39	1
Chloromethane	ND		3.0	0.50	ug/L			12/08/23 12:39	1
cis-1,2-Dichloroethene	ND		1.0	0.23	ug/L			12/08/23 12:39	1
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			12/08/23 12:39	1
Dibromochloromethane	ND		2.0	0.33	ug/L			12/08/23 12:39	1
Dibromomethane	ND		2.0	0.50	ug/L			12/08/23 12:39	1
Dichlorodifluoromethane	ND		2.0	0.64	ug/L			12/08/23 12:39	1
Ethylbenzene	ND		1.0	0.20	ug/L			12/08/23 12:39	1
Hexachlorobutadiene	ND		2.0	0.21	ug/L			12/08/23 12:39	1
Isopropylbenzene	ND		1.0	0.24	ug/L			12/08/23 12:39	1
m,p-Xylene	ND		2.0	0.28	ug/L			12/08/23 12:39	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/08/23 12:39	1
Methylene Chloride	ND		5.0	2.2	ug/L			12/08/23 12:39	1
Naphthalene	ND		2.0	0.63	ug/L			12/08/23 12:39	1
n-Butylbenzene	ND		1.0	0.20	ug/L			12/08/23 12:39	1
N-Propylbenzene	ND		1.0	0.25	ug/L			12/08/23 12:39	1

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# QC Sample Results

Client: GeoEngineers Inc  
 Project/Site: Lone Airport Kwik Stop/0504-058-07

Job ID: 590-22374-1

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

**Lab Sample ID: MB 590-45001/7**  
**Matrix: Water**  
**Analysis Batch: 45001**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
o-Xylene	ND		1.0	0.16	ug/L			12/08/23 12:39	1
p-Isopropyltoluene	ND		1.0	0.27	ug/L			12/08/23 12:39	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			12/08/23 12:39	1
Styrene	ND		1.0	0.24	ug/L			12/08/23 12:39	1
tert-Butylbenzene	ND		1.0	0.12	ug/L			12/08/23 12:39	1
Tetrachloroethene	ND		1.0	0.22	ug/L			12/08/23 12:39	1
Toluene	ND		1.0	0.31	ug/L			12/08/23 12:39	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			12/08/23 12:39	1
trans-1,3-Dichloropropene	ND		1.0	0.45	ug/L			12/08/23 12:39	1
Trichloroethene	ND		1.0	0.20	ug/L			12/08/23 12:39	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			12/08/23 12:39	1
Vinyl chloride	ND		0.40	0.13	ug/L			12/08/23 12:39	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	98		80 - 120		12/08/23 12:39	1
4-Bromofluorobenzene (Surr)	100		76 - 120		12/08/23 12:39	1
Dibromofluoromethane (Surr)	103		80 - 123		12/08/23 12:39	1
Toluene-d8 (Surr)	103		80 - 120		12/08/23 12:39	1

**Lab Sample ID: LCS 590-45001/1004**  
**Matrix: Water**  
**Analysis Batch: 45001**

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1,1,1,2-Tetrachloroethane	10.0	10.9		ug/L		109	80 - 131
1,1,1-Trichloroethane	10.0	11.5		ug/L		115	71 - 138
1,1,1,2,2-Tetrachloroethane	10.0	10.0		ug/L		100	60 - 150
1,1,2-Trichloroethane	10.0	10.8		ug/L		108	80 - 128
1,1-Dichloroethane	10.0	10.7		ug/L		107	80 - 125
1,1-Dichloroethene	10.0	11.0		ug/L		110	65 - 141
1,1-Dichloropropene	10.0	10.4		ug/L		104	82 - 123
1,2,3-Trichlorobenzene	10.0	9.87		ug/L		99	70 - 137
1,2,3-Trichloropropane	10.0	9.85		ug/L		99	65 - 142
1,2,4-Trichlorobenzene	10.0	9.44		ug/L		94	76 - 131
1,2,4-Trimethylbenzene	10.0	9.10		ug/L		91	78 - 131
1,2-Dibromo-3-Chloropropane	10.0	10.8		ug/L		108	53 - 142
1,2-Dibromoethane (EDB)	10.0	10.9		ug/L		109	80 - 124
1,2-Dichlorobenzene	10.0	10.4		ug/L		104	80 - 120
1,2-Dichloroethane	10.0	10.3		ug/L		103	80 - 120
1,2-Dichloropropane	10.0	9.97		ug/L		100	79 - 122
1,3,5-Trimethylbenzene	10.0	8.83		ug/L		88	76 - 129
1,3-Dichlorobenzene	10.0	10.1		ug/L		101	80 - 122
1,3-Dichloropropane	10.0	10.3		ug/L		103	78 - 129
1,4-Dichlorobenzene	10.0	9.95		ug/L		99	80 - 120
2,2-Dichloropropane	10.0	14.4	*+	ug/L		144	73 - 140
2-Chlorotoluene	10.0	10.6		ug/L		106	74 - 129
4-Chlorotoluene	10.0	9.86		ug/L		99	79 - 125
Benzene	10.0	10.3		ug/L		103	80 - 120

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# QC Sample Results

Client: GeoEngineers Inc  
 Project/Site: Lone Airport Kwik Stop/0504-058-07

Job ID: 590-22374-1

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

**Lab Sample ID: LCS 590-45001/1004**  
**Matrix: Water**  
**Analysis Batch: 45001**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromobenzene	10.0	9.56		ug/L		96	73 - 125
Bromochloromethane	10.0	10.3		ug/L		103	71 - 136
Bromodichloromethane	10.0	10.4		ug/L		104	80 - 120
Bromoform	10.0	11.4		ug/L		114	73 - 139
Bromomethane	10.0	9.87		ug/L		99	66 - 149
Carbon tetrachloride	10.0	11.4		ug/L		114	72 - 138
Chlorobenzene	10.0	10.2		ug/L		102	80 - 124
Chloroethane	10.0	10.3		ug/L		103	64 - 134
Chloroform	10.0	10.9		ug/L		109	80 - 123
Chloromethane	10.0	9.61		ug/L		96	19 - 150
cis-1,2-Dichloroethene	10.0	10.4		ug/L		104	80 - 122
cis-1,3-Dichloropropene	10.0	9.89		ug/L		99	80 - 121
Dibromochloromethane	10.0	10.6		ug/L		106	80 - 130
Dibromomethane	10.0	10.2		ug/L		102	80 - 122
Dichlorodifluoromethane	10.0	10.0		ug/L		100	30 - 150
Ethylbenzene	10.0	10.6		ug/L		106	80 - 122
Hexachlorobutadiene	10.0	10.2		ug/L		102	77 - 132
Isopropylbenzene	10.0	11.2		ug/L		112	80 - 122
m,p-Xylene	10.0	10.8		ug/L		108	80 - 125
Methyl tert-butyl ether	10.0	11.9		ug/L		119	68 - 134
Methylene Chloride	10.0	10.2		ug/L		102	30 - 150
Naphthalene	10.0	10.1		ug/L		101	61 - 140
n-Butylbenzene	10.0	10.2		ug/L		102	75 - 121
N-Propylbenzene	10.0	10.0		ug/L		100	73 - 136
o-Xylene	10.0	10.9		ug/L		109	80 - 130
p-Isopropyltoluene	10.0	10.2		ug/L		102	78 - 128
sec-Butylbenzene	10.0	8.90		ug/L		89	73 - 138
Styrene	10.0	10.0		ug/L		100	79 - 134
tert-Butylbenzene	10.0	8.73		ug/L		87	76 - 131
Tetrachloroethene	10.0	11.6		ug/L		116	80 - 139
Toluene	10.0	9.84		ug/L		98	80 - 129
trans-1,2-Dichloroethene	10.0	9.76		ug/L		98	73 - 137
trans-1,3-Dichloropropene	10.0	10.9		ug/L		109	73 - 138
Trichloroethene	10.0	10.4		ug/L		104	80 - 123
Trichlorofluoromethane	10.0	9.87		ug/L		99	71 - 147
Vinyl chloride	10.0	9.39		ug/L		94	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		80 - 120
4-Bromofluorobenzene (Surr)	100		76 - 120
Dibromofluoromethane (Surr)	103		80 - 123
Toluene-d8 (Surr)	99		80 - 120



# QC Sample Results

Client: GeoEngineers Inc  
 Project/Site: Lone Airport Kwik Stop/0504-058-07

Job ID: 590-22374-1

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

**Lab Sample ID: LCSD 590-45001/5**  
**Matrix: Water**  
**Analysis Batch: 45001**

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	10.0	10.5		ug/L		105	80 - 131	3	17
1,1,1-Trichloroethane	10.0	11.4		ug/L		114	71 - 138	1	17
1,1,2,2-Tetrachloroethane	10.0	9.87		ug/L		99	60 - 150	2	17
1,1,2-Trichloroethane	10.0	10.6		ug/L		106	80 - 128	2	15
1,1-Dichloroethane	10.0	9.87		ug/L		99	80 - 125	8	20
1,1-Dichloroethene	10.0	10.1		ug/L		101	65 - 141	8	19
1,1-Dichloropropene	10.0	9.72		ug/L		97	82 - 123	7	20
1,2,3-Trichlorobenzene	10.0	10.2		ug/L		102	70 - 137	3	30
1,2,3-Trichloropropane	10.0	9.99		ug/L		100	65 - 142	1	34
1,2,4-Trichlorobenzene	10.0	9.68		ug/L		97	76 - 131	2	24
1,2,4-Trimethylbenzene	10.0	8.54		ug/L		85	78 - 131	6	16
1,2-Dibromo-3-Chloropropane	10.0	9.93	J	ug/L		99	53 - 142	9	29
1,2-Dibromoethane (EDB)	10.0	11.1		ug/L		111	80 - 124	2	14
1,2-Dichlorobenzene	10.0	9.74		ug/L		97	80 - 120	6	14
1,2-Dichloroethane	10.0	10.1		ug/L		101	80 - 120	2	14
1,2-Dichloropropane	10.0	9.74		ug/L		97	79 - 122	2	15
1,3,5-Trimethylbenzene	10.0	8.42		ug/L		84	76 - 129	5	17
1,3-Dichlorobenzene	10.0	9.61		ug/L		96	80 - 122	5	15
1,3-Dichloropropane	10.0	10.3		ug/L		103	78 - 129	0	17
1,4-Dichlorobenzene	10.0	9.58		ug/L		96	80 - 120	4	14
2,2-Dichloropropane	10.0	12.9		ug/L		129	73 - 140	11	18
2-Chlorotoluene	10.0	9.34		ug/L		93	74 - 129	12	19
4-Chlorotoluene	10.0	9.45		ug/L		94	79 - 125	4	16
Benzene	10.0	9.96		ug/L		100	80 - 120	4	15
Bromobenzene	10.0	9.10		ug/L		91	73 - 125	5	16
Bromochloromethane	10.0	10.0		ug/L		100	71 - 136	3	21
Bromodichloromethane	10.0	9.87		ug/L		99	80 - 120	5	16
Bromoform	10.0	11.4		ug/L		114	73 - 139	0	17
Bromomethane	10.0	9.46		ug/L		95	66 - 149	4	24
Carbon tetrachloride	10.0	11.0		ug/L		110	72 - 138	3	28
Chlorobenzene	10.0	9.75		ug/L		97	80 - 124	4	14
Chloroethane	10.0	9.51		ug/L		95	64 - 134	8	24
Chloroform	10.0	10.2		ug/L		102	80 - 123	7	18
Chloromethane	10.0	9.10		ug/L		91	19 - 150	5	35
cis-1,2-Dichloroethene	10.0	9.91		ug/L		99	80 - 122	5	17
cis-1,3-Dichloropropene	10.0	9.99		ug/L		100	80 - 121	1	16
Dibromochloromethane	10.0	10.4		ug/L		104	80 - 130	2	15
Dibromomethane	10.0	9.23		ug/L		92	80 - 122	10	16
Dichlorodifluoromethane	10.0	9.92		ug/L		99	30 - 150	1	22
Ethylbenzene	10.0	10.2		ug/L		102	80 - 122	4	35
Hexachlorobutadiene	10.0	10.5		ug/L		105	77 - 132	3	25
Isopropylbenzene	10.0	10.7		ug/L		107	80 - 122	4	16
m,p-Xylene	10.0	10.4		ug/L		104	80 - 125	4	35
Methyl tert-butyl ether	10.0	11.9		ug/L		119	68 - 134	1	18
Methylene Chloride	10.0	9.20		ug/L		92	30 - 150	10	25
Naphthalene	10.0	10.5		ug/L		105	61 - 140	4	25
n-Butylbenzene	10.0	9.79		ug/L		98	75 - 121	5	16
N-Propylbenzene	10.0	9.54		ug/L		95	73 - 136	5	18

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# QC Sample Results

Client: GeoEngineers Inc  
 Project/Site: Lone Airport Kwik Stop/0504-058-07

Job ID: 590-22374-1

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

**Lab Sample ID: LCSD 590-45001/5**  
**Matrix: Water**  
**Analysis Batch: 45001**

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
o-Xylene	10.0	10.5		ug/L		105	80 - 130	4	35
p-Isopropyltoluene	10.0	9.85		ug/L		98	78 - 128	4	17
sec-Butylbenzene	10.0	8.49		ug/L		85	73 - 138	5	17
Styrene	10.0	9.99		ug/L		100	79 - 134	0	17
tert-Butylbenzene	10.0	8.29		ug/L		83	76 - 131	5	18
Tetrachloroethene	10.0	10.7		ug/L		107	80 - 139	8	20
Toluene	10.0	9.33		ug/L		93	80 - 129	5	35
trans-1,2-Dichloroethene	10.0	9.91		ug/L		99	73 - 137	2	18
trans-1,3-Dichloropropene	10.0	10.7		ug/L		107	73 - 138	1	17
Trichloroethene	10.0	9.40		ug/L		94	80 - 123	11	14
Trichlorofluoromethane	10.0	8.94		ug/L		89	71 - 147	10	24
Vinyl chloride	10.0	9.52		ug/L		95	50 - 150	1	26

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		80 - 120
4-Bromofluorobenzene (Surr)	98		76 - 120
Dibromofluoromethane (Surr)	101		80 - 123
Toluene-d8 (Surr)	98		80 - 120

**Lab Sample ID: 590-22374-1 DU**  
**Matrix: Water**  
**Analysis Batch: 45001**

**Client Sample ID: MW-3: 113023**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		ND		ug/L		NC	17
1,1,1-Trichloroethane	ND		ND		ug/L		NC	17
1,1,1,2-Tetrachloroethane	ND		ND		ug/L		NC	17
1,1,2-Trichloroethane	ND		ND		ug/L		NC	15
1,1-Dichloroethane	ND		ND		ug/L		NC	20
1,1-Dichloroethene	ND		ND		ug/L		NC	19
1,1-Dichloropropene	ND		ND		ug/L		NC	20
1,2,3-Trichlorobenzene	ND		ND		ug/L		NC	30
1,2,3-Trichloropropane	ND		ND		ug/L		NC	34
1,2,4-Trichlorobenzene	ND		ND		ug/L		NC	24
1,2,4-Trimethylbenzene	5.0		5.33		ug/L		6	16
1,2-Dibromo-3-Chloropropane	2.6	J	2.41	J	ug/L		6	29
1,2-Dibromoethane (EDB)	ND		ND		ug/L		NC	14
1,2-Dichlorobenzene	ND		ND		ug/L		NC	14
1,2-Dichloroethane	ND		ND		ug/L		NC	14
1,2-Dichloropropane	ND		ND		ug/L		NC	15
1,3,5-Trimethylbenzene	41		41.2		ug/L		1	17
1,3-Dichlorobenzene	ND		ND		ug/L		NC	15
1,3-Dichloropropane	ND		ND		ug/L		NC	17
1,4-Dichlorobenzene	ND		ND		ug/L		NC	14
2,2-Dichloropropane	ND	*+	ND	*+	ug/L		NC	18
2-Chlorotoluene	ND		ND		ug/L		NC	19
4-Chlorotoluene	ND		ND		ug/L		NC	16
Benzene	ND		ND		ug/L		NC	15

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# QC Sample Results

Client: GeoEngineers Inc  
 Project/Site: Lone Airport Kwik Stop/0504-058-07

Job ID: 590-22374-1

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

**Lab Sample ID: 590-22374-1 DU**  
**Matrix: Water**  
**Analysis Batch: 45001**

**Client Sample ID: MW-3: 113023**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Bromobenzene	ND		ND		ug/L		NC	16
Bromochloromethane	ND		ND		ug/L		NC	21
Bromodichloromethane	ND		ND		ug/L		NC	16
Bromoform	ND		ND		ug/L		NC	17
Bromomethane	ND		ND		ug/L		NC	24
Carbon tetrachloride	ND		ND		ug/L		NC	28
Chlorobenzene	ND		ND		ug/L		NC	14
Chloroethane	1.5	J	ND		ug/L		NC	24
Chloroform	ND		ND		ug/L		NC	18
Chloromethane	0.57	J	0.705	J	ug/L		21	35
cis-1,2-Dichloroethene	ND		ND		ug/L		NC	17
cis-1,3-Dichloropropene	ND		ND		ug/L		NC	16
Dibromochloromethane	ND		ND		ug/L		NC	15
Dibromomethane	ND		ND		ug/L		NC	16
Dichlorodifluoromethane	ND		ND		ug/L		NC	22
Ethylbenzene	1.9		1.97		ug/L		1	35
Hexachlorobutadiene	ND		ND		ug/L		NC	25
Isopropylbenzene	3.1		3.17		ug/L		4	16
m,p-Xylene	5.1		5.54		ug/L		9	35
Methyl tert-butyl ether	ND		ND		ug/L		NC	18
Methylene Chloride	ND		ND		ug/L		NC	25
Naphthalene	3.6		3.81		ug/L		7	25
n-Butylbenzene	5.7		5.82		ug/L		2	16
N-Propylbenzene	5.6		5.52		ug/L		2	18
o-Xylene	ND		ND		ug/L		NC	35
p-Isopropyltoluene	1.9		1.91		ug/L		0.7	17
sec-Butylbenzene	2.7		2.80		ug/L		2	17
Styrene	ND		ND		ug/L		NC	17
tert-Butylbenzene	ND		ND		ug/L		NC	18
Tetrachloroethene	ND		ND		ug/L		NC	20
Toluene	ND		ND		ug/L		NC	35
trans-1,2-Dichloroethene	ND		ND		ug/L		NC	18
trans-1,3-Dichloropropene	ND		ND		ug/L		NC	17
Trichloroethene	ND		ND		ug/L		NC	14
Trichlorofluoromethane	ND		ND		ug/L		NC	24
Vinyl chloride	ND		ND		ug/L		NC	26

Surrogate	DU %Recovery	DU Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		80 - 120
4-Bromofluorobenzene (Surr)	97		76 - 120
Dibromofluoromethane (Surr)	101		80 - 123
Toluene-d8 (Surr)	95		80 - 120

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Lone Airport Kwik Stop/0504-058-07

Job ID: 590-22374-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

**Lab Sample ID: MB 590-45002/7**  
**Matrix: Water**  
**Analysis Batch: 45002**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	54	ug/L			12/08/23 12:39	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		68.7 - 141					12/08/23 12:39	1

**Lab Sample ID: LCS 590-45002/1006**  
**Matrix: Water**  
**Analysis Batch: 45002**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline	1000	884		ug/L		88	80 - 120
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	104		68.7 - 141				

**Lab Sample ID: LCSD 590-45002/1017**  
**Matrix: Water**  
**Analysis Batch: 45002**

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Gasoline	1000	913		ug/L		91	80 - 120	3	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	99		68.7 - 141						

**Lab Sample ID: 590-22374-1 DU**  
**Matrix: Water**  
**Analysis Batch: 45002**

**Client Sample ID: MW-3: 113023**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Gasoline	540		609		ug/L		13	35
Surrogate	DU %Recovery	DU Qualifier	Limits					
4-Bromofluorobenzene (Surr)	97		68.7 - 141					

## Method: RSK-175 - Dissolved Gases (GC)

**Lab Sample ID: MB 280-635886/5**  
**Matrix: Water**  
**Analysis Batch: 635886**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		5.0	0.63	ug/L			12/02/23 17:19	1

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# QC Sample Results

Client: GeoEngineers Inc  
 Project/Site: Ione Airport Kwik Stop/0504-058-07

Job ID: 590-22374-1

## Method: RSK-175 - Dissolved Gases (GC) (Continued)

**Lab Sample ID: LCS 280-635886/3**  
**Matrix: Water**  
**Analysis Batch: 635886**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methane	65.7	62.7		ug/L		95	75 - 125

**Lab Sample ID: LCSD 280-635886/4**  
**Matrix: Water**  
**Analysis Batch: 635886**

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methane	65.7	65.2		ug/L		99	75 - 125	4	20

**Lab Sample ID: MB 280-636538/5**  
**Matrix: Water**  
**Analysis Batch: 636538**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		5.0	0.63	ug/L			12/07/23 19:05	1

**Lab Sample ID: LCS 280-636538/3**  
**Matrix: Water**  
**Analysis Batch: 636538**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methane	65.7	65.6		ug/L		100	75 - 125

**Lab Sample ID: LCSD 280-636538/4**  
**Matrix: Water**  
**Analysis Batch: 636538**

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methane	65.7	63.7		ug/L		97	75 - 125	3	20

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: MB 590-44902/1003**  
**Matrix: Water**  
**Analysis Batch: 44902**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.80	0.42	mg/L			12/01/23 11:18	1
Sulfate	ND		0.50	0.13	mg/L			12/01/23 11:18	1

**Lab Sample ID: LCS 590-44902/1004**  
**Matrix: Water**  
**Analysis Batch: 44902**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	12.5	12.5		mg/L		100	90 - 110
Sulfate	12.5	12.3		mg/L		98	90 - 110

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# QC Sample Results

Client: GeoEngineers Inc  
 Project/Site: Lone Airport Kwik Stop/0504-058-07

Job ID: 590-22374-1

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

**Lab Sample ID: MB 590-44903/1003**  
**Matrix: Water**  
**Analysis Batch: 44903**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.20	0.057	mg/L			12/01/23 11:18	1
Nitrite as N	ND		0.20	0.069	mg/L			12/01/23 11:18	1

**Lab Sample ID: LCS 590-44903/1004**  
**Matrix: Water**  
**Analysis Batch: 44903**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	5.00	4.98		mg/L		100	90 - 110
Nitrite as N	5.00	4.95		mg/L		99	90 - 110

**Lab Sample ID: MB 590-44937/1003**  
**Matrix: Water**  
**Analysis Batch: 44937**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.80	0.42	mg/L			12/05/23 13:48	1
Sulfate	ND		0.50	0.13	mg/L			12/05/23 13:48	1

**Lab Sample ID: LCS 590-44937/1004**  
**Matrix: Water**  
**Analysis Batch: 44937**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	12.5	12.1		mg/L		97	90 - 110
Sulfate	12.5	12.3		mg/L		99	90 - 110

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

**Lab Sample ID: MB 580-445619/18-A**  
**Matrix: Water**  
**Analysis Batch: 445775**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 445619**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0050	0.0010	mg/L		12/06/23 16:38	12/08/23 08:01	5
Cadmium	ND		0.0020	0.00019	mg/L		12/06/23 16:38	12/08/23 08:01	5
Iron	ND		0.50	0.067	mg/L		12/06/23 16:38	12/08/23 08:01	5
Lead	ND		0.0020	0.00020	mg/L		12/06/23 16:38	12/08/23 08:01	5
Manganese	ND		0.010	0.0023	mg/L		12/06/23 16:38	12/08/23 08:01	5
Zinc	ND		0.035	0.0046	mg/L		12/06/23 16:38	12/08/23 08:01	5

**Lab Sample ID: LCS 580-445619/19-A**  
**Matrix: Water**  
**Analysis Batch: 445775**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 445619**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	1.00	0.953		mg/L		95	80 - 120
Cadmium	1.00	0.977		mg/L		98	80 - 120
Iron	20.0	20.0		mg/L		100	80 - 120
Lead	1.00	0.960		mg/L		96	80 - 120

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# QC Sample Results

Client: GeoEngineers Inc  
 Project/Site: Lone Airport Kwik Stop/0504-058-07

Job ID: 590-22374-1

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

**Lab Sample ID: LCS 580-445619/19-A**  
**Matrix: Water**  
**Analysis Batch: 445775**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 445619**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	1.00	0.991		mg/L		99	80 - 120
Zinc	1.00	0.968		mg/L		97	80 - 120

**Lab Sample ID: LCSD 580-445619/20-A**  
**Matrix: Water**  
**Analysis Batch: 445775**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total Recoverable**  
**Prep Batch: 445619**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	1.00	0.957		mg/L		96	80 - 120	0	20
Cadmium	1.00	0.962		mg/L		96	80 - 120	2	20
Iron	20.0	19.9		mg/L		100	80 - 120	1	20
Lead	1.00	0.950		mg/L		95	80 - 120	1	20
Manganese	1.00	0.980		mg/L		98	80 - 120	1	20
Zinc	1.00	0.979		mg/L		98	80 - 120	1	20

**Lab Sample ID: MB 580-445715/15-B**  
**Matrix: Water**  
**Analysis Batch: 445927**

**Client Sample ID: Method Blank**  
**Prep Type: Dissolved**  
**Prep Batch: 445810**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0010	0.00020	mg/L		12/08/23 15:08	12/11/23 14:57	1
Cadmium	ND		0.00040	0.000037	mg/L		12/08/23 15:08	12/11/23 14:57	1
Iron	ND		0.10	0.013	mg/L		12/08/23 15:08	12/11/23 14:57	1
Lead	ND		0.00040	0.000040	mg/L		12/08/23 15:08	12/11/23 14:57	1
Manganese	ND		0.0020	0.00046	mg/L		12/08/23 15:08	12/11/23 14:57	1
Zinc	ND		0.0070	0.00093	mg/L		12/08/23 15:08	12/11/23 14:57	1

**Lab Sample ID: LCS 580-445715/16-B**  
**Matrix: Water**  
**Analysis Batch: 445927**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Dissolved**  
**Prep Batch: 445810**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	1.00	1.02		mg/L		102	80 - 120
Cadmium	1.00	1.00		mg/L		100	80 - 120
Iron	20.0	21.2		mg/L		106	80 - 120
Lead	1.00	0.988		mg/L		99	80 - 120
Manganese	1.00	1.05		mg/L		105	80 - 120
Zinc	1.00	1.04		mg/L		104	80 - 120

**Lab Sample ID: LCSD 580-445715/17-B**  
**Matrix: Water**  
**Analysis Batch: 445927**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Dissolved**  
**Prep Batch: 445810**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	1.00	1.03		mg/L		103	80 - 120	1	20
Cadmium	1.00	1.03		mg/L		103	80 - 120	2	20
Iron	20.0	21.3		mg/L		106	80 - 120	1	20
Lead	1.00	1.00		mg/L		100	80 - 120	2	20
Manganese	1.00	1.04		mg/L		104	80 - 120	0	20
Zinc	1.00	1.03		mg/L		103	80 - 120	0	20

Eurofins Spokane

# QC Sample Results

Client: GeoEngineers Inc  
 Project/Site: Lone Airport Kwik Stop/0504-058-07

Job ID: 590-22374-1

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

**Lab Sample ID: 590-22374-3 MS**  
**Matrix: Water**  
**Analysis Batch: 446003**

**Client Sample ID: MW-9: 113023**  
**Prep Type: Dissolved**  
**Prep Batch: 445810**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier		Result	Qualifier					
Arsenic	ND		1.00	1.01		mg/L		101		80 - 120
Cadmium	ND		1.00	0.989		mg/L		99		80 - 120
Iron	ND		20.0	20.8		mg/L		104		80 - 120
Lead	ND		1.00	0.972		mg/L		97		80 - 120
Manganese	ND		1.00	1.02		mg/L		102		80 - 120
Zinc	ND		1.00	1.02		mg/L		102		80 - 120

**Lab Sample ID: 590-22374-3 MSD**  
**Matrix: Water**  
**Analysis Batch: 446003**

**Client Sample ID: MW-9: 113023**  
**Prep Type: Dissolved**  
**Prep Batch: 445810**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier							
Arsenic	ND		1.00	1.01		mg/L		101		80 - 120	0	20
Cadmium	ND		1.00	0.999		mg/L		100		80 - 120	1	20
Iron	ND		20.0	20.5		mg/L		103		80 - 120	1	20
Lead	ND		1.00	0.990		mg/L		99		80 - 120	2	20
Manganese	ND		1.00	1.02		mg/L		102		80 - 120	0	20
Zinc	ND		1.00	1.01		mg/L		101		80 - 120	1	20

**Lab Sample ID: 590-22374-8 MS**  
**Matrix: Water**  
**Analysis Batch: 445927**

**Client Sample ID: DUP 1: 113023**  
**Prep Type: Dissolved**  
**Prep Batch: 445810**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier		Result	Qualifier					
Arsenic	0.0013	J	1.00	1.03		mg/L		102		80 - 120
Cadmium	ND		1.00	1.03		mg/L		103		80 - 120
Iron	0.085	J	20.0	20.9		mg/L		104		80 - 120
Lead	ND		1.00	0.993		mg/L		99		80 - 120
Manganese	0.71		1.00	1.72		mg/L		102		80 - 120
Zinc	ND		1.00	1.03		mg/L		103		80 - 120

**Lab Sample ID: 590-22374-8 MSD**  
**Matrix: Water**  
**Analysis Batch: 445927**

**Client Sample ID: DUP 1: 113023**  
**Prep Type: Dissolved**  
**Prep Batch: 445810**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier							
Arsenic	0.0013	J	1.00	1.05		mg/L		105		80 - 120	2	20
Cadmium	ND		1.00	1.03		mg/L		103		80 - 120	0	20
Iron	0.085	J	20.0	20.7		mg/L		103		80 - 120	1	20
Lead	ND		1.00	1.00		mg/L		100		80 - 120	1	20
Manganese	0.71		1.00	1.73		mg/L		102		80 - 120	0	20
Zinc	ND		1.00	1.04		mg/L		104		80 - 120	2	20

**Lab Sample ID: 590-22374-8 DU**  
**Matrix: Water**  
**Analysis Batch: 445927**

**Client Sample ID: DUP 1: 113023**  
**Prep Type: Dissolved**  
**Prep Batch: 445810**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier		Result				
Arsenic	0.0013	J	0.00152	J	mg/L		15	20

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# QC Sample Results

Client: GeoEngineers Inc  
 Project/Site: Lone Airport Kwik Stop/0504-058-07

Job ID: 590-22374-1

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

Lab Sample ID: 590-22374-8 DU  
 Matrix: Water  
 Analysis Batch: 445927

Client Sample ID: DUP 1: 113023  
 Prep Type: Dissolved  
 Prep Batch: 445810

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD
	Result	Qualifier	Result	Qualifier				
Cadmium	ND		ND		mg/L		NC	20
Iron	0.085	J	0.0803	J	mg/L		6	20
Lead	ND		ND		mg/L		NC	20
Manganese	0.71		0.693		mg/L		2	20
Zinc	ND		ND		mg/L		NC	20

## Method: SM 2320B - Alkalinity

Lab Sample ID: MB 590-45031/1  
 Matrix: Water  
 Analysis Batch: 45031

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Alkalinity	5.00	J	20	5.0	mg/L			12/11/23 11:29	1
Bicarbonate Alkalinity as CaCO3	5.00	J	20	5.0	mg/L			12/11/23 11:29	1

Lab Sample ID: LCS 590-45031/2  
 Matrix: Water  
 Analysis Batch: 45031

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec
		Result	Qualifier				
Alkalinity	501	500		mg/L		100	90 - 110

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

Lab Sample ID: MB 590-44911/1  
 Matrix: Water  
 Analysis Batch: 44911

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Dissolved Solids	ND		25	13	mg/L			12/04/23 09:53	1

Lab Sample ID: LCS 590-44911/2  
 Matrix: Water  
 Analysis Batch: 44911

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec
		Result	Qualifier				
Total Dissolved Solids	503	493		mg/L		98	80 - 120

## Method: SM 5310B - Organic Carbon, Total (TOC)

Lab Sample ID: MB 280-636746/21  
 Matrix: Water  
 Analysis Batch: 636746

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Organic Carbon - Duplicates	ND		1.0	0.35	mg/L			12/09/23 03:08	1

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# QC Sample Results

Client: GeoEngineers Inc  
 Project/Site: Lone Airport Kwik Stop/0504-058-07

Job ID: 590-22374-1

## Method: SM 5310B - Organic Carbon, Total (TOC) (Continued)

**Lab Sample ID: MB 280-636746/4**  
**Matrix: Water**  
**Analysis Batch: 636746**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	ND		1.0	0.35	mg/L			12/08/23 20:40	1

**Lab Sample ID: LCS 280-636746/20**  
**Matrix: Water**  
**Analysis Batch: 636746**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Duplicates	25.0	24.2		mg/L		97	88 - 112

**Lab Sample ID: LCS 280-636746/3**  
**Matrix: Water**  
**Analysis Batch: 636746**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Duplicates	25.0	24.3		mg/L		97	88 - 112

# Lab Chronicle

Client: GeoEngineers Inc  
 Project/Site: Lone Airport Kwik Stop/0504-058-07

Job ID: 590-22374-1

**Client Sample ID: MW-3: 113023**

**Lab Sample ID: 590-22374-1**

**Date Collected: 11/30/23 10:45**

**Matrix: Water**

**Date Received: 11/30/23 15:14**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	45001	12/08/23 15:13	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	45002	12/08/23 15:13	JSP	EET SPK
Total/NA	Analysis	RSK-175		1	20 mL	20 mL	635886	12/02/23 22:04	SJD	EET DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	44902	12/01/23 13:55	NMI	EET SPK
Total/NA	Analysis	300.0		1	5 mL	5 mL	44903	12/01/23 13:55	NMI	EET SPK
Dissolved	Filtration	FILTRATION			250 mL	250 mL	445715	12/07/23 15:14	AUA	EET SEA
Dissolved	Prep	3005A			50 mL	50 mL	445810	12/08/23 15:08	TMH	EET SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	446003	12/11/23 16:29	TMH	EET SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	445619	12/06/23 16:38	TMH	EET SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	445775	12/08/23 09:24	FCW	EET SEA
Total/NA	Analysis	SM 2320B		1	100 mL	100 mL	45031	12/11/23 11:29	AMB	EET SPK
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	44911	12/04/23 09:53	AMB	EET SPK
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	636746	12/09/23 06:59	ABW	EET DEN

**Client Sample ID: MW-8: 113023**

**Lab Sample ID: 590-22374-2**

**Date Collected: 11/30/23 12:15**

**Matrix: Water**

**Date Received: 11/30/23 15:14**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	45001	12/08/23 15:56	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	45002	12/08/23 15:56	JSP	EET SPK
Total/NA	Analysis	RSK-175		1	20 mL	20 mL	635886	12/02/23 22:17	SJD	EET DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	44902	12/01/23 14:05	NMI	EET SPK
Total/NA	Analysis	300.0		1	5 mL	5 mL	44903	12/01/23 14:05	NMI	EET SPK
Total/NA	Analysis	300.0		10	5 mL	5 mL	44937	12/05/23 15:07	NMI	EET SPK
Dissolved	Filtration	FILTRATION			250 mL	250 mL	445715	12/07/23 15:14	AUA	EET SEA
Dissolved	Prep	3005A			50 mL	50 mL	445810	12/08/23 15:08	TMH	EET SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	446003	12/11/23 16:32	TMH	EET SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	445619	12/06/23 16:38	TMH	EET SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	445775	12/08/23 09:27	FCW	EET SEA
Total/NA	Analysis	SM 2320B		1	100 mL	100 mL	45031	12/11/23 11:29	AMB	EET SPK
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	44911	12/04/23 09:53	AMB	EET SPK
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	636746	12/08/23 23:03	ABW	EET DEN

**Client Sample ID: MW-9: 113023**

**Lab Sample ID: 590-22374-3**

**Date Collected: 11/30/23 09:10**

**Matrix: Water**

**Date Received: 11/30/23 15:14**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	45001	12/08/23 16:39	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	45002	12/08/23 16:39	JSP	EET SPK
Total/NA	Analysis	RSK-175		1	20 mL	20 mL	635886	12/02/23 22:31	SJD	EET DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	44902	12/01/23 14:15	NMI	EET SPK

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# Lab Chronicle

Client: GeoEngineers Inc  
Project/Site: Lone Airport Kwik Stop/0504-058-07

Job ID: 590-22374-1

**Client Sample ID: MW-9: 113023**

**Lab Sample ID: 590-22374-3**

**Date Collected: 11/30/23 09:10**

**Matrix: Water**

**Date Received: 11/30/23 15:14**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	5 mL	5 mL	44903	12/01/23 14:15	NMI	EET SPK
Dissolved	Filtration	FILTRATION			250 mL	250 mL	445715	12/07/23 15:14	AUA	EET SEA
Dissolved	Prep	3005A			50 mL	50 mL	445810	12/08/23 15:08	TMH	EET SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	446003	12/11/23 16:21	TMH	EET SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	445619	12/06/23 16:38	TMH	EET SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	445775	12/08/23 09:22	FCW	EET SEA
Total/NA	Analysis	SM 2320B		1	100 mL	100 mL	45031	12/11/23 11:29	AMB	EET SPK
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	44911	12/04/23 09:53	AMB	EET SPK
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	636746	12/08/23 23:30	ABW	EET DEN

**Client Sample ID: MW-10: 112923**

**Lab Sample ID: 590-22374-4**

**Date Collected: 11/29/23 13:50**

**Matrix: Water**

**Date Received: 11/30/23 15:14**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	45001	12/08/23 17:01	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	45002	12/08/23 17:01	JSP	EET SPK

**Client Sample ID: MW-11: 112923**

**Lab Sample ID: 590-22374-5**

**Date Collected: 11/29/23 12:50**

**Matrix: Water**

**Date Received: 11/30/23 15:14**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	45001	12/08/23 17:22	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	45002	12/08/23 17:22	JSP	EET SPK

**Client Sample ID: MW-15: 112923**

**Lab Sample ID: 590-22374-6**

**Date Collected: 11/29/23 11:20**

**Matrix: Water**

**Date Received: 11/30/23 15:14**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	45001	12/08/23 17:44	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	45002	12/08/23 17:44	JSP	EET SPK

**Client Sample ID: MW-18: 112923**

**Lab Sample ID: 590-22374-7**

**Date Collected: 11/29/23 14:50**

**Matrix: Water**

**Date Received: 11/30/23 15:14**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	45001	12/08/23 18:05	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	45002	12/08/23 18:05	JSP	EET SPK

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# Lab Chronicle

Client: GeoEngineers Inc  
 Project/Site: Lone Airport Kwik Stop/0504-058-07

Job ID: 590-22374-1

**Client Sample ID: DUP 1: 113023**

**Lab Sample ID: 590-22374-8**

**Date Collected: 11/30/23 09:00**

**Matrix: Water**

**Date Received: 11/30/23 15:14**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	45001	12/08/23 18:27	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	45002	12/08/23 18:27	JSP	EET SPK
Total/NA	Analysis	RSK-175		1	20 mL	20 mL	636538	12/07/23 23:36	SJD	EET DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	44902	12/01/23 14:25	NMI	EET SPK
Total/NA	Analysis	300.0		1	5 mL	5 mL	44903	12/01/23 14:25	NMI	EET SPK
Total/NA	Analysis	300.0		10	5 mL	5 mL	44937	12/05/23 15:17	NMI	EET SPK
Dissolved	Filtration	FILTRATION			250 mL	250 mL	445715	12/07/23 15:14	AUA	EET SEA
Dissolved	Prep	3005A			50 mL	50 mL	445810	12/08/23 15:08	TMH	EET SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	445927	12/11/23 15:08	FCW	EET SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	445619	12/06/23 16:38	TMH	EET SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	445775	12/08/23 09:19	FCW	EET SEA
Total/NA	Analysis	SM 2320B		1	100 mL	100 mL	45031	12/11/23 11:29	AMB	EET SPK
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	44911	12/04/23 09:53	AMB	EET SPK
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	636746	12/08/23 23:47	ABW	EET DEN

**Laboratory References:**

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100  
 EET SEA = Eurofins Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310  
 EET SPK = Eurofins Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

# Accreditation/Certification Summary

Client: GeoEngineers Inc  
 Project/Site: Lone Airport Kwik Stop/0504-058-07

Job ID: 590-22374-1

## Laboratory: Eurofins Spokane

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Washington	State	C569	01-07-24
<p>The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.</p>			
Analysis Method	Prep Method	Matrix	Analyte
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3

## Laboratory: Eurofins Denver

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-24
A2LA	ISO/IEC 17025	2907.01	10-31-25
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-10-24
Arizona	State	AZ0713	12-20-23
Arkansas DEQ	State	19-047-0	05-31-23 *
California	State	2513	01-09-24
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-24
Georgia	State	4025-011	01-08-24
Illinois	NELAP	2000172019-1	04-30-24
Iowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-24
Kentucky (WW)	State	KY98047	12-31-23
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-23 *
Louisiana (All)	NELAP	30785	06-30-24
Minnesota	NELAP	1788752	12-31-23
Nevada	State	CO000262020-1	07-31-24
New Hampshire	NELAP	2053	04-28-24
New Jersey	NELAP	230001	06-30-24
New York	NELAP	59923	03-31-24
North Carolina (WW/SW)	State	358	12-31-23
North Dakota	State	R-034	01-08-24
Oklahoma	NELAP	8614	08-31-24
Oregon	NELAP	4025-019	01-08-24
Pennsylvania	NELAP	013	07-31-24
South Carolina	State	72002001	01-08-24
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	09-30-24
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-24
Virginia	NELAP	460232	06-14-24
Washington	State	C583	08-03-24
West Virginia DEP	State	354	11-30-24
Wisconsin	State	999615430	08-31-24
Wyoming (UST)	A2LA	2907.01	10-31-25

## Laboratory: Eurofins Seattle

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# Accreditation/Certification Summary

Client: GeoEngineers Inc  
Project/Site: Lone Airport Kwik Stop/0504-058-07

Job ID: 590-22374-1

## Laboratory: Eurofins Seattle (Continued)

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

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-004	02-19-25
ANAB	Dept. of Defense ELAP	L2236	01-19-25
ANAB	Dept. of Energy	L2236	01-19-25
ANAB	ISO/IEC 17025	L2236	01-19-25
California	State	2954	07-07-24
Florida	NELAP	E87575	06-30-24
Louisiana (All)	NELAP	03073	07-01-24
Maine	State	WA01273	05-02-24
Montana (UST)	State	NA	04-14-27
New Jersey	NELAP	WA014	06-30-24
New York	NELAP	11662	03-31-24
Oregon	NELAP	4167	07-07-24
US Fish & Wildlife	US Federal Programs	A20571	06-30-24
USDA	US Federal Programs	525-23-4-22573	01-04-26
Washington	State	C788	07-13-24
Wisconsin	State	399133460	08-31-24

# Method Summary

Client: GeoEngineers Inc  
Project/Site: Lone Airport Kwik Stop/0504-058-07

Job ID: 590-22374-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SPK
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC/MS)	NWTPH	EET SPK
RSK-175	Dissolved Gases (GC)	RSK	EET DEN
300.0	Anions, Ion Chromatography	EPA	EET SPK
6020B	Metals (ICP/MS)	SW846	EET SEA
SM 2320B	Alkalinity	SM	EET SPK
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET SPK
SM 5310B	Organic Carbon, Total (TOC)	SM	EET DEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SEA
5030C	Purge and Trap	SW846	EET SPK
FILTRATION	Sample Filtration	None	EET SEA

#### Protocol References:

EPA = US Environmental Protection Agency

None = None

NWTPH = Northwest Total Petroleum Hydrocarbon

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

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

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

#### Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

EET SEA = Eurofins Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

EET SPK = Eurofins Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200



Chain of Custody Record

<b>Client Information</b>			Sampler: 106 O.			Lab PM: Arrington Randee E			Carrier Tracking No(s):			COC No: 590-9177-2634 1					
Client Contact: Justin Orr			Phone:			E-Mail: Randee.Arrington@eurofins.com			State of Origin:			Page: Page 1 of 1					
Company: GeoEngineers Inc						Analysis Requested						Job #:					
Address: 523 East Second Ave			Due Date Requested:			Field Filtered Sample (Yes or No) 2320B Alk/Bicarb. 2540C TDS, 300-CI, NO3, NO2 & SO4 8020B Total As, Cd, Fe, Mn, Pb & Zn 8020E Diss As, Cd, Fe, Mn, Pb & Zn 8010D Total K, Mg & Na, 7470A Total Hg 8010D Dissolved Ca & Mg, 7470 Dissolved Hg Netmurd SM6S10B TOC 4500_CN_LP Cyanide, Weak Acid Dissociable 8250D Standard Analyte List / BTEXN 8270E Semivolatiles, standard list 8150A Ascorbic Acid, 8150B Ascorbic Acid, 8150C Ascorbic Acid, 8150D Ascorbic Acid, 8150E Ascorbic Acid, 8150F Ascorbic Acid, 8150G Ascorbic Acid, 8150H Ascorbic Acid, 8150I Ascorbic Acid, 8150J Ascorbic Acid, 8150K Ascorbic Acid, 8150L Ascorbic Acid, 8150M Ascorbic Acid, 8150N Ascorbic Acid, 8150O Ascorbic Acid, 8150P Ascorbic Acid, 8150Q Ascorbic Acid, 8150R Ascorbic Acid, 8150S Ascorbic Acid, 8150T Ascorbic Acid, 8150U Ascorbic Acid, 8150V Ascorbic Acid, 8150W Ascorbic Acid, 8150X Ascorbic Acid, 8150Y Ascorbic Acid, 8150Z Ascorbic Acid Nitrate & Nitrite EPA 1633 WATPH-GX Total Number of containers			Preservation Codes A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ica, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify) Other:								
City: Spokane			TAT Requested (days): STD														
State, Zip: WA, 99202			Compliance Project: Δ Yes Δ No														
Phone:			PO #:														
Email: jorr@geoengineers.com			Purchase Order not required			WO #:			Project #:			SSOW#:					
Project Name: Marshall Landfill			Project #:			SSOW#:											
Site:																	
<b>Sample Identification</b>			<b>Sample Date</b>			<b>Sample Time</b>			<b>Sample Type (C=comp, G=grab)</b>			<b>Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)</b>			<b>Special Instructions/Note:</b>		
MW-3: 113023			11/30/23			1045			G			Water					
MW-8: 113023			11/30/23			1215			G			Water					
MW-9: 113023			11/30/23			0910			G			Water					
MW-10: 112923			11/29/23			1350			G			Water					
MW-11: 112923			11/29/23			1250			G			Water					
MW-15: 112923			11/29/23			1120			G			Water					
MW-18: 112923			11/29/23			1450			G			Water					
Dupl: 113023			11/30/23			0900			G			Water					
TRIP Blank																	
<b>Possible Hazard Identification</b>						<b>Sample Disposal ( A fee may be assessed if se</b>						590-22374 Chain of Custody					
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lt											
Deliverable Requested: I, II, III, IV Other (specify)						Special Instructions/QC Requirements:											
Empty Kit Relinquished by:			Date:			Time:			Method of Shipment:								
Relinquished by: 106 O.			Date/Time: 11/30/23 / 1530			Company:			Received by: [Signature]			Date/Time: 11/30/23 15:14			Company: REC2PO		
Relinquished by:			Date/Time:			Company:			Received by:			Date/Time:			Company:		
Relinquished by:			Date/Time:			Company:			Received by:			Date/Time:			Company:		
Custody Seals Intact: Δ Yes Δ No			Custody Seal No.:			Cooler Temperature(s) °C and Other Remarks: 4.7, 4.8, com 11/30/23											

**Eurofins Spokane**

11922 East 1st Ave  
 Spokane, WA 99206  
 Phone: 509-924-9200 Fax: 509-924-9290

**Chain of Custody Record**



Environment Testing

<b>Client Information (Sub Contract Lab)</b>	Sampler:	Lab PM: Arrington, Randee E	Carrier Tracking No(s):	COC No: 590-8452.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Randee.Arrington@et.eurofinsus.com	State of Origin: Washington	Page: Page 1 of 1

Company: TestAmerica Laboratories, Inc.	Accreditations Required (See note): State Program - Washington	Job #: 590-22374-1
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Address: 4955 Yarrow Street, City: Arvada State, Zip: CO, 80002 Phone: 303-736-0100(Tel) 303-431-7171(Fax) Email:	Due Date Requested: 12/13/2023 TAT Requested (days): PO #: WO #:	<b>Analysis Requested</b>	<b>Preservation Codes:</b> A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)  Other:
Project Name: Marshall Landfill Site:	Project #: 59002669 SSOW#:		

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM5310B/ (MOD) TOC	RSK_175/ (MOD) Methane											Total Number of containers	Special Instructions/Note:		
																					Preservation Code:	
MW-3: 113023 (590-22374-1)	11/30/23	10:45 Pacific		Water			X	X												4		
MW-8: 113023 (590-22374-2)	11/30/23	12:15 Pacific		Water			X	X													4	
MW-9: 113023 (590-22374-3)	11/30/23	09:10 Pacific		Water			X	X													4	
DUP 1: 113023 (590-22374-8)	11/30/23	09:00 Pacific		Water			X	X													4	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northwest, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northwest, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northwest, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northwest, LLC.

<b>Possible Hazard Identification</b> Unconfirmed	<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b> <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 2
Special Instructions/QC Requirements:	

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: <i>[Signature]</i>	Date/Time: 12/1/23 15:00	Company: EBT SPO	Received by: <i>[Signature]</i>
Relinquished by:	Date/Time:	Company:	Received by:
Relinquished by:	Date/Time:	Company:	Received by:

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.0 °C APPA CF 0.2
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**ICOC No:**  
590-8452

**Containers**

**Count**

4

12

**Container Type**

Amber Glass 250ml - Sulfuric Acid

Voa Vial 40ml - Hydrochloric Acid

**Preservative**

Sulfuric Acid

Hydrochloric Acid

**Eurofins Spokane**

11922 East 1st Ave  
 Spokane, WA 99206  
 Phone: 509-924-9200 Fax: 509-924-9290

**Chain of Custody Record**



Environment Testing

<b>Client Information (Sub Contract Lab)</b>				Lab PM: Arrington, Randee E		Carrier Tracking No(s):		COC No: 590-8456.1	
Client Contact: Shipping/Receiving				Phone:		E-Mail: Randee.Arrington@et.eurofinsus.com		State of Origin: Washington	
Company: Eurofins Environment Testing Northwest,				Address: 5755 8th Street East,		City: Tacoma		State, Zip: WA, 98424	
Due Date Requested: 12/13/2023				TAT Requested (days):		<b>Analysis Requested</b>			
PO #:				WO #:					
Project Name: Marshall Landfill				Project #: 59002669		SSOW#:		Preservation Codes:	
Site:				Sample Date		Sample Time		Sample Type (C=comp, G=grab)	
Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)				Field Filtered Sample (Yes or No)		Perform IMS/MSD (Yes or No)		Total Number of containers	
Special Instructions/Note:				6020B/3005A (MOD) Total As, Cd, Fe, Mn, Pb & Zn		6020B/FILTRATION (MOD) Diss As, Cd, Fe, Mn, Pb & Zn		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify) Other:	
Preservation Code:									
MW-3: 113023 (590-22374-1)				11/30/23		10:45 Pacific		Water	
MW-8: 113023 (590-22374-2)				11/30/23		12:15 Pacific		Water	
MW-9: 113023 (590-22374-3)				11/30/23		09:10 Pacific		Water	
DUP 1: 113023 (590-22374-8)				11/30/23		09:00 Pacific		Water	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northwest, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northwest, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northwest, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northwest, LLC.

<b>Possible Hazard Identification</b>			<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>		
Unconfirmed			<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		
Deliverable Requested: I, II, III, IV, Other (specify)		Primary Deliverable Rank: 2	Special Instructions/QC Requirements:		

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:	
Relinquished by:		Date/Time: 12/4/23 14:35	Company: EET SP8	Received by:	
Relinquished by:		Date/Time:	Company:	Received by:	
Relinquished by:		Date/Time:	Company:	Received by:	

Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: IR11 10.8/11.0
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# Login Sample Receipt Checklist

Client: GeoEngineers Inc

Job Number: 590-22374-1

**Login Number: 22374**

**List Source: Eurofins Spokane**

**List Number: 1**

**Creator: Morris, Mackenzie 1**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# Login Sample Receipt Checklist

Client: GeoEngineers Inc

Job Number: 590-22374-1

**Login Number: 22374**  
**List Number: 2**  
**Creator: Little, Matthew L**

**List Source: Eurofins Denver**  
**List Creation: 12/02/23 10:54 AM**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# Login Sample Receipt Checklist

Client: GeoEngineers Inc

Job Number: 590-22374-1

**Login Number: 22374**  
**List Number: 3**  
**Creator: Prigge, Madison**

**List Source: Eurofins Seattle**  
**List Creation: 12/05/23 06:20 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	IR11 10.8/11.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

**APPENDIX C**  
**Report Limitations and Guidelines for Use**



## **APPENDIX C REPORT LIMITATIONS AND GUIDELINES FOR USE<sup>1</sup>**

This Appendix provides information to help you manage your risks with respect to the use of this report.

### **Environmental Services Are Performed for Specific Purposes, Persons and Projects**

This report has been prepared for the exclusive use of the Washington State Department of Ecology (Ecology). This report is not intended for use by others, and the information contained herein is not applicable to other sites.

GeoEngineers structures our services to meet the specific needs of our clients. For example, an environmental site assessment study conducted for a property owner may not fulfill the needs of a prospective purchaser of the same property. Because each environmental study is unique, each environmental report is unique, prepared solely for the specific client and project site. No one except Ecology should rely on this environmental report without first conferring with GeoEngineers. This report should not be applied for any purpose or project except the one originally contemplated.

### **This Environmental Report is Based on a Unique Set of Project-Specific Factors**

This report has been prepared for the Airport Kwik Stop site located in Lone, Washington. GeoEngineers considered a number of unique, project-specific factors when establishing the scope of services for this project and report. Unless GeoEngineers specifically indicates otherwise, do not rely on this report if it was:

- Not prepared for you,
- Not prepared for your project,
- Not prepared for the specific site explored, or
- Completed before important project changes were made.

If important changes are made after the date of this report, GeoEngineers should be given the opportunity to review our interpretations and recommendations and provide written modifications or confirmation, as appropriate.

### **Reliance Conditions for Third Parties**

Our report was prepared for the exclusive use of Ecology. No other party may rely on the product of our services unless we agree in advance to such reliance in writing. This is to provide our firm and Ecology with reasonable protection against open-ended liability claims by third parties with whom there would otherwise be no contractual limits to their actions. Within the limitations of scope, schedule and budget, our services have been executed in accordance with our Agreement with Ecology and generally accepted environmental practices in this area at the time this report was prepared.

### **Environmental Regulations are Always Evolving**

Some substances may be present in the site vicinity in quantities or under conditions that may have led, or may lead, to contamination of the subject site, but are not included in current local, state or federal

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<sup>1</sup> Developed based on material provided by ASFE, Professional Firms Practicing in the Geosciences; [www.asfe.org](http://www.asfe.org).

regulatory definitions of hazardous substances or do not otherwise present current potential liability. GeoEngineers cannot be responsible if the standards for appropriate inquiry, or regulatory definitions of hazardous substance, change or if more stringent environmental standards are developed in the future.

### **Uncertainty May Remain Even After This Phase II ESA is Completed**

No Environmental Site Assessment (ESA) can wholly eliminate uncertainty regarding the potential for contamination in connection with a property. Our interpretation of subsurface conditions in this study is based on field observations and chemical analytical data from widely spaced sampling locations. It is always possible that contamination exists in areas that were not explored, sampled or analyzed.

### **Subsurface Conditions Can Change**

This environmental report is based on conditions that existed at the time the study was performed. The findings and conclusions of this report may be affected by the passage of time, by manmade events such as construction on or adjacent to the site, by new releases of hazardous substances, or by natural events such as floods, earthquakes, slope instability or groundwater fluctuations. Always contact GeoEngineers before applying this report to determine if it is still applicable.

### **Most Environmental Findings are Professional Opinions**

Our interpretations of subsurface conditions are based on field observations and chemical analytical data from widely spaced sampling locations at the site. Site exploration identifies subsurface conditions only at those points where subsurface tests are conducted, or samples are taken. GeoEngineers reviewed field and laboratory data and then applied our professional judgment to render an opinion about subsurface conditions throughout the site. Actual subsurface conditions may differ – sometimes significantly – from those indicated in this report. Our report, conclusions and interpretations should not be construed as a warranty of the subsurface conditions.

### **Do Not Redraw the Exploration Logs**

Environmental scientists prepare final boring and testing logs based upon their interpretation of field logs and laboratory data. To prevent errors or omissions, the logs included in an environmental report should never be redrawn for inclusion in other design drawings. Only photographic or electronic reproductions are acceptable but recognize that separating logs from the report can elevate risk.

### **Read These Provisions Closely**

Some clients, design professionals and contractors may not recognize that the geoscience practices (geotechnical engineering, geology and environmental science) are far less exact than other engineering and natural science disciplines. This lack of understanding can create unrealistic expectations that could lead to disappointments, claims and disputes. GeoEngineers includes these explanatory “limitations” provisions in our reports to help reduce such risks. Please confer with GeoEngineers if you are unclear how these “Report Limitations and Guidelines for Use” apply to your project or site.

### **Geotechnical, Geologic and Geoenvironmental Reports Should Not be Interchanged**

The equipment, techniques and personnel used to perform an environmental study differ significantly from those used to perform a geotechnical or geologic study and vice versa. For that reason, a geotechnical engineering or geologic report does not usually relate any environmental findings, conclusions or

recommendations; e.g., about the likelihood of encountering underground storage tanks or regulated contaminants. Similarly, environmental reports are not used to address geotechnical or geologic concerns regarding a specific project.

### **Biological Pollutants**

GeoEngineers' Scope of Work specifically excludes the investigation, detection, prevention or assessment of the presence of Biological Pollutants. Accordingly, this report does not include any interpretations, recommendations, findings, or conclusions regarding the detecting, assessing, preventing or abating of Biological Pollutants and no conclusions or inferences should be drawn regarding Biological Pollutants, as they may relate to this project. The term "Biological Pollutants" includes, but is not limited to, molds, fungi, spores, bacteria and viruses, and/or any of their byproducts.

If Ecology desires these specialized services, they should be obtained from a consultant who offers services in this specialized field.

