

May 3, 2022

Erika Malone City of Seattle, Office of Housing 700 5th Avenue, Suite 5700 Seattle, Washington 98104

RE: Preliminary Phase II Subsurface Investigation Kenyon Street Vacant Lot, Site 5 4203 South Kenyon Street and 7908 Martin Luther King Jr. Way South Seattle, Washington 98118 RGI Project No. 2021-552-11

Dear Ms. Malone:

The Riley Group, Inc. (RGI) is pleased to present our Preliminary Phase II Subsurface Investigation (Phase II) for the above-referenced Kenyon Street Vacant Lot, Site 5 located at 4203 South Kenyon Street and 7908 Martin Luther King Jr. Way South in Seattle, Washington (hereafter referred to as the Property, Figure 1). Authorization for this project was provided by Ms. Laurie Olson of the City of Seattle on March 2, 2022.

PROJECT BACKGROUND

RGI completed, on behalf of the City of Seattle, Office of Housing, a Phase I Environmental Site Assessment (ESA) on September 30, 2021 (RGI project number 2021-552-3). Based on our Phase I ESA findings, the following recognized environmental conditions (RECs) were identified:

- Former Oil Burners and Heating Oil USTs: Three heating oil underground storage tanks (USTs) and at least four oil burners are known to have been historically present on the Property. There is a potential that abandoned heating oil USTs are present at the Property associated with the four historical oil burners. No environmental sampling and testing of soils adjacent to the former USTs is known to have been performed. Therefore, the soil and shallow groundwater quality in the vicinity of the former USTs is unknown. The former heating oil USTs and potential of abandoned heating oil USTs on the Property was considered a REC.
- Auto Repairs on Property: A previous Phase I ESA provided to RGI by the Client indicated that auto repair activities were observed in the garage of the former southern duplex located at 7908 and 7910 Martin Luther King Jr. Way South on the Property. No environmental sampling and testing of soils beneath the former garage used for auto repair is known to have been performed. Therefore, the soil and shallow groundwater quality in the vicinity of the former garage are unknown. The former auto repair activities on the Property was considered a REC.

RGI recommended a Preliminary Phase II Subsurface Investigation in the vicinity of the former USTs and former garage to evaluate the potential impacts to soil and shallow groundwater quality for the above-referenced RECs. In addition, RGI recommended conducting a Geophysical Survey in an effort to locate any abandoned, decommissioned, or former heating oil UST locations at the Property.

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At the request of the City of Seattle, Office of Housing (hereafter referred to as the Client), RGI has prepared this Phase II report to evaluate the above summarized potential environmental concerns.

SCOPE OF WORK

The scope of work for this project was performed in accordance with our proposal, dated March 1, 2022 and included the following:

- Performed public and private utility locating in an attempt to identify the location(s) of buried utility lines servicing the building on the Property.
- Performed a geophysical survey of the Property in an attempt to locate any existing abandoned or decommissioned-in-place UST(s).
- Relied on information developed for the Phase I ESA of the Property as well as information developed during the geophysical survey in order to determine test pit location placement in relation to areas of potential contamination.
- Advanced seven test probes (TP1 through TP7) throughout the Property, to a maximum depth of 24 feet below ground surface (bgs).
- Submitted select soil and groundwater samples for laboratory analysis of potential contaminants of concern.
- Compared analytical results to the Washington State Department of Ecology (Ecology) Model Toxics Control Act (MTCA) Method A Soil Cleanup Levels (CULs) for Unrestricted Land Use and MTCA Method A CULs for Groundwater (WAC 173-340). In instances where no MTCA Method A CULs were published for particular analytes, MTCA Method B CULs were utilized.
- > Prepared this report presenting our findings, observations, conclusions, and recommendations.

SUBSURFACE INVESTIGATION AND SAMPLING

Private and Public Utility Locate

At least 48 hours prior to commencing our subsurface investigation, RGI contacted One-Call to locate known public underground utilities near, or on, the Property. Public underground utilities located included electric, natural gas, telecommunications, water, sewer, and cable.

RGI also retained a private utility locator to locate private water, natural gas, electric, and other metallic underground utility conduits potentially located in the proposed test probe locations.

Geophysical Survey

RGI supervised a contractor to perform the geophysical survey in an attempt to locate any existing abandoned or decommissioned-in-place UST(s), any remaining product or vent piping, or other underground metallic anomalies. The geophysical survey utilized electromagnetic (EM) and ground-penetrating radar (GPR) units to traverse the Property on approximately 5- to 10-foot-line spacing.

The geophysical survey uncovered near surface buried metal debris as well as potential historical utility piping however no anomalies suggestive of USTs or associated piping were identified.

Subsurface Investigation

On April 6, 2022, seven test probes (TP1 through TP7) were advanced to depths ranging from approximately 9 to 24 feet bgs depending on subsurface material density encountered. Test probes were



advanced using a Geoprobe 7730 hydraulic drill. Test probe locations are shown on Figures 2 and 3 and described below.

Test probe TP1 was placed at the approximate southern portion of the former southernmost residence which previously was located on the Property. Test probe TP2 was located in the south-central portion of the Property where a former AST had been previously located. TP3 was installed at the northern portion of the historical southern residence. TP4 and TP5 were placed at the approximate northwest and northeast portions of the former northern on-Property residence. Finally, TP6 and TP7 were installed to the southwest of TP1 in an effort to define the extent of odors observed in soils at TP1. TP6 and TP7 were also placed adjacent to each other as subsurface density at TP6 prevented exploration beyond 7.5 feet bgs.

Subsurface Conditions

Soil conditions encountered were described using the Unified Soil Classification System (USCS). Shallow soils encountered between the ground surface and between 10 to 15 feet in depth generally consisted of sands, sandy silt, and/or silty sands with occasional gravels. Materials below the silty sands generally consisted of brown/grey/black sands, sandy silt with density increasing with depth. Petroleum odors accompanied by were observed in materials at TP1 between 7.5 to approximately 22 feet bgs (with the strongest odors between 12 to 14 feet bgs) as well as at TP5 between 6 to 19 feet bgs (with strongest odors at approximately 10 feet bgs). While moist conditions were noted at several of the test probe locations, recoverable groundwater was only encountered at TP5. Test probe logs are included in Appendix A.

Soil Sampling

Discrete soil samples from test probes were generally collected at approximately 2.5 to 5-foot intervals, inspected, and field screened for the presence of volatile organic compounds (VOCs) and/or total petroleum hydrocarbons (TPH) using a portable gas photoionization detector (PID) and water sheen test. As noted above, petroleum odors accompanied by sheens/elevated PID readings were observed in materials at TP1 between 7.5 to approximately 22 feet bgs (with the strongest odors/readings between 12 to 14 feet bgs) as well as at TP5 between 6 to 19 feet bgs (with strongest odors at approximately 10 feet bgs). These odors correspond with the approximate garage level of the former residence where auto service work reportedly occurred. PID field screening results are given in Table 1.

Groundwater Grab Sampling

Groundwater grab samples were collected from test probe TP5. Groundwater was not encountered at the remaining test probe locations. The groundwater samples were collected through a 1-inch-diameter temporary well screen down the hole using a peristaltic pump and disposable plastic tubing under low-flow conditions. Groundwater was encountered at approximately 15 feet bgs at that location.

Shallow groundwater grab samples collected from the test probes may not be representative of groundwater conditions or quality. To obtain samples that are definitively representative of shallow groundwater, the installation, development, and sampling of shallow groundwater from permanent monitoring wells would need to be installed at the Property. The objective of this investigation was to determine if groundwater had been impacted by the potential contaminants of concern. Groundwater sampling satisfied these project objectives and provided useful information regarding subsurface conditions at the Property.



Sampling Protocols

All samples were collected in accordance with our standard operating and decontamination procedures. Samples were placed in preconditioned, sterilized containers provided by an Ecology-accredited analytical laboratory. If soil samples were collected for analysis of VOCs, they were collected using the Environmental Protection Agency's Method 5035 sampling method. The samples were placed in a chilled cooler throughout the field program, with all subsequent transportation and transfer accomplished in strict accordance with RGI's chain-of-custody procedures. Analytical test certificates, including quality control, data, and chain-of-custody documentation for all samples submitted to the analytical testing laboratory by RGI as part of this Phase II are included in Appendix B. All soil sample locations were backfilled with excavated material.

REGULATORY FRAMEWORK

Washington's hazardous waste cleanup law, the Model Toxics Control Act (Chapter 70.105D RCW), mandates the necessity for site cleanups to protect human health and the environment. The MTCA Cleanup Regulation (Chapter 173-340 WAC) defines the approach for establishing cleanup requirements for individual sites, including the establishment of cleanup standards and selection of cleanup actions.

The MTCA Cleanup Regulation provides three options for establishing generic and site-specific cleanup levels for soil and groundwater. Method A cleanup levels have been adopted for specific purposes and are intended to provide conservative cleanup levels for sites undergoing routine site characterization or cleanup actions or those sites with relatively few hazardous substances. Method B and C cleanup levels are set using a site risk assessment, which focus on the use of "reasonable maximum exposure" assumptions based on site-specific characteristics and toxicity of the contaminants of concern.

For purposes of comparison, analytical laboratory data for this project are compared to the *MTCA Method A Soil CULs for Unrestricted Land Uses* and *MTCA Methods A CULs for Groundwater* (except in instances where no MTCA Method A CULs were published for particular analytes, MTCA Method B CULs were utilized), summarized in the attached Tables 1 and 2.

ANALYTICAL LABORATORY ANALYSIS

Soil and groundwater grab samples were submitted to Friedman & Bruya, Inc. (FBI), an Ecology-accredited, third-party analytical laboratory for the requested analyses.

Select soil and groundwater grab samples were submitted for laboratory analysis. The samples were analyzed for one or more of the following contaminants of concern:

- Diesel- and oil-range TPH using Northwest Test Method NWTPH-Dx (11 soil samples and 1 groundwater sample).
- Gasoline-range TPH using Northwest Test Method NWTPH-Gx (11 soil samples and 1 groundwater sample).
- > VOCs using EPA Test Method 8260 (8 soil samples and 1 groundwater sample).
- Semi volatile organic compounds (SVOCs) by EPA Test Method 8270E (1 soil sample).
- > Total Lead using EPA Test Method 6020B (2 soil samples).

ANALYTICAL RESULTS

Analytical results and field screening data, summarized in the attached Tables 1 and 2 and Figures 2 and 3, are discussed below. Copies of the analytical laboratory reports and associated sample chain-of-custody forms are included in Appendix B.



Soil Analytical Results

Soil from TP1 at a depth of 14 feet bgs as well as soil sampled from TP5 at a depth of 10 feet bgs reported detections of gasoline TPH at concentrations of 940 mg/kg and 1,700 mg/kg, respectively. The TP1-14 sample also reported a concentration of diesel TPH at 5,700 mg/kg. Both of the gasoline TPH detections and the diesel TPH detection are above their applicable MTCA Method A Cleanup Levels for those analytes. Additional testing of soils from TP1 at depths of 7.5, 21.5, and 24 feet bgs did not report detections of gasoline or diesel TPH indicating that the detections at 14 feet bgs are vertically limited at that test probe location.

The samples which contained gasoline TPH from TP1 (at 14 feet bgs) and TP5 (at 10 feet bgs) were further analyzed for total lead. Lead was detected at concentrations of 2.43 mg/kg at TP1-14 and 3.32 mg/kg at TP5-10. Those concentrations are below (i.e. compliant with) their applicable MTCA Method A cleanup level.

Soils sampled from TP1-14 (at a depth of 14 feet bgs), and TP5-10 (at a depth of 10 feet bgs) were also found to contain various VOCs including n-propylbenzene, 1,2,4-trimethylbenzene, sec-butylbenzene, p-isopropyltoluene, 1,2,5-trimethylbenzene, or naphthalene however the reported concentrations were each below (i.e. compliant with) their applicable MTCA Method A (or B if no A is published) cleanup levels.

Additional testing of soil from sample TP1-14 for SVOCs revealed detections of 1-methylnaphthalene, 2methylnaphthalene, acenaphthene, fluorene, phenanthrene, fluoranthene, and pyrene below their applicable MTCA cleanup levels.

Analytical lab results for the remaining soil samples tested indicate concentrations for selected analyses were not detected above laboratory analytical detection limits (i.e., non-detect).

Groundwater Analytical Results

During this project, recoverable groundwater was only encountered within test probe TP5. Groundwater sampled from TP5 contained diesel TPH at 150x μ g/L, which is below the MTCA Method A cleanup level of 500 μ g/L for that analyte. The analytical chemist flagged "x" on the diesel and oil-range TPH detections. The flagged "x" by the laboratory chemist indicates that *"the sample chromatographic pattern does not resemble the fuel standard used for quantification*". In other words, the reported concentrations of diesel-range TPH in groundwater could be a highly degraded petroleum hydrocarbon and/or a naturally occurring biogenic material (such as peat or other organic material).

Various VOCs including xylenes, 1,3,5-trimethylbenzene, 1,2,4-trimethylbenzene, and naphthalene were also detected in groundwater sampled from TP5 however the reported detections were all below their applicable MTCA Method A (or Method B if no Method A is published) cleanup levels.

CONCLUSIONS & RECOMMENDATIONS

Based on our findings to-date, RGI concludes and/or recommends the following:

- Soil contamination by gasoline and/or diesel TPH above MTCA Method A CULs was encountered in test probes TP1 and TP5. Based on the results of soil testing at other localities and depths, the petroleum contamination at TP1 appears to be somewhat vertically limited to depths between 7.5 to 21.5 feet bgs and horizontally limited between TP7, TP2, and TP3. Soil contamination at TP5 appears vertically limited to depths above 17.5 feet bgs. Additional drilling would be required if further delineation is desired by the Client.
- ➢ While no evidence of heating oil USTs was discovered during RGI's geophysical survey, acknowledging the history of heating oil UST use, if a heating oil UST is discovered during the



course of future construction/Property redevelopment, if during the course of future site development/construction activities, an underground heating oil tank is encountered, RGI recommends it be properly decommissioned and removed in accordance with the applicable city, county, and/or state requirements and with the Ecology *Guidance for Site Checks and Site Assessment for Underground Storage Tanks*. As a component of such decommissioning activity, it would be RGI's further recommendation that soil and/or groundwater samples be obtained by a licensed professional from appropriate localities within such a tank excavation and submitted for laboratory analysis in an effort to ascertain whether or not subsurface environmental conditions at the time of removal are consistent with Ecology cleanup standards in effect at that time.

Based on the discovery of contamination during this Phase II, RGI recommends that the owner of the Property notify Ecology of the discovered contamination as promulgated under WAC 173-340-300. Under WAC 173-340-300, the owner or operator of the Site shall report such information regarding this encountered contamination to Ecology within 90 days of discovery. On written request, RGI can contact, or submit a copy of this report to Ecology on behalf of the owner.

PROJECT LIMITATIONS

This report is the property of the City of Seattle, Office of Housing, and their authorized representatives or affiliates and was prepared in a manner consistent with the level of skill and care ordinarily exercised by members of the profession currently practicing in the same locality and under similar conditions. This report is intended for specific application to the Kenyon Street Vacant Lot, Site 5 Property located at 4203 South Kenyon Street and 7908 Martin Luther King Jr. Way South, Seattle, King County, Washington. No warranty or guarantee, expressed or implied, is made.

The analyses and recommendations presented in this report are based upon data obtained from our review of available information at the time of preparing this report, test borings drilled on the Property, or other noted data sources. The findings and conclusions of this study are based upon the results of laboratory testing of selected samples obtained from separated boring/probe locations and conditions may vary between those localities or at other locations, depths, media, or date. Conditional changes may occur through time by natural or human-made process on this or adjacent properties. Additional changes may occur in legislative standards, which may or may not be applicable to this report. These changes, beyond RGI's control, may render this report invalid, partially or wholly. If variations appear evident, RGI should be requested to reevaluate the recommendations in this report.



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Please contact the undersigned at (425) 415-0551 should you have any questions or need additional information.

Sincerely, **THE RILEY GROUP, INC.**

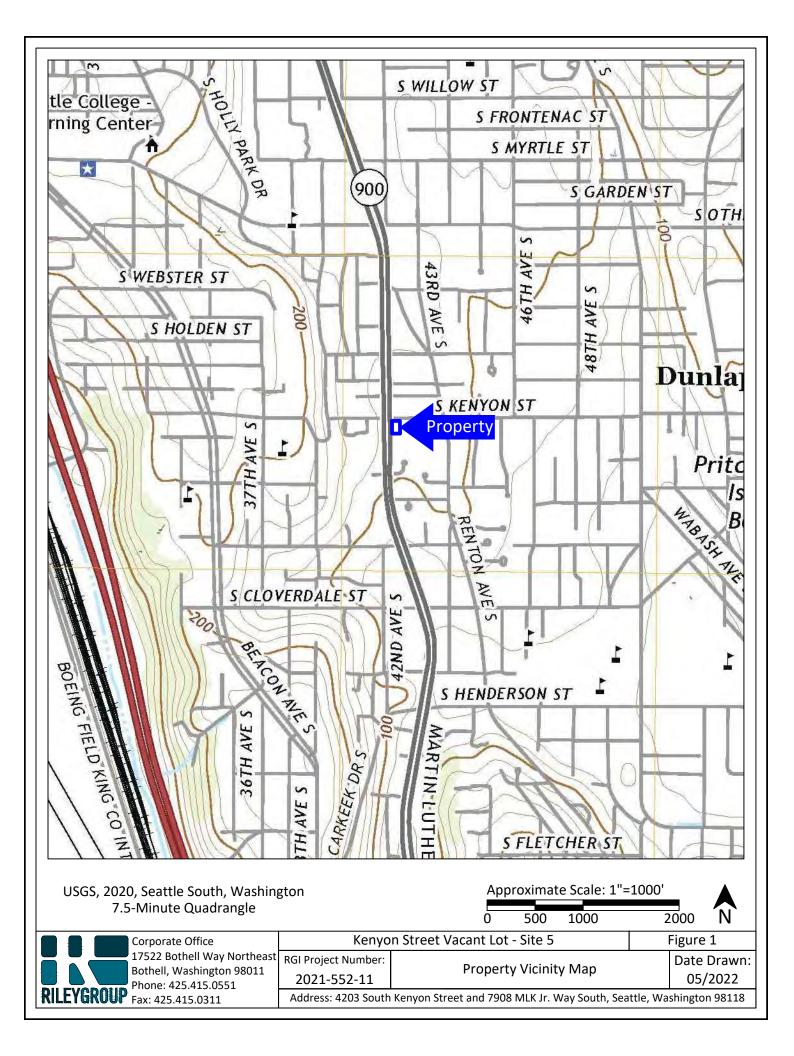
Eric Zuern Project Geologist

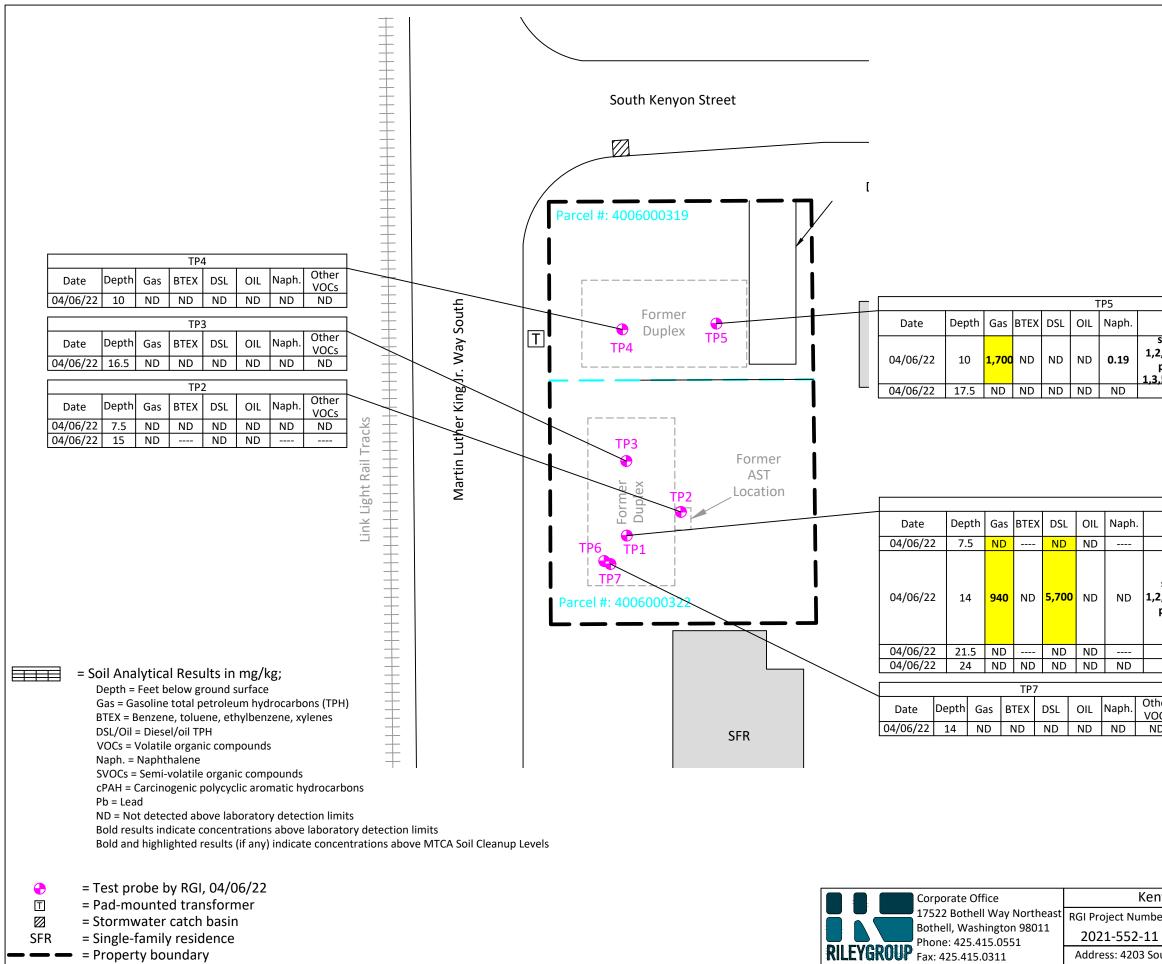
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Megan Poysnick, LG Senior Environmental Manager

Attachments:Figure 1, Property Vicinity Map
Figure 2, Property Representation with Soil Analytical Data
Figure 3, Property Representation with Groundwater Analytical DataTable 1, Summary of Soil Sample Analytical Laboratory Results
Table 2, Summary of Groundwater Grab Sample Analytical Laboratory ResultsAppendix A, Test Probe Logs
Appendix B, Analytical Laboratory Reports and Chains of CustodyDistribution:Ms. Erika Malone, City of Seattle Office of Housing (PDF)



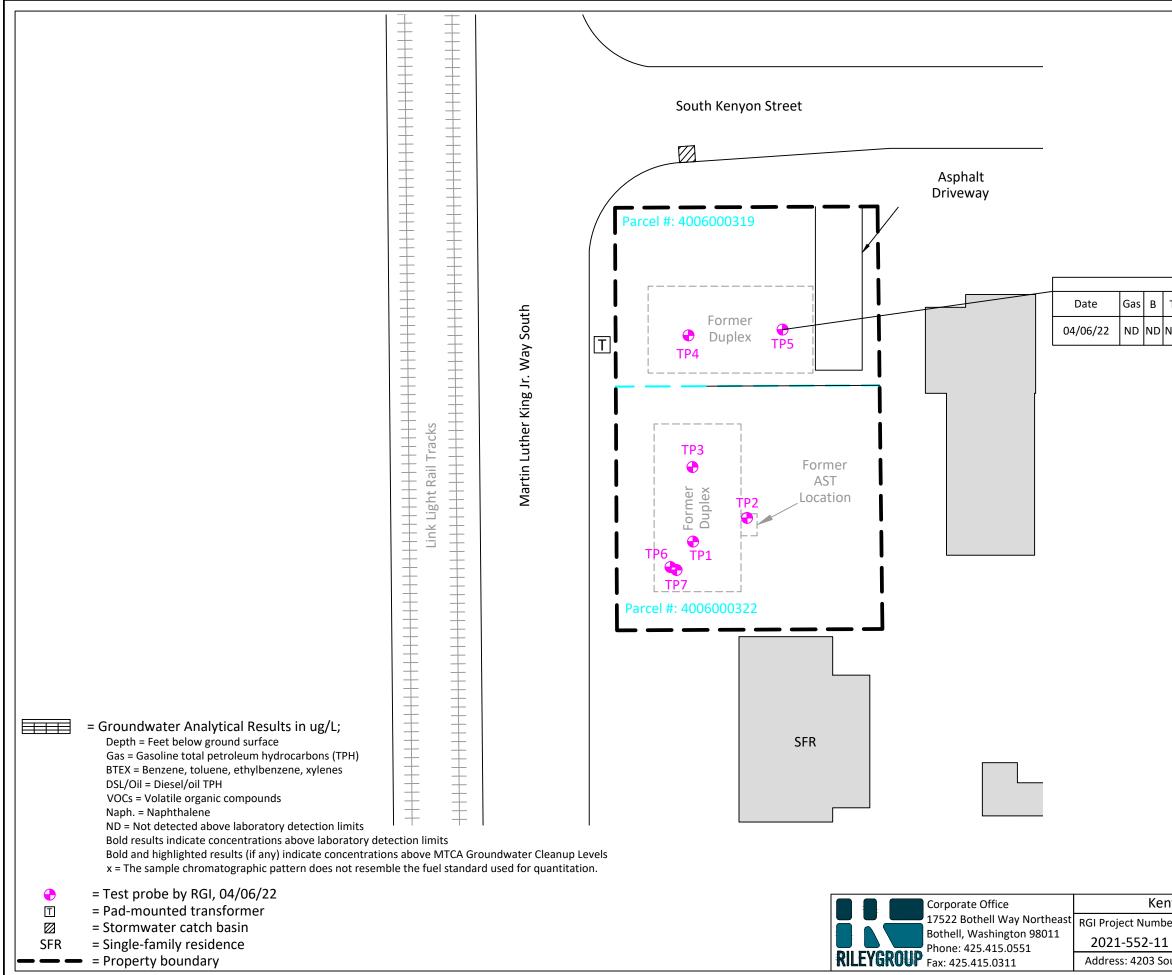




Other VOCs	Pb	
sec-Butylbenzene = 0.066 ,2,4 - Trimethylbenzene = 6.5 p-Isopropyltouene = 0.33 3,5 - Trimethylbenzene = 0.11	3.32	
ŇD		

TD1

	TP1					
	Other VOCs	cPAH	Other	SVOCs		Pb
,2,4 p-ls	c-Butylbenzene = 0.083 - Trimethylbenzene = 0.37 sopropyltouene = 0.052 -Propylbenzene = 0.12	ND	Phenanth Fluoranth	thalene nene = 0. ne = 1.3 rene = 2	= 0.34 .51 .4	2.43
	ND					
	Appro	oxima	ate Scale: 1"=	30'		
	0	15	30		60	N
nyo	0 on Street Vacant Lot -				60 Figure 2	N
, ber: 1	Property Representa	Site 5 tion Data	5 with Soil Ana	F lytical	igure 2 Date D 05/2)rawn 2022
, ber: 1	Property Representa	Site 5 tion Data	5 with Soil Ana	F lytical	igure 2 Date D 05/2)rawn 2022



				TP5		
т	E	х	DSL	OIL	Naph.	Other VOCs
NC	ND	3.5	150 x	ND	3.2	1,3,5 - Trimethylbenzene = 1.6 1,2,4 - Trimethylbenzene = 6.5

	Approximate S	cale: 1"=	30'	_	
	0 15 3	30		60	N
nyo	n Street Vacant Lot - Site 5			Figure	3
er:	Property Representation with	Ground	water	Date [Drawn:
L	Analytical Data			05/2	2022
outh	Kenyon Street and 7908 MLK Jr. Way	South, Sea	ttle, Wa	shington	98118

Table 1. Summary of Soil Sample Analytical Laboratory Results Kenyon Street Vacant Lot - Site 5 4203 South Kenyon Street and 7908 MLK Jr. Way South, Seattle, Washington 98118 The Riley Group, Inc. Project No. 2021-552-11 BTEX Gasolin Diese cis-1,2 Sample Sampl Sample rans-1, 1.1-DCE cPAH PID Oil TPH PCE TCE vc Other VOCs Other SVOCS Naph. Pb TPH DCE DCE TPH Number Depth Date в т Ε х 04/06/22 0.0 TP1-2.5 2.5 --------------------------------04/06/22 TP1-5 5 0.0 -----------------ND<5 TP1-7.5 7.5 04/06/22 0.0 ----ND<50 ND<250 --TP1-10 10 04/06/22 2.0 --TP1-12.5 12.5 04/06/22 20.4 --2-Methylnaphthalene = 0.098 1-Methylnaphthalene = 0.34 sec-Butylbenzene = 0.66 Acenaphthene = 0.51 1,2,4 - Trimethylbenzene = 6.5 ND<0.03 ND<0.05 ND<0.05 ND<0.15 5,700 ND<250 ND<0.02 ND<0.05 N 04/06/22 ND<0.0.1 ND<0.05 TP1-14 14 40.5 940 Fluorene = 1.3 2.43 n-Propylbenzene = 0.12 Phenanthrene = 2.4 p-Isopropyltouene = 0.33 Fluoranthen = 0.039 Pyrene = 0.10 TP1-17 17 04/06/22 0.5 --TP1-18/19 18/19 04/06/22 0.4 --TP1-21.5 21.5 04/06/22 0.4 ND<5 ----------------ND<50 ND<250 --------------------------------------ND<0.15 ND<50 ND<0.025 ND<0.0 ND<0.05 TP1-24 24 04/06/22 0.2 ND<5 ND<0.03 ND<0.05 ND<0.05 ND<250 ND<0.02 ND<0.05 ND<0.05 ND<0.05 ND ---TP2-5 5 04/06/22 0.0 --------TP2-7.5 7.5 04/06/22 0.1 ND<5 ND<0.03 ND<0.05 ND<0.05 ND<0.15 ND<50 ND<250 ND<0.025 ND<0.02 ND<0.05 ND<0.05 ND<0.05 ND<0.05 ND ND<0.05 TP2-10 10 04/06/22 0.0 ---TP2-12.5 12.5 04/06/22 0.0 --TP2-15 15 04/06/22 0.0 ND<5 -------ND<50 ND<250 ---TP3-5 5 04/06/22 0.1 --7.5 04/06/22 0.0 --------------------------------TP3-7.5 ------------------------------TP3-10 10 04/06/22 0.2 ------------------TP3-12.5 12.5 04/06/22 0.1 ---TP3-14 14 04/06/22 0.0 --TP3-16.5 16.5 04/06/22 0.3 ND<5 ND<0.03 ND<0.05 ND<0.05 ND<0.15 ND<50 ND<250 ND<0.025 ND<0.0 ND<0.0 ND<0.05 ND<0.05 ND<0.0 ND ----ND<0.05 ----TP3-18 18 04/06/22 0.4 ------------------------------------TP4-5 5 04/06/22 0.1 ---------------------04/06/22 0.2 TP4-7.5 7.5 TP4-10 10 04/06/22 0.3 ND<5 ND<0.03 ND<0.05 ND<0.05 ND<0.15 ND<50 ND<250 ND<0.025 ND<0.02 ND<0.05 ND<0.05 ND<0.05 ND<0.05 ND<0.05 ND --------TP4-12.5 12.5 04/06/22 0.3 ---TP4-15 15 04/06/22 0.0 ---2.5 0.5 ----------------------------TP5-2.5 04/06/22 ----------------TP5-5 5 04/06/22 1.4 ---------------------------------------TP5-7.5 7.5 04/06/22 2.1 ------------------------------------sec-Butylbenzene = 0.083 1,2,4 - Trimethylbenzene = 0.37 TP5-10 04/06/22 ND<0.03 ND<0.05 ND<0.05 ND<0.15 ND<50 ND<250 ND<0.025 ND<0.02 ND<0.05 ND<0.05 ND<0.05 ND<0.05 10 192.4 1,700 0.19 3.32 --------1,3,5 - Trimethylbenzene = 0.11 p-Isopropyltouene = 0.052 04/06/22 TP5-12.5 12.5 20.3 ---TP5-15 15 04/06/22 5.7 --TP5-17.5 17.5 04/06/22 0.9 ND<5 ND<0.03 ND<0.05 ND<0.05 ND<0.15 ND<50 ND<250 ND<0.025 ND<0.0 ND<0.0 ND<0.05 ND<0.05 ND<0.0 ND ----ND<0.05 --------TP5-19 19 04/06/22 0.9 --TP6-2.5 2.5 04/06/22 0.4 ---MTCA Method A Soil Cleanup Levels for 0.03 2,000 0.05 0.03 **Analyte Specific** TEF = 0.1 Analyte Specific 5 250 100/301 7 6 9 ----------------Unrestricted Land Uses 2-Methylnaphthalene = 320 1-Methylnaphthalene = 5,600 sec-Butylbenzene = 8000 n-Propylbenzene = 8000 Acenaphthene = 4,800 MTCA Method B Soil Cleanup Levels ----160 1,600 0.67³ 4,000 1,2,4 - Trimethylbenzene = 800 Fluorene = 3,200 --------------------------------------for Unrestricted Land Uses³ 1,3,5 - Trimethylbenzene = 800 Phenanthrene = Not Published ⁵ p-Isopropyltouene = Not Published Fluoranthene = 3.200

Pyrene = 2,400

cPAHs (carcinogenic polycyclic aromatic hydrocarbons) and Other SVOCs (semi-volatile organic compounds) determined using EPA Test Method 8270E.

Kenyon Street Vacant Lot - Site 5

4203 South Kenyon Street and 7908 MLK Jr. Way South, Seattle, Washington 98118

The Riley Group, Inc. Project No. 2021-552-11

		Project N	0. 2022	1																	
Sample	Sample	Sample	PID	Gasoline		BT	EX		Diesel	OII TPH	PCE	TCE		trans-1,2-	vc	1,1-DCE	Other VOCs	сРАН	Other SVOCs	Naph.	Pb
Number	Depth	Date		TPH	В	Т	E	х	TPH	•			DCE	DCE		-)- 002		0.7.11		p	
TP6-5	5	04/06/22	0.6						-												
TP6-7.5	7.5	04/06/22	0.0						-				-								
TP7-10	10	04/06/22	0.1																		
TP7-12.5	12.5	04/06/22	0.0																		
TP7-14	14	04/06/22	0.3	ND<5	ND<0.03	ND<0.05	ND<0.05	ND<0.15	ND<50	ND<250	ND<0.025	ND<0.02	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND			ND<0.05	
		l Cleanup Le I Land Uses		100/30 ¹	0.03	7	6	9	2,0	000	0.05	0.03	1	-		1	Analyte Specific	TEF = 0.1	Analyte Specific	5	250
		oil Cleanup I ed Land Use:				-	1	-					160	1,600	0.674	4,000	sec-Butylbenzene = 8000 n-Propylbenzene = 8000 1,2,4 - Trimethylbenzene = 800 1,3,5 - Trimethylbenzene = 800 p-Isopropyltouene = Not Published 5		2-Methylnaphthalene = 320 1-Methylnaphthalene = 5,600 Acenaphthene = 4,800 Fluorene = 3,200 Phenanthrene = Not Published ⁵ Fluoranthene = 3,200 Pyrene = 2,400		

Notes:

All results and detection limits are given in milligrams per kilogram (mg/kg); equivalent to parts per million (ppm).

Sample Depth = Soil sample depth interval in feet below ground surface (bgs).

PID = Photoionization detector.

Gasoline TPH (total petroleum hydrocarbons) determined using Northwest Test Method NWTPH-Gx.

BTEX (benzene, toluene, ethylbenzene, and xylenes) determined using EPA Test Method 8021B or 8260D Dual Acquisition.

Diesel and Oil TPH (total petroleum hydrocarbons) determined using Northwest Test Method NWTPH-Dx.

PCE (tetrachloroethene), TCE (trichloroethene), cis-1,2-DCE (cis-1,2-dichloroethene), trans-1,2-DCE (trans-1,2-dichloroethene), VC (vinyl chloride), 1,1-DCE (1,1-dichloroethene), and other VOCs (volatile organic compounds) determined using EPA Test Method 8260D Dual Acquisition.

Total Metals (Pb = lead) determined using EPA Method 6020B.

Naph. (naphthalene) determined using EPA Test Method 8260D Dual Acquisition.

ND = Not detected at a concentration above the analytical detection limit.

---- = Not analyzed or not applicable.

Washington State Department of Ecology (Ecology) Model Toxics Control Act (MTCA) Method A Soil Cleanup Levels for Unrestricted Land Uses (WAC 173-340-900, Table 740-1). MTCA Method B Soil Screening Levels from Ecology's Cleanup Level and Risk Calculation (CLARC) database. cPAHs (carcinogenic polycyclic aromatic hydrocarbons) and Other SVOCs (semi-volatile organic compounds) determined using EPA Test Method 8270E.

TEF = Toxicity Equivalency Factor per WAC 173-340-708(8).

¹ The higher cleanup level is allowed if no benzene is present in the gasoline mixture and the total concentration of toluene, ethylbenzene and xylenes is less than 1% of the gasoline mixture.

² The higher cleanup level is allowed if no hexavalent chromium (CrVI) is present in the sample.

³ No MTCA Method A Cleanup Level has been established. Therefore, the MTCA Method B Non-Carcinogenic Standard Formula Value is listed for reference.

⁴ No MTCA Method A Cleanup Level has been established. Therefore, the MTCA Method B Carcinogenic Standard Formula Value is listed for reference.

⁵ No Clean Up level has been published from Ecology's Cleanup Level and Risk Calculation (CLARC) database.

Bold results indicate concentrations (if any) above laboratory detection limits.

Bold and yellow highlighted results indicate concentrations (if any) that exceed MTCA Method A or B Soil Cleanup Levels.

Table 2. Summary of Groundwater Grab Sample Analytical Laboratory Results

Kenyon Street Vacant Lot - Site 5

4203 South Kenyon Street and 7908 MLK Jr. Way South, Seattle, Washington 98118

The Riley Group, Inc. Project No. 2021-552-11

Sample	Sample	Gasoline		BT	EX		Diesel				cis-1,2-	trans-1,2-				
Number	Date	ТРН	В	т	E	х	трн	Oil TPH	PCE	TCE	DCE	DCE	VC	1,1-DCE	Other VOCs	Naph.
TP5	04/06/22	ND<100	ND<0.35	ND<1	ND<1	3.5	150 x	ND<250	ND<1	ND<0.5	ND<1	ND<1	ND<0.02		1,3,5 - Trimethylbenzene = 1.6 1,2,4 - Trimethylbenzene = 6.5	
MTCA Method A Cleanup Levels for Ground Water		800/1,000 ¹	5	1,000	700	1,000	500	500	5	5			0.2		Analyte Specific	5
MTCA Method B Cleanup Levels for Ground Water ²											16	160		400	1,3,5 - Trimethylbenzene = 80 1,2,4 - Trimethylbenzene = 80	

Notes:

Samples collected by RGI field staff using a peristaltic pump under low-flow conditions.

Unless otherwise noted, all analytical results are given in micrograms per liter (ug/L), equivalent to parts per billion (ppb).

Gasoline TPH (total petroleum hydrocarbons) determined using Northwest Test Method NWTPH-Gx.

BTEX (benzene, toluene, ethylbenzene, and xylenes) determined using EPA Test Method 8021B or 8260D Dual Acquisition.

Diesel and Oil TPH (total petroleum hydrocarbons) determined using Northwest Test Method NWTPH-Dx.

PCE (tetrachloroethene), TCE (trichloroethene), cis-1,2-DCE (cis-1,2-dichloreothene), trans-1,2-DCE (trans-1,2-dichloroethene), VC (vinyl chloride), 1,1-DCE (1,1-dichloroethene), and other VOCs (volatile organic compounds) determined using EPA Method 8260D Dual Acquisition.

VOCs (volatile organic compounds) determined using EPA Test Method 8260D Dual Acquisition.

ND = Not detected at a concentration above the analytical detection limit.

---- = Not analyzed or not applicable.

x = The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Washington State Department of Ecology (Ecology) Model Toxics Control Act (MTCA) Method A Cleanup Levels for Ground Water (WAC 173-340-900, Table 720-1). MTCA Method B Standard Formula Values for Ground Water from Ecology's Cleanup Level and Risk Calculation (CLARC) database.

¹ The higher cleanup level is applicable if no benzene is detected in groundwater.

² No MTCA Method A Cleanup Level has been established. Therefore, the MTCA Method B Non-Carcinogenic Standard Formula Value is listed for reference.

Bold results indicate concentrations (if any) above laboratory detection limits.

Bold and yellow highlighted results indicate concentrations (if any) that exceed MTCA Method A or B Cleanup Levels for Ground Water.



Date(s) Drilled: 04/06/22	Logged By: JD/SK	Surface Conditions: Grass		
Drilling Method(s): Direct Push	Drill Bit Size/Type: 2.25"	Total Depth of Borehole: 24 feet bgs		
Drill Rig Type: Geoprobe 7730 DT	Drilling Contractor: RGI	Approximate Surface Elevation: n/a		
Groundwater Level: Not Encountered	Sampling Method(s): Continuous	Hammer Data : n/a		
Borehole Backfill: Bentonite	Location: 4203 South Kenyon Street and 7908 MLK Jr. Way South, Seattle, Washington 98118			

				98118		_
PID Reading, ppb Sample ID	Sample Type Recovery (percent)	GW Depth	Depth (feet)	MATERIAL DESCRIPTION		Graphic Log
	0) LL		0	Grass		$\frac{1}{2}$
0.0 TP1-2.5	L _{50%}			Brown, sandy SILT with trace gravel, firm, moist, no odor, no sheen		
0.0 TP1-5			-	Brown with trace oxidation, sandy SILT with trace gravel, firm, moist, no odor		┝╫╫┦
0.0 TP1-7.5	L 100%				-	
2.0 TP1-10			+	Red, silty SAND, medium dense, moist, petroleum odor, sheen observed Gray, silty fine SAND, dense		
20.4 TP1-12	90%			Gray, sandy SILT with gravel, dense, petroleum odor		
40.5 TP1-14	Γ		15	Black, SAND, medium dense, petroleum odor, no sheen		
0.5 TP1-17 0.4 TP1-18	90% L		+			
0.2 TP1-21.5			20	Petroleum odor, no sheen		
0.2 TP1-24	⊥ _{95%}			Black, SAND, medium dense, petroleum odor, no sheen Dense, no odor, no sheen		
0.2 191-24			+	Test probe terminated at 24 feet bgs	4 b1	واللك
			25	-		
l						



Date(s) Drilled: 04/06/22 Logged By: JD/SK Surface Conditions: Grass Total Depth of Borehole: 15 feet bgs Drilling Method(s): Direct Push Drill Bit Size/Type: 2.25" Approximate Surface Elevation: **n/a** Drill Rig Type: Geoprobe 7730 DT Drilling Contractor: RGI Groundwater Level: Not Encountered Sampling Method(s): Continuous Hammer Data : n/a Location: **98118** 4203 South Kenyon Street and 7908 MLK Jr. Way South, Seattle, Washington Borehole Backfill: Bentonite

-						98118	
PID Reading, ppb	Sample ID	Sample Type	Recovery (percent)	GW Depth	o Depth (feet) I	MATERIAL DESCRIPTION	Graphic Log
			30%		-	Grass - Silty SAND with gravel, dense, no odor, no sheen - SAND with gravel, dense, no odor, no sheen -	
0.0	TP2-5		100%		5 —	Gray silty SAND with oxidation, very firm, no odor, no sheen Brown, silty SAND, very firm, no odor, no sheen	
0.0	TP2-10 TP2-12.5		100%		10 — - -	Brown SAND, dense, no odor, no sheen Gray, SAND, dense, no odor, no sheen	
0.0	TP2-15				- 15 — -	Test probe terminated at 15 feet bgs	
					- 20	- - 	
					- - 25	-	-



Date(s) Drilled: 04/06/22	Logged By: JD/SK	Surface Conditions: Grass			
Drilling Method(s): Direct Push	Drill Bit Size/Type: 2.25"	Total Depth of Borehole: 18 feet bgs			
Drill Rig Type: Geoprobe 7730 DT	Drilling Contractor: RGI	Approximate Surface Elevation: n/a			
Groundwater Level: Not Encountered	Sampling Method(s): Continuous	Hammer Data : n/a			
Borehole Backfill: Bentonite	4203 South Kenyon Street and 7908 MLK Jr. Way South, Seattle, Washington 98118				

						90110	
PID Reading, ppb	Sample ID	Sample Type	Recovery (percent)	GW Depth	o Depth (feet) I	MATERIAL DESCRIPTION	Graphic Log
			50%		-	Grass Gray, silty SAND with some gravel, very dense, moist, no odor, no sheen	
0.1	TP3-5 TP3-7.5		100%		5	Brownish gray, silty SAND, medium dense, moist, no odor, no sheen Brownish gray, silty SAND, dense, moist, no odor, no sheen	
0.2	TP3-10 TP3-12.5		90%			- - -	
0.0	TP3-14 TP3-16.5		00%		- 15	- Black, SAND, medium dense, moist, no odor, no sheen -	
0.4	TP3-18		90%			Test Probe terminated at 18 feet bgs - -	
					- - - 25	-	-
					23		



Date(s) Drilled: 04/06/22	Logged By: JD/SK	Surface Conditions: Grass			
Drilling Method(s): Direct Push	Drill Bit Size/Type: 2.25"	Total Depth of Borehole: 15 feet bgs			
Drill Rig Type: Geoprobe 7730 DT	Drilling Contractor: RGI	Approximate Surface Elevation: n/a			
Groundwater Level: Not Encountered	Sampling Method(s): Continuous	Hammer Data: n/a			
Borehole Backfill: Bentonite	4203 South Kenyon Street and 7908 MLK Jr. Way South, Seattle, Washington 98118				

PID Reading, ppb	Sample ID	Sample Type	Recovery (percent)	GW Depth	o Depth (feet)	MATERIAL DESCRIPTION	Graphic Log
			0%		-	Grass Gray, sandy SILT, firm, moist, no odor, no sheen *Not enough for Geotech sample	-
0.1	TP4-4.5 TP4-7.5				5		-
0.3	TP4-10		85%		- 10	Brown with oxidation, silty SAND, moist, dense, no odor, no sheen	
0.3	TP4-12.5		80%		-	Black sand, moist, dense no odor, no sheen	
0.0	TP4-15				15 	Test probe terminated at 15 feet bgs	- -
					- 20	- 	-
					-	- - -	-
					25		



Date(s) Drilled: 04/06/22	Logged By: JD/SK	Surface Conditions: Grass	
Drilling Method(s): Direct Push	Drill Bit Size/Type: 2.25"	Total Depth of Borehole: 19 feet bgs	
Drill Rig Type: Geoprobe 7730 DT	Drilling Contractor: RGI	Approximate Surface Elevation: n/a	
Groundwater Level: 15'	Sampling Method(s): Continuous	Hammer Data : n/a	
Borehole Backfill: Bentonite	Location: 4203 South Kenyon Street and 7908 MLK Jr. Way South, Seattle, Washington 98118		

PID Reading, ppb	Sample ID	Sample Type	Recovery (percent)	GW Depth	Depth (feet)		Graphic Log
DID	Sam	Sam	Reco	GWI		MATERIAL DESCRIPTION	Grap
0.5	TP2-2.5		70%		0	Grass - Gray, sandy GRAVEL, dense, no odor, no sheen -	
1.4	TP5-5				- 5 —	Brown, silty SAND with gravel, very dense, no odor, no sheen	
2.1	TP5-7.5		100%		-	- Petroleum odor, no sheen - Gray with oxidation, silty SAND, petroleum odor, sheen	
192.4	TP5-10				- 10—		
20.3	TP6-12.5		100%		-	-	
5.7	TP5-15			. <u> </u>	- 15 — -	Black, SAND, moist, petroleum odor, sheen	
0.9	175		30%		-	-	
0.9	TP5-19				_ 20 —	Test probe terminated at 19 feet bgs	4 [0]34[14
					-	-	
	I			I	25 —		

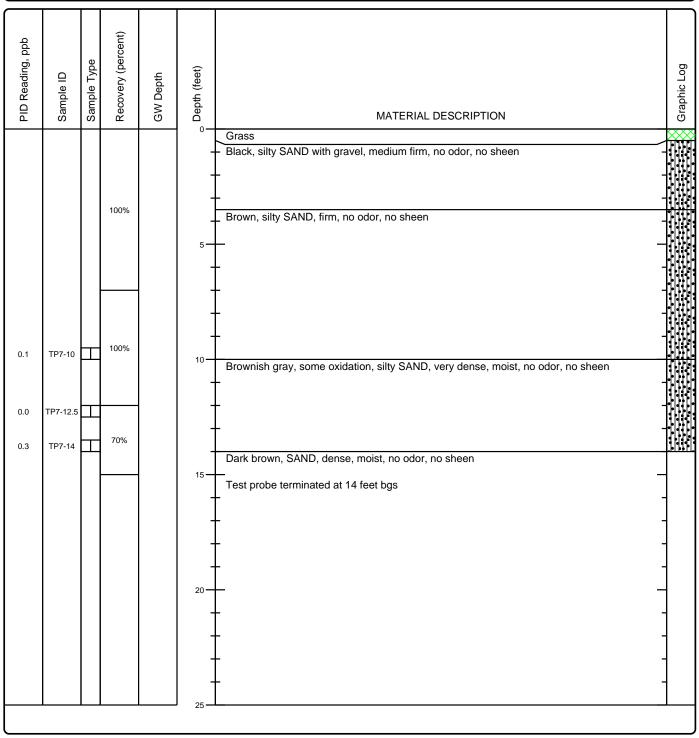


Date(s) Drilled: 04/06/22	Logged By: JD/SK	Surface Conditions: Grass	
Drilling Method(s): Direct Push	Drill Bit Size/Type: 2.25"	Total Depth of Borehole: 9 feet bgs	
Drill Rig Type: Geoprobe 7730 DT	Drilling Contractor: RGI	Approximate Surface Elevation: n/a	
Groundwater Level: Not Encountered	Sampling Method(s): Continuous	Hammer Data : n/a	
Borehole Backfill: Bentonite	4203 South Kenyon Street and 7908 MLK Jr. Way South, Seattle, Washington 98118		

PID Reading, ppb	DIe	Sample Type	Recovery (percent)	epth	Depth (feet)		Graphic Log
DRe	Sample ID	mple	SCOVE	GW Depth	epth		aphi
	Sa	Sa	Re	Ó	ے م	MATERIAL DESCRIPTION	ى ت
						Grass - Black, silty SAND with gravel, medium firm, moist, no odor, no sheen	
0.4	TP6-2.5					-	
			100%			Brown, silty SAND, medium firm, moist, no odor, no sheen	
					-	-	
0.6	TP6-5				5 —	-	
				-	-		
0.0	TP6-7.5				-	- Brown, oxidation, silty SAND, medium firm, no odor, no sheen	
			40%		-		-101
					10	Test probe terminated at 9 feet bgs	_
						-	1
							-
						-	-
					15 —	-	_
					-	-	-
					-		-
					-		_
					_		_
					20 —	_	_
					20		
						-	1
						-	1
						-	-
					-	-	-
					25		



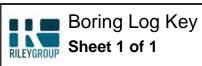
Date(s) Drilled: 04/06/22	Logged By: JD/SK	Surface Conditions: Grass	
Drilling Method(s): Direct Push	Drill Bit Size/Type: 2.25"	Total Depth of Borehole: 14 feet bgs	
Drill Rig Type: Geoprobe 7730 DT	Drilling Contractor: RGI	Approximate Surface Elevation: n/a	
Groundwater Level: Not Encountered	Sampling Method(s): Continuous	Hammer Data : n/a	
Borehole Backfill: Bentonite	4203 South Kenyon Street and 7908 MLK Jr. Way South, Seattle, Washington 98118		



Project Name: Kenyon Street Vacant Lot - Site 5

Project Number: 2021-552-11

Client: City of Seattle, Office of Housing



PID Reading, ppb	Sample ID	Sample Type	Recovery (percent)	GW Depth	Depth (feet)			MATERIAL DES	CRIPTION	Graphic Log
1 <u>COLU</u>	2 IMN DE	3 SCR	4 IPTION	5 <u>5</u>	6			[7]		8
pa 2 Sa 3 Sa sh	 parts per million. Sample ID: Sample identification number. Sample Type: Type of soil sample collected at the depth interval shown. 									
FIELD	AND L	ABC	RATOF	RY TEST	ABBR	EVIATIONS				
COMF CONS	P: Comp	actic imer	on test Isional c	assess c consolida				UC: Unconfined comp	ercent ercent passing No. 200 Sieve) oressive strength test, Qu, in ksf cent passing No. 200 Sieve)	
MATE	RIAL G	RAP	HIC SY	MBOLS						
Grass and/or topsoil SILT, SILT w/SAND, SANDY SILT (ML) SILT, SILT w/SAND, SANDY SILT (ML) SILT, SILT w/SAND, SANDY SILT (ML)										
TYPIC	AL SA	NPL	ER GRA	APHIC S	YMBOL	<u>s</u>			OTHER GRAPHIC SYMBOLS	
Bul	ger sam lk Samp nch-OD lss rings IE Samp	le Calif	ornia w/	, <u> </u>		mple -OD Modified a w/ brass liners		2-inch-OD unlined split spoon (SPT) Shelby Tube (Thin-walled, fixed head)	 ✓ Water level (at time of drilling, ATD) ✓ Water level (after waiting) Minor change in material properties within a stratum – Inferred/gradational contact between strata –? – Queried contact between strata 	

GENERAL NOTES

1: Soil classifications are based on the Unified Soil Classification System. Descriptions and stratum lines are interpretive, and actual lithologic changes may be gradual. Field descriptions may have been modified to reflect results of lab tests.

2: Descriptions on these logs apply only at the specific boring locations and at the time the borings were advanced. They are not warranted to be representative of subsurface conditions at other locations or times.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Vineta Mills, M.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

April 28, 2022

Eric Zuern, Project Manager The Riley Group, Inc. 17522 Bothell Way NE Bothell, WA 98011

Dear Mr Zuern:

Included are the additional results from the testing of material submitted on April 7, 2022 from the Site 5 Kenyon Street Vacant Lot 2021-552-11, F&BI 204093 project. There are 14 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

ale

Michael Erdahl Project Manager

Enclosures TRG0428R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on April 7, 2022 by Friedman & Bruya, Inc. from the The Riley Group Site 5 Kenyon Street Vacant Lot 2021-552-11, F&BI 204093 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	The Riley Group
204093 -01	TP1-2.5
204093 -02	TP1-5
204093 -02	TP1-7.5
	TP1-10
204093 -04	
204093 -05	TP1-12.5
204093 -06	TP1-14
204093 -07	TP1-17
204093 -08	TP1-18/19
204093 -09	TP1-21.5
204093 -10	TP1-24
204093 -11	TP2-5
204093 -12	TP2-7.5
204093 -13	TP2-10
204093 -14	TP2-12.5
204093 -15	TP2-15
204093 -16	TP3-5
204093 -17	TP3-7.5
204093 -18	TP3-10
204093 -19	TP3-12.5
204093 -20	TP3-14
204093 -21	TP3-16.5
204093 -22	TP3-18
204093 -23	TP4-5
204093 -24	TP4-7.5
204093 -25	TP4-10
204093 -26	TP4-12.5
204093 -27	TP4-15
204093 -28	TP5-2.5
204093 - 29	TP5-5
204093 -30	TP5-7.5
204093 -31	TP5-10
204093 -32	TP5-12.5
204093 -33	TP5-15
204093 -34	TP5-17.5
204093 -35	TP5-19
204093 -36	TP6-2.5
204093 - 37	TP6-5
204093 -38	TP6-7.5
204093 -39	TP7-10
204093 -40	TP7-14
204093 -41	TP5
204093 -42	TP7-12.5
	11 / 12.0

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/28/22 Date Received: 04/07/22 Project: Site 5 Kenyon Street Vacant Lot 2021-552-11, F&BI 204093 Date Analyzed: 04/20/22

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

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<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	Surrogate (<u>% Recovery</u>) (Limit 50-150)
TP1-7.5 204093-03	<5	78
TP1-21.5 204093-09	<5	80
TP2-15 204093-15	<5	71
Method Blank 02-881 MB	<5	86

ENVIRONMENTAL CHEMISTS

Date of Report: 04/28/22 Date Received: 04/07/22 Project: Site 5 Kenyon Street Vacant Lot 2021-552-11, F&BI 204093 Date Extracted: 04/20/22 Date Analyzed: 04/20/22

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	Diesel Range (C10-C25)	Motor Oil Range (C25-C36)	Surrogate <u>(% Recovery)</u> (Limit 56-165)
TP1-7.5 204093-03	<50	<250	104
TP1-21.5 204093-09	<50	<250	98
TP2-15 204093-15	<50	<250	100
Method Blank 02-967 mb 04-20-22 08:19	<50	<250	98

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	TP1-14	Client:	The Riley Group
Date Received:	04/07/22	Project:	2021-552-11, F&BI 204093
Date Extracted:	04/20/22	Lab ID:	204093-06
Date Analyzed:	04/20/22	Data File:	204093-06.112
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP
Analyte: Lead	Concentration mg/kg (ppm) 2.43	•	

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	TP5-10	Client:	The Riley Group
Date Received:	04/07/22	Project:	2021-552-11, F&BI 204093
Date Extracted:	04/20/22	Lab ID:	204093-31
Date Analyzed:	04/20/22	Data File:	204093-31.100
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP
Analyte: Lead	Concentration mg/kg (ppm) 3.32		

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	The Riley Group
Date Received:	NA	Project:	2021-552-11, F&BI 204093
Date Extracted:	04/20/22	Lab ID:	I2-298 mb2
Date Analyzed:	04/20/22	Data File:	I2-298 mb2.078
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP
Analyte: Lead	Concentration mg/kg (ppm) <1	-	

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	TP1-14 04/07/22 04/20/22 04/21/22 Soil mg/kg (ppm) Dry Weigl	Client: Project: Lab ID: Data File: Instrument: ot Operator:	The Riley Group 2021-552-11, F&BI 204093 204093-06 1/5 042109.D GCMS12 VM
Surrogates: 2-Fluorophenol Phenol-d6 Nitrobenzene-d5 2-Fluorobiphenyl 2,4,6-Tribromopher Terphenyl-d14	% Recover 77 84 98 93 nol 94 93	ry: Lower 39 48 23 50 40 50	Upper Limit: 103 109 138 150 127 150
Compounds:	Concentrat mg/kg (pp	-	
Naphthalene 2-Methylnaphthale 1-Methylnaphthale Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benz(a)anthracene Chrysene Benzo(a)pyrene Benzo(b)fluoranthe Benzo(k)fluoranthe Indeno(1,2,3-cd)pyr Dibenz(a,h)anthrac Benzo(g,h,i)peryler	$\begin{array}{cccc} \text{ne} & 0.34 \\ < 0.01 \\ 0.51 \\ 1.3 \\ 2.4 \\ < 0.01 \\ 0.033 \\ 0.10 \\ < 0.01 \\ < 0.01 \\ < 0.01 \\ < 0.01 \\ < 0.01 \\ < 0.01 \\ \text{ene} & < 0.01 \end{array}$		

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Blank Not Applicable 04/20/22 04/21/22 Soil mg/kg (ppm) Dry Weight	Client: Project: Lab ID: Data File: Instrument: Operator:	The Riley Group 2021-552-11, F&BI 204093 02-965 mb2 1/5 042107.D GCMS12 VM
Surrogates: 2-Fluorophenol Phenol-d6 Nitrobenzene-d5 2-Fluorobiphenyl 2,4,6-Tribromopher Terphenyl-d14	% Recovery:	Lower Limit: 39 48 23 50 40 50	Upper Limit: 103 109 138 150 127 150
Compounds:	Concentration mg/kg (ppm)		
Naphthalene 2-Methylnaphthale 1-Methylnaphthale Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benz(a)anthracene Chrysene Benzo(a)pyrene Benzo(b)fluoranthe Benzo(k)fluoranthe Indeno(1,2,3-cd)pyr Dibenz(a,h)anthrac Benzo(g,h,i)peryler	$\begin{array}{rcl} \text{ene} & <0.01 \\ & <0.01 \\ & <0.01 \\ & <0.01 \\ & <0.01 \\ & <0.01 \\ & <0.01 \\ & <0.01 \\ & <0.01 \\ & <0.01 \\ & <0.01 \\ & <0.01 \\ & \\ & \text{ene} & <0.01 \\ & \\ & \text{ene} & <0.01 \\ & \\ & \\ & \text{cene} & <0.01 \end{array}$		

ENVIRONMENTAL CHEMISTS

Date of Report: 04/28/22 Date Received: 04/07/22 Project: Site 5 Kenyon Street Vacant Lot 2021-552-11, F&BI 204093

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TPH AS GASOLINE USING METHOD NWTPH-Gx

Laboratory Code: 204252-01 (Duplicate)										
	Sample Duplicate									
	Reporting	Resu	lt	Result	RPD					
Analyte	Units	(Wet V	Vt) (V	Wet Wt)	(Limit 20)					
Gasoline	mg/kg (ppm)	<5		<5	nm					
Laboratory Code: Laboratory Control Sample Percent										
	Reporting	Spike	Recovery	y Acceptance	1					
Analyte	Units	Level	LCS	Criteria						
Gasoline	mg/kg (ppm)	20	105	71-131						

ENVIRONMENTAL CHEMISTS

Date of Report: 04/28/22 Date Received: 04/07/22 Project: Site 5 Kenyon Street Vacant Lot 2021-552-11, F&BI 204093

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code:	204291-01 (Matri	x Spike)					
			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet Wt)	MS	MSD	Criteria	(Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	86	86	63-146	0
Laboratory Code:	Laboratory Contr	rol Samp	le				
			Percent	t			
	Reporting	Spike	Recover	y Accep	tance		
Analyte	Units	Level	LCS	Crit	eria		
Diesel Extended	mg/kg (ppm)	5,000	80		144		

ENVIRONMENTAL CHEMISTS

Date of Report: 04/28/22 Date Received: 04/07/22 Project: Site 5 Kenyon Street Vacant Lot 2021-552-11, F&BI 204093

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 6020B

Laboratory Code: 204282-01 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet wt)	${ m MS}$	MSD	Criteria	(Limit 20)
Lead	mg/kg (ppm)	50	4.11	93	93	75 - 125	0

Laboratory Code: Laboratory Control Sample

Laboratory Co	de: Laboratory Con	troi Sample		
			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Lead	mg/kg (ppm)	50	98	80-120

ENVIRONMENTAL CHEMISTS

Date of Report: 04/28/22 Date Received: 04/07/22 Project: Site 5 Kenyon Street Vacant Lot 2021-552-11, F&BI 204093

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270E

Laboratory Code: 204252-01 1/5 (Matrix Spike)

Laboratory Code: 204252-01 1/5 (Matrix Spike)							
Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.83	< 0.01	82	85	34-118	4
2-Methylnaphthalene	mg/kg (ppm)	0.83	< 0.01	86	91	29-130	6
1-Methylnaphthalene	mg/kg (ppm)	0.83	< 0.01	85	91	37-119	7
Acenaphthylene	mg/kg (ppm)	0.83	< 0.01	92	97	45-128	5
Acenaphthene	mg/kg (ppm)	0.83	< 0.01	90	94	36 - 125	4
Fluorene	mg/kg (ppm)	0.83	< 0.01	94	99	48-121	5
Phenanthrene	mg/kg (ppm)	0.83	< 0.01	96	95	50 - 150	1
Anthracene	mg/kg (ppm)	0.83	< 0.01	96	97	50 - 150	1
Fluoranthene	mg/kg (ppm)	0.83	< 0.01	102	99	50 - 150	3
Pyrene	mg/kg (ppm)	0.83	< 0.01	98	107	50 - 150	9
Benz(a)anthracene	mg/kg (ppm)	0.83	< 0.01	95	98	50 - 150	3
Chrysene	mg/kg (ppm)	0.83	< 0.01	96	100	50 - 150	4
Benzo(a)pyrene	mg/kg (ppm)	0.83	< 0.01	97	99	50 - 150	2
Benzo(b)fluoranthene	mg/kg (ppm)	0.83	< 0.01	96	98	50 - 150	2
Benzo(k)fluoranthene	mg/kg (ppm)	0.83	< 0.01	99	100	50 - 150	1
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.83	< 0.01	102	107	41-134	5
Dibenz(a,h)anthracene	mg/kg (ppm)	0.83	< 0.01	106	103	44-130	3
Benzo(g,h,i)perylene	mg/kg (ppm)	0.83	< 0.01	104	101	33-131	3

ENVIRONMENTAL CHEMISTS

Date of Report: 04/28/22 Date Received: 04/07/22 Project: Site 5 Kenyon Street Vacant Lot 2021-552-11, F&BI 204093

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270E

Laboratory Code: Laboratory Control Sample 1/5

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Naphthalene	mg/kg (ppm)	0.83	89	58-108
2-Methylnaphthalene	mg/kg (ppm)	0.83	93	67-108
1-Methylnaphthalene	mg/kg (ppm)	0.83	93	66-107
Acenaphthylene	mg/kg (ppm)	0.83	94	70-130
Acenaphthene	mg/kg (ppm)	0.83	92	66-112
Fluorene	mg/kg (ppm)	0.83	96	67-117
Phenanthrene	mg/kg (ppm)	0.83	97	70-130
Anthracene	mg/kg (ppm)	0.83	98	70-130
Fluoranthene	mg/kg (ppm)	0.83	104	70-130
Pyrene	mg/kg (ppm)	0.83	97	70-130
Benz(a)anthracene	mg/kg (ppm)	0.83	98	70-130
Chrysene	mg/kg (ppm)	0.83	99	70-130
Benzo(a)pyrene	mg/kg (ppm)	0.83	100	68-120
Benzo(b)fluoranthene	mg/kg (ppm)	0.83	99	69-125
Benzo(k)fluoranthene	mg/kg (ppm)	0.83	101	70-130
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.83	112	67-129
Dibenz(a,h)anthracene	mg/kg (ppm)	0.83	110	67-128
Benzo(g,h,i)perylene	mg/kg (ppm)	0.83	109	64-127

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht – The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

 ${\rm J}$ - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

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ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Vineta Mills, M.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

April 15, 2022

Eric Zuern, Project Manager The Riley Group, Inc. 17522 Bothell Way NE Bothell, WA 98011

Dear Mr Zuern:

Included are the results from the testing of material submitted on April 7, 2022 from the Site 5 Kenyon Street Vacant Lot 2021-552-11, F&BI 204093 project. There are 26 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Cale

Michael Erdahl Project Manager

Enclosures TRG0415R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on April 7, 2022 by Friedman & Bruya, Inc. from the The Riley Group Site 5 Kenyon Street Vacant Lot 2021-552-11, F&BI 204093 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	The Riley Group
204093 -01	TP1-2.5
204093 -02	TP1-5
204093 -03	TP1-7.5
204093 -04	TP1-10
204093 -05	TP1-12.5
204093 -06	TP1-14
204093 -07	TP1-17
204093 -08	TP1-18/19
204093 -09	TP1-21.5
204093 -10	TP1-24
204093 -11	TP2-5
204093 -12	TP2-7.5
204093 -13	TP2-10
204093 -14	TP2-12.5
204093 -15	TP2-15
204093 -16	TP3-5
204093 -17	TP3-7.5
204093 -18	TP3-10
204093 -19	TP3-12.5
204093 -20	TP3-14
204093 -21	TP3-16.5
204093 -22	TP3-18
204093 -23	TP4-5
204093 -24	TP4-7.5
204093 -25	TP4-10
204093 -26	TP4-12.5
204093 -27	TP4-15
204093 -28	TP5-2.5
204093 -29	TP5-5
204093 -30	TP5-7.5
204093 -31	TP5-10
204093 -32	TP5-12.5
204093 -33	TP5-15
204093 -34	TP5-17.5
204093 -35	TP5-19
204093 -36	TP6-2.5

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE (continued)

<u>Laboratory ID</u>	<u>The Riley Group</u>
204093 -37	TP6-5
204093 -38	TP6-7.5
204093 -39	TP7-10
204093 -40	TP7-14
204093 -41	TP5
204093 -42	TP7-12.5

The 8260D water calibration standard failed the acceptance criteria for bromomethane and chlorethane. The data were flagged accordingly.

All other quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/15/22 Date Received: 04/07/22 Project: Site 5 Kenyon Street Vacant Lot 2021-552-11, F&BI 204093 Date Extracted: 04/08/22 Date Analyzed: 04/11/22

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	Surrogate (<u>% Recovery</u>) (Limit 50-150)
TP1-14 204093-06 1/5	940	132
TP1-24 204093-10	<5	96
TP2-7.5 204093-12	<5	98
TP3-16.5 204093-21	<5	74
TP4-10 204093-25	<5	82
TP5-10 204093-31 1/50	1,700	92
${ m TP5-17.5}_{ m 204093-34}$	<5	74
TP7-14 204093-40	<5	85
Method Blank	<5	90

02-817 MB2

ENVIRONMENTAL CHEMISTS

Date of Report: 04/15/22 Date Received: 04/07/22 Project: Site 5 Kenyon Street Vacant Lot 2021-552-11, F&BI 204093 Date Extracted: 04/12/22 Date Analyzed: 04/12/22

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	Gasoline Range	Surrogate (<u>% Recovery)</u> (Limit 51-134)
TP5 204093-41	<100	95
Method Blank 02-819 MB	<100	86

ENVIRONMENTAL CHEMISTS

Date of Report: 04/15/22 Date Received: 04/07/22 Project: Site 5 Kenyon Street Vacant Lot 2021-552-11, F&BI 204093 Date Extracted: 04/08/22 Date Analyzed: 04/08/22

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	Diesel Range (C10-C25)	Motor Oil Range (C25-C36)	Surrogate <u>(% Recovery)</u> (Limit 48-168)
TP1-14 204093-06	5,700	<250	103
TP1-24 204093-10	<50	<250	98
TP2-7.5 204093-12	<50	<250	95
TP3-16.5 204093-21	<50	<250	97
TP4-10 204093-25	<50	<250	95
TP5-10 204093-31	<50	<250	96
TP5-17.5 204093-34	<50	<250	100
TP7-14 204093-40	<50	<250	103
Method Blank 02-860 MB	<50	<250	95

 $02-860 \mathrm{MB}$

ENVIRONMENTAL CHEMISTS

Date of Report: 04/15/22 Date Received: 04/07/22 Project: Site 5 Kenyon Street Vacant Lot 2021-552-11, F&BI 204093 Date Extracted: 04/08/22 Date Analyzed: 04/08/22

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	Diesel Range (C10-C25)	Motor Oil Range (C25-C36)	Surrogate <u>(% Recovery)</u> (Limit 41-152)
TP5 204093-41	150 x	<250	113
Method Blank 02-851 MB2	<50	<250	127

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	TP1-14 04/07/22 04/08/22 04/08/22 Soil mg/kg (ppr	n) Dry Weight	Client: Project: Lab ID: Data File: Instrument: Operator:	The Riley Group 2021-552-11, F&BI 2 204093-06 040814.D GCMS4 RF	04093
			Lower	Upper	
Surrogates:		% Recovery:	Limit:	Limit:	
1,2-Dichloroethane	e-d4	99	90	109	
Toluene-d8		92	89	112	
4-Bromofluorobenz	ene	112	84	115	
Compounds:		Concentration mg/kg (ppm)	Compou	nds:	Concentration mg/kg (ppm)
Dichlorodifluorome	ethane	< 0.5	1,3-Dich	loropropane	< 0.05
Chloromethane		< 0.5	Tetrach	loroethene	< 0.025
Vinyl chloride		< 0.05		ochloromethane	< 0.05
Bromomethane		< 0.5		romoethane (EDB)	< 0.05
Chloroethane		< 0.5	Chlorob		< 0.05
Trichlorofluoromet	hane	< 0.5	Ethylbe		< 0.05
Acetone		<5		Fetrachloroethane	< 0.05
1,1-Dichloroethene		< 0.05	m,p-Xyle		< 0.1
Hexane		<0.25	o-Xylene	9	< 0.05
Methylene chloride		<0.5	Styrene	11	< 0.05
Methyl t-butyl ethe		< 0.05		vlbenzene	< 0.05
trans-1,2-Dichloroe		< 0.05	Bromofo		< 0.05
1,1-Dichloroethane		< 0.05		lbenzene	0.12
2,2-Dichloropropan		< 0.05	Bromobe		<0.05
cis-1,2-Dichloroeth Chloroform	ene	<0.05 <0.05		imethylbenzene Fetrachloroethane	$< 0.05 \\ < 0.05$
2-Butanone (MEK)		<0.05		ichloropropane	<0.05
1,2-Dichloroethane		<0.05	2-Chlore		<0.05
1,1,1-Trichloroetha		<0.05	4-Chlore		< 0.05
1,1-Dichloropropen		<0.05		ylbenzene	< 0.05
Carbon tetrachlori		< 0.05		imethylbenzene	0.11
Benzene		< 0.03		ylbenzene	0.66
Trichloroethene		< 0.02	•	pyltoluene	0.33
1,2-Dichloropropan	ie	< 0.05		lorobenzene	< 0.05
Bromodichloromet		< 0.05		lorobenzene	< 0.05
Dibromomethane		< 0.05	1,2-Dich	lorobenzene	< 0.05
4-Methyl-2-pentan	one	<1	1,2-Dibr	omo-3-chloropropane	< 0.5
cis-1,3-Dichloropro		< 0.05	1,2,4-Tr	ichlorobenzene	< 0.25
Toluene		< 0.05		orobutadiene	< 0.25
trans-1,3-Dichlorop		< 0.05	Naphtha		< 0.05
1,1,2-Trichloroetha	ine	< 0.05	1,2,3-Tr	ichlorobenzene	< 0.25
2-Hexanone		< 0.5			

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	TP1-24 04/07/22 04/08/22 04/08/22 Soil mg/kg (ppr	n) Dry Weight	Client: Project: Lab ID: Data File: Instrument: Operator:	The Riley Group 2021-552-11, F&BI 2 204093-10 040815.D GCMS4 RF	04093
a		N/ D	Lower	Upper	
Surrogates: 1,2-Dichloroethane	d 4	% Recovery: 98	Limit: 90	Limit: 109	
Toluene-d8	-44	98 93	90 89	109	
4-Bromofluorobenz	ene	105	84	112	
Compounds:		Concentration mg/kg (ppm)	Compou	nds:	Concentration mg/kg (ppm)
Dichlorodifluorome	ethane	< 0.5		loropropane	< 0.05
Chloromethane		< 0.5		loroethene	< 0.025
Vinyl chloride		< 0.05		ochloromethane	< 0.05
Bromomethane		<0.5		romoethane (EDB)	< 0.05
Chloroethane	1	<0.5	Chlorob		<0.05
Trichlorofluoromet Acetone	nane	<0.5 <5	Ethylber	nzene Fetrachloroethane	$< 0.05 \\ < 0.05$
1,1-Dichloroethene		<0.05	n,p-Xyle		<0.05
Hexane		<0.25	o-Xylene		< 0.05
Methylene chloride	9	<0.5	Styrene		< 0.05
Methyl t-butyl ethe		< 0.05		vlbenzene	< 0.05
trans-1,2-Dichloroe		< 0.05	Bromofo		< 0.05
1,1-Dichloroethane	•	< 0.05	n-Propy	lbenzene	< 0.05
2,2-Dichloropropan		< 0.05	Bromobe		< 0.05
cis-1,2-Dichloroeth	ene	< 0.05		imethylbenzene	< 0.05
Chloroform		< 0.05		Fetrachloroethane	< 0.05
2-Butanone (MEK)		<1		ichloropropane	< 0.05
1,2-Dichloroethane	· /	< 0.05	2-Chloro 4-Chloro		<0.05
1,1,1-Trichloroetha 1,1-Dichloropropen		<0.05 <0.05		ylbenzene	$< 0.05 \\ < 0.05$
Carbon tetrachlorie		< 0.05		imethylbenzene	<0.05
Benzene	uc	<0.03		zlbenzene	< 0.05
Trichloroethene		< 0.02		pyltoluene	< 0.05
1,2-Dichloropropan	ie	< 0.05		lorobenzene	< 0.05
Bromodichlorometh		< 0.05	1,4-Dich	lorobenzene	< 0.05
Dibromomethane		< 0.05	1,2-Dich	lorobenzene	< 0.05
4-Methyl-2-pentan		<1		omo-3-chloropropane	< 0.5
cis-1,3-Dichloropro	pene	< 0.05		ichlorobenzene	< 0.25
Toluene		< 0.05		orobutadiene	< 0.25
trans-1,3-Dichlorop		< 0.05	Naphtha		< 0.05
1,1,2-Trichloroetha	ine	< 0.05	1,2,3-Tr	ichlorobenzene	< 0.25
2-Hexanone		< 0.5			

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	TP2-7.5 04/07/22 04/08/22 04/08/22 Soil mg/kg (ppr	n) Dry Weight	Client: Project: Lab ID: Data File: Instrument: Operator:	The Riley Group 2021-552-11, F&BI 20 204093-12 040816.D GCMS4 RF	04093
			Lower	Upper	
Surrogates:	14	% Recovery:	Limit:	Limit:	
1,2-Dichloroethane Toluene-d8	e-d4	99 96	90 89	$109\\112$	
4-Bromofluorobenz	ono	98 109	89 84	112 115	
4-Dromonuorobenz	ene		04	110	
Compounds:		Concentration mg/kg (ppm)	Compou	nds:	Concentration mg/kg (ppm)
Dichlorodifluorome	ethane	< 0.5	1,3-Dich	loropropane	< 0.05
Chloromethane		< 0.5		loroethene	< 0.025
Vinyl chloride		< 0.05		ochloromethane	< 0.05
Bromomethane		< 0.5		omoethane (EDB)	< 0.05
Chloroethane	_	< 0.5	Chlorob		< 0.05
Trichlorofluoromet	hane	< 0.5	Ethylber		< 0.05
Acetone		<5		Tetrachloroethane	< 0.05
1,1-Dichloroethene		<0.05 <0.25	m,p-Xyle		<0.1
Hexane Methylene chloride		<0.25 <0.5	o-Xylene Styrene	Ĵ,	$< 0.05 \\ < 0.05$
Methyl t-butyl ethe		<0.05		lbenzene	<0.05
trans-1,2-Dichloroe		< 0.05	Bromofo		< 0.05
1,1-Dichloroethane		<0.05		lbenzene	< 0.05
2,2-Dichloropropan		< 0.05	Bromobe		< 0.05
cis-1,2-Dichloroeth		< 0.05		imethylbenzene	< 0.05
Chloroform		< 0.05		Tetrachloroethane	< 0.05
2-Butanone (MEK)		<1	1,2,3-Tr	ichloropropane	< 0.05
1,2-Dichloroethane	· /	< 0.05	2-Chloro		< 0.05
1,1,1-Trichloroetha		< 0.05	4-Chloro		< 0.05
1,1-Dichloropropen		< 0.05		ylbenzene	< 0.05
Carbon tetrachlorie	de	< 0.05		imethylbenzene	< 0.05
Benzene		< 0.03		vlbenzene	< 0.05
Trichloroethene		< 0.02		pyltoluene	< 0.05
1,2-Dichloropropan Bromodichlorometl		<0.05 <0.05		lorobenzene lorobenzene	<0.05 <0.05
Dibromomethane	liane	< 0.05		lorobenzene	< 0.05
4-Methyl-2-pentan	one	<1		omo-3-chloropropane	<0.5
cis-1,3-Dichloropro		<0.05		ichlorobenzene	<0.25
Toluene	P 0110	< 0.05		orobutadiene	<0.25
trans-1,3-Dichlorop	propene	< 0.05	Naphtha		< 0.05
1,1,2-Trichloroetha	-	< 0.05	-	ichlorobenzene	< 0.25
2-Hexanone		< 0.5			

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	TP3-16.5 04/07/22 04/08/22 04/08/22 Soil mg/kg (ppr	n) Dry Weight	Client: Project: Lab ID: Data File: Instrument: Operator:	The Riley Group 2021-552-11, F&BI 2 204093-21 040817.D GCMS4 RF	04093
			Lower	Upper	
Surrogates:	1.4	% Recovery:	Limit:	Limit:	
1,2-Dichloroethane	e-d4	103	90	109	
Toluene-d8 4-Bromofluorobenz		$\frac{94}{106}$	$\frac{89}{84}$	$112\\115$	
4-Dromonuorobenz	ene	106	04	110	
Compounds:		Concentration mg/kg (ppm)	Compou	nds:	Concentration mg/kg (ppm)
Dichlorodifluorome	ethane	< 0.5	1,3-Dich	loropropane	< 0.05
Chloromethane		< 0.5	Tetrach	loroethene	< 0.025
Vinyl chloride		< 0.05		ochloromethane	< 0.05
Bromomethane		< 0.5		romoethane (EDB)	< 0.05
Chloroethane	_	< 0.5	Chlorob		< 0.05
Trichlorofluoromet	hane	< 0.5	Ethylber		< 0.05
Acetone		<5		Fetrachloroethane	< 0.05
1,1-Dichloroethene		< 0.05	m,p-Xyle		<0.1
Hexane		<0.25	o-Xylene	e	<0.05
Methylene chloride		<0.5 <0.05	Styrene	lhonzono	$< 0.05 \\ < 0.05$
Methyl t-butyl ethe trans-1,2-Dichloroe		< 0.05	Bromofo	vlbenzene	<0.05 <0.05
1,1-Dichloroethane		< 0.05		lbenzene	<0.05
2,2-Dichloropropan		< 0.05	Bromobe		<0.05
cis-1,2-Dichloroeth		<0.05		imethylbenzene	<0.05
Chloroform	ene	<0.05		Fetrachloroethane	< 0.05
2-Butanone (MEK)		<1		ichloropropane	< 0.05
1,2-Dichloroethane		< 0.05	2-Chloro		< 0.05
1,1,1-Trichloroetha		< 0.05	4-Chloro		< 0.05
1,1-Dichloropropen		< 0.05	tert-But	ylbenzene	< 0.05
Carbon tetrachlorie	de	< 0.05	1,2,4-Tr	imethylbenzene	< 0.05
Benzene		< 0.03	sec-Buty	lbenzene	< 0.05
Trichloroethene		< 0.02		pyltoluene	< 0.05
1,2-Dichloropropan		< 0.05		lorobenzene	< 0.05
Bromodichlorometh	hane	< 0.05	,	lorobenzene	< 0.05
Dibromomethane		< 0.05		lorobenzene	< 0.05
4-Methyl-2-pentan		<1		omo-3-chloropropane	< 0.5
cis-1,3-Dichloropro	pene	< 0.05		ichlorobenzene	<0.25
Toluene		< 0.05		orobutadiene	<0.25
trans-1,3-Dichlorop		< 0.05	Naphtha		<0.05
1,1,2-Trichloroetha	ine	<0.05	1,2,3-Tr	ichlorobenzene	< 0.25
2-Hexanone		< 0.5			

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	TP4-10 04/07/22 04/08/22 04/08/22 Soil mg/kg (ppr	n) Dry Weight	Client: Project: Lab ID: Data File: Instrument: Operator:	The Riley Group 2021-552-11, F&BI 2 204093-25 040819.D GCMS4 RF	04093
			Lower	Upper	
Surrogates:	1.4	% Recovery:	Limit:	Limit:	
1,2-Dichloroethane	e-d4	96	90	109	
Toluene-d8		94	89	112	
4-Bromofluorobenz	ene	108	84	115	
Compounds:		Concentration mg/kg (ppm)	Compou	nds:	Concentration mg/kg (ppm)
Dichlorodifluorome	ethane	< 0.5	1,3-Dich	loropropane	< 0.05
Chloromethane		< 0.5	Tetrach	loroethene	< 0.025
Vinyl chloride		< 0.05		ochloromethane	< 0.05
Bromomethane		< 0.5		romoethane (EDB)	< 0.05
Chloroethane	_	< 0.5	Chlorob		< 0.05
Trichlorofluoromet	hane	< 0.5	Ethylber		< 0.05
Acetone		<5		Fetrachloroethane	< 0.05
1,1-Dichloroethene		< 0.05	m,p-Xyle		<0.1
Hexane Matherland ablastic		<0.25 <0.5	o-Xylene	9	<0.05
Methylene chloride Methyl t-butyl ethe		<0.5 <0.05	Styrene	vlbenzene	$< 0.05 \\ < 0.05$
trans-1,2-Dichloroe		< 0.05	Bromofo		<0.05
1,1-Dichloroethane		<0.05		lbenzene	< 0.05
2,2-Dichloropropan		<0.05	Bromobe		< 0.05
cis-1,2-Dichloroeth		< 0.05		imethylbenzene	< 0.05
Chloroform		< 0.05		Fetrachloroethane	< 0.05
2-Butanone (MEK)		<1		ichloropropane	< 0.05
1,2-Dichloroethane	(EDC)	< 0.05	2-Chloro	otoluene	< 0.05
1,1,1-Trichloroetha		< 0.05	4-Chloro		< 0.05
1,1-Dichloropropen		< 0.05		ylbenzene	< 0.05
Carbon tetrachlori	de	< 0.05		imethylbenzene	< 0.05
Benzene		< 0.03	•	vlbenzene	< 0.05
Trichloroethene		< 0.02		pyltoluene	< 0.05
1,2-Dichloropropan		< 0.05		lorobenzene	<0.05
Bromodichloromet	nane	< 0.05	,	lorobenzene	<0.05
Dibromomethane		< 0.05		llorobenzene	<0.05
4-Methyl-2-pentan		<1		omo-3-chloropropane	<0.5
cis-1,3-Dichloropro Toluene	pene	$< 0.05 \\ < 0.05$		ichlorobenzene orobutadiene	$<\!$
trans-1,3-Dichlorop	ronene	< 0.05	Naphtha		<0.25
1,1,2-Trichloroetha		< 0.05		ichlorobenzene	<0.05
2-Hexanone		<0.5	1,2,0 11		

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	TP5-10 04/07/22 04/08/22 04/08/22 Soil mg/kg (ppr	n) Dry Weight	Client: Project: Lab ID: Data File: Instrument: Operator:	The Riley Group 2021-552-11, F&BI 2 204093-31 040818.D GCMS4 RF	04093
			Lower	Upper	
Surrogates:	14	% Recovery:	Limit:	Limit:	
1,2-Dichloroethane Toluene-d8	-04	$96 \\ 95$	90 89	$109\\112$	
4-Bromofluorobenz	ene	103	84 84	112	
		Concentration			Concentration
Compounds:		Concentration mg/kg (ppm)	Compou	nds:	Concentration mg/kg (ppm)
Dichlorodifluorome	ethane	< 0.5		loropropane	< 0.05
Chloromethane		< 0.5		loroethene	< 0.025
Vinyl chloride		< 0.05		ochloromethane	< 0.05
Bromomethane		< 0.5		romoethane (EDB)	< 0.05
Chloroethane	1	<0.5	Chlorob		< 0.05
Trichlorofluoromet	hane	<0.5	Ethylber		<0.05
Acetone 1,1-Dichloroethene		<5 <0.05	1,1,1,2-1 m,p-Xyl	Fetrachloroethane	<0.05 <0.1
Hexane		<0.05	o-Xylene		<0.1 <0.05
Methylene chloride	2	<0.20	Styrene	2	< 0.05
Methyl t-butyl ethe		< 0.05		vlbenzene	< 0.05
trans-1,2-Dichloroe		< 0.05	Bromofo		< 0.05
1,1-Dichloroethane		< 0.05	n-Propy	lbenzene	< 0.05
2,2-Dichloropropan	ie	< 0.05	Bromobe	enzene	< 0.05
cis-1,2-Dichloroeth	ene	< 0.05		imethylbenzene	0.11
Chloroform		< 0.05		Fetrachloroethane	< 0.05
2-Butanone (MEK)		<1		ichloropropane	< 0.05
1,2-Dichloroethane		< 0.05	2-Chloro		< 0.05
1,1,1-Trichloroetha		< 0.05	4-Chloro		<0.05
1,1-Dichloropropen Carbon tetrachlorid		<0.05 <0.05		ylbenzene imethylbenzene	$<\!$
Benzene	ue	< 0.03		zlbenzene	0.083
Trichloroethene		< 0.02		pyltoluene	0.033 0.052
1,2-Dichloropropan	le	< 0.05		lorobenzene	< 0.05
Bromodichlorometl		< 0.05	,	lorobenzene	< 0.05
Dibromomethane		< 0.05		lorobenzene	< 0.05
4-Methyl-2-pentan	one	<1		omo-3-chloropropane	< 0.5
cis-1,3-Dichloropro	pene	< 0.05	1,2,4-Tr	ichlorobenzene	< 0.25
Toluene		< 0.05		orobutadiene	< 0.25
trans-1,3-Dichlorop		< 0.05	Naphtha		0.19
1,1,2-Trichloroetha	ine	< 0.05	1,2,3-Tr	ichlorobenzene	< 0.25
2-Hexanone		< 0.5			

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	TP5-17.5 04/07/22 04/08/22 04/08/22 Soil mg/kg (ppn	n) Dry Weight	Client: Project: Lab ID: Data File: Instrument: Operator:	The Riley Group 2021-552-11, F&BI 20 204093-34 040820.D GCMS4 RF	04093
			Lower	Upper	
Surrogates:	1.4	% Recovery:	Limit:	Limit:	
1,2-Dichloroethane	e-d4	93	90	109	
Toluene-d8 4-Bromofluorobenz		$\frac{96}{106}$	$\frac{89}{84}$	$\begin{array}{c} 112\\115\end{array}$	
4-Dromonuorobenz	ene	106	04	110	
Compounds:		Concentration mg/kg (ppm)	Compou	nds:	Concentration mg/kg (ppm)
Dichlorodifluorome	ethane	< 0.5	1,3-Dich	loropropane	< 0.05
Chloromethane		< 0.5	Tetrachl	loroethene	< 0.025
Vinyl chloride		< 0.05		ochloromethane	< 0.05
Bromomethane		< 0.5		omoethane (EDB)	< 0.05
Chloroethane	_	< 0.5	Chlorob		< 0.05
Trichlorofluoromet	hane	<0.5	Ethylber		< 0.05
Acetone		<5		Tetrachloroethane	< 0.05
1,1-Dichloroethene		<0.05 <0.25	m,p-Xyle		<0.1
Hexane Methylene chloride		<0.25 <0.5	o-Xylene Styrene		$< 0.05 \\ < 0.05$
Methyl t-butyl ethe		<0.05	-	vlbenzene	<0.05
trans-1,2-Dichloroe		< 0.05	Bromofo		< 0.05
1,1-Dichloroethane		< 0.05		lbenzene	< 0.05
2,2-Dichloropropan		< 0.05	Bromobe		< 0.05
cis-1,2-Dichloroeth		< 0.05		imethylbenzene	< 0.05
Chloroform		< 0.05		Tetrachloroethane	< 0.05
2-Butanone (MEK)		<1		ichloropropane	< 0.05
1,2-Dichloroethane		< 0.05	2-Chloro		< 0.05
1,1,1-Trichloroetha		< 0.05	4-Chloro		< 0.05
1,1-Dichloropropen		< 0.05		ylbenzene	< 0.05
Carbon tetrachlorie	de	< 0.05		imethylbenzene	< 0.05
Benzene		< 0.03	v	vlbenzene	<0.05
Trichloroethene 1,2-Dichloropropan		<0.02 <0.05		pyltoluene	<0.05 <0.05
Bromodichlorometl		<0.05		lorobenzene lorobenzene	<0.05
Dibromomethane	lialle	< 0.05		lorobenzene	< 0.05
4-Methyl-2-pentan	one	<1		omo-3-chloropropane	< 0.5
cis-1,3-Dichloropro		< 0.05		ichlorobenzene	< 0.25
Toluene	± -	< 0.05	· · ·	orobutadiene	< 0.25
trans-1,3-Dichlorop	oropene	< 0.05	Naphtha		< 0.05
1,1,2-Trichloroetha	-	< 0.05		ichlorobenzene	< 0.25
2-Hexanone		<0.5			

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	TP7-14 04/07/22 04/08/22 04/08/22 Soil mg/kg (ppr	n) Dry Weight	Client: Project: Lab ID: Data File: Instrument: Operator:	The Riley Group 2021-552-11, F&BI 2 204093-40 040821.D GCMS4 RF	04093
			Lower	Upper	
Surrogates:	•	% Recovery:	Limit:	Limit:	
1,2-Dichloroethane	e-d4	95	90	109	
Toluene-d8		94 100	89	112	
4-Bromofluorobenz	ene	106	84	115	
Compounds:		Concentration mg/kg (ppm)	Compou	nds:	Concentration mg/kg (ppm)
Dichlorodifluorome	ethane	< 0.5	1,3-Dich	loropropane	< 0.05
Chloromethane		< 0.5	Tetrach	loroethene	< 0.025
Vinyl chloride		< 0.05		ochloromethane	< 0.05
Bromomethane		< 0.5		romoethane (EDB)	< 0.05
Chloroethane	_	< 0.5	Chlorob		< 0.05
Trichlorofluoromet	hane	< 0.5	Ethylber		< 0.05
Acetone		<5		Fetrachloroethane	< 0.05
1,1-Dichloroethene		< 0.05	m,p-Xyle		<0.1
Hexane		<0.25	o-Xylene	e	<0.05
Methylene chloride		<0.5 <0.05	Styrene	lhonzono	$< 0.05 \\ < 0.05$
Methyl t-butyl ethe trans-1,2-Dichloroe		< 0.05	Bromofo	vlbenzene	<0.05 <0.05
1,1-Dichloroethane		< 0.05		lbenzene	<0.05
2,2-Dichloropropan		< 0.05	Bromobe		<0.05
cis-1,2-Dichloroeth		<0.05		imethylbenzene	<0.05
Chloroform	ene	<0.05		Fetrachloroethane	< 0.05
2-Butanone (MEK)		<1		ichloropropane	< 0.05
1,2-Dichloroethane		< 0.05	2-Chloro		< 0.05
1,1,1-Trichloroetha		< 0.05	4-Chloro		< 0.05
1,1-Dichloropropen		< 0.05	tert-But	ylbenzene	< 0.05
Carbon tetrachlori	de	< 0.05	1,2,4-Tr	imethylbenzene	< 0.05
Benzene		< 0.03	sec-Buty	lbenzene	< 0.05
Trichloroethene		< 0.02		pyltoluene	< 0.05
1,2-Dichloropropar		< 0.05		lorobenzene	< 0.05
Bromodichloromet	hane	< 0.05	,	lorobenzene	< 0.05
Dibromomethane		< 0.05		lorobenzene	< 0.05
4-Methyl-2-pentan		<1		omo-3-chloropropane	< 0.5
cis-1,3-Dichloropro	pene	< 0.05		ichlorobenzene	<0.25
Toluene		< 0.05		orobutadiene	< 0.25
trans-1,3-Dichlorop		< 0.05	Naphtha		< 0.05
1,1,2-Trichloroetha	ine	< 0.05	1,2,3-Tr	ichlorobenzene	< 0.25
2-Hexanone		< 0.5			

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Bl Not Applic 04/08/22 04/08/22 Soil mg/kg (ppr		Client: Project: Lab ID: Data File: Instrument: Operator:	The Riley Group 2021-552-11, F&BI 2 02-791 mb 040811.D GCMS4 RF	04093
			Lower	Upper	
Surrogates:	14	% Recovery:	Limit:	Limit:	
1,2-Dichloroethane Toluene-d8	e-d4	96 90	90 89	$109\\112$	
4-Bromofluorobenz	ene	90 106	89 84	112 115	
1 21011011000000			01	110	a
Compounds:		Concentration mg/kg (ppm)	Compou	nds:	Concentration mg/kg (ppm)
Dichlorodifluorome	ethane	< 0.5	1,3-Dich	loropropane	< 0.05
Chloromethane		< 0.5		loroethene	< 0.025
Vinyl chloride		< 0.05		ochloromethane	< 0.05
Bromomethane		< 0.5		romoethane (EDB)	< 0.05
Chloroethane	-	< 0.5	Chlorob		< 0.05
Trichlorofluoromet	hane	< 0.5	Ethylber		< 0.05
Acetone		<5		Tetrachloroethane	< 0.05
1,1-Dichloroethene		< 0.05	m,p-Xyle		<0.1
Hexane Matherland ablastic		<0.25	o-Xylene	9	<0.05
Methylene chloride Methyl t-butyl ethe		<0.5 <0.05	Styrene	vlbenzene	$< 0.05 \\ < 0.05$
trans-1,2-Dichloroe		< 0.05	Bromofo		<0.05
1,1-Dichloroethane		< 0.05		lbenzene	<0.05
2,2-Dichloropropan		< 0.05	Bromobe		<0.05
cis-1,2-Dichloroeth		<0.05		imethylbenzene	< 0.05
Chloroform	ene	<0.05		Fetrachloroethane	< 0.05
2-Butanone (MEK)		<1		ichloropropane	< 0.05
1,2-Dichloroethane		< 0.05	2-Chloro		< 0.05
1,1,1-Trichloroetha		< 0.05	4-Chloro		< 0.05
1,1-Dichloropropen		< 0.05	tert-But	ylbenzene	< 0.05
Carbon tetrachlori	de	< 0.05	1,2,4-Tr	imethylbenzene	< 0.05
Benzene		< 0.03		lbenzene	< 0.05
Trichloroethene		< 0.02	p-Isopro	pyltoluene	< 0.05
1,2-Dichloropropan		< 0.05		lorobenzene	< 0.05
Bromodichloromet	hane	< 0.05	,	lorobenzene	< 0.05
Dibromomethane		< 0.05		lorobenzene	< 0.05
4-Methyl-2-pentan		<1		omo-3-chloropropane	< 0.5
cis-1,3-Dichloropro	pene	< 0.05		ichlorobenzene	< 0.25
Toluene		< 0.05		orobutadiene	< 0.25
trans-1,3-Dichlorop	-	< 0.05	Naphtha		< 0.05
1,1,2-Trichloroetha	ine	< 0.05	1,2,3-Tr	ichlorobenzene	< 0.25
2-Hexanone		< 0.5			

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	TP5 04/07/22 04/13/22 04/13/22 Water ug/L (ppb)		Client: Project: Lab ID: Data File: Instrument: Operator:	The Riley Group 2021-552-11, F&BI 20 204093-41 041318.D GCMS13 WE	04093
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenze		% Recovery: 100 105 98	Lower Limit: 85 88 90	Upper Limit: 117 112 111	
Compounds:		Concentration ug/L (ppb)	Compou	nds:	Concentration ug/L (ppb)
Dichlorodifluorome Chloromethane Vinyl chloride Bromomethane Chloroethane Trichlorofluorometh Acetone 1,1-Dichloroethene Hexane Methylene chloride Methyl t-butyl ethe trans-1,2-Dichloroe 1,1-Dichloroethane 2,2-Dichloropropane cis-1,2-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Trichloroethane 1,1-Dichloropropane Carbon tetrachlorid Benzene Trichloroethene 1,2-Dichloropropane Bromodichloromethane 4-Methyl-2-pentance	nane r (MTBE) thene e ene (EDC) ne e le le	$<1 \\ <10 \\ <0.02 \\ <5 ca \\ <1 ca \\ <1 \\ <50 \\ <1 \\ <5 \\ <5 \\ <1 \\ <1 \\ <1 \\ <1 \\ <1$	Tetrachl Dibromo 1,2-Dibr Chlorobe Ethylber 1,1,1,2-T m,p-Xyle o-Xylene Styrene Isopropy Bromofo n-Propy Bromofo 1,3,5-Tr 1,1,2,2-T 1,2,3-Tr 2-Chloro 4-Chloro tert-But 1,2,4-Tr sec-Buty p-Isopro 1,3-Dich 1,2-Dich 1,2-Dibr	nzene Cetrachloroethane ene dibenzene orm lbenzene enzene imethylbenzene Cetrachloroethane ichloropropane otoluene ylbenzene imethylbenzene dibenzene pyltoluene lorobenzene lorobenzene omo-3-chloropropane	<1 <1 <1 <0.5 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1
cis-1,3-Dichloroprop Toluene trans-1,3-Dichlorop 1,1,2-Trichloroetha 2-Hexanone	ropene	<0.4 <1 <0.4 <0.5 <10	Hexachl Naphtha	ichlorobenzene orobutadiene alene ichlorobenzene	<1 <0.5 3.2 <1

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Bla Not Applica 04/13/22 04/13/22 Water ug/L (ppb)		Client: Project: Lab ID: Data File: Instrument: Operator:	The Riley Group 2021-552-11, F&BI 2 02-807 mb 041307.D GCMS13 WE	04093
C		0/ Decomo	Lower Limit:	Upper Limit:	
Surrogates: 1,2-Dichloroethane	-d4	% Recovery: 94		117	
Toluene-d8	-44	97	88	117 112	
4-Bromofluorobenz	ene	103	90	111	
		Concentration			Concentration
Compounds:		ug/L (ppb)	Compou	nds:	ug/L (ppb)
Dichlorodifluorome	ethane	<1		loropropane	<1
Chloromethane		<10		loroethene	<1
Vinyl chloride		< 0.02		ochloromethane	< 0.5
Bromomethane		<5 ca		omoethane (EDB)	<1
Chloroethane	_	<1 ca	Chlorob		<1
Trichlorofluoromet	hane	<1	Ethylber		<1
Acetone		<50		Tetrachloroethane	<1
1,1-Dichloroethene		<1	m,p-Xyle		<2
Hexane		<5	o-Xylene	e	<1
Methylene chloride		<5	Styrene	11	<1
Methyl t-butyl ethe		<1		lbenzene	<1
trans-1,2-Dichloroe		<1 <1	Bromofo		<5 <1
1,1-Dichloroethane 2,2-Dichloropropan		<1	Bromobe	lbenzene	<1
cis-1,2-Dichloroeth		<1		imethylbenzene	<1
Chloroform	ene	<1		Tetrachloroethane	<0.2
2-Butanone (MEK)		<20		ichloropropane	<1
1,2-Dichloroethane		<0.2	2-Chloro		<1
1,1,1-Trichloroetha		<1	4-Chloro		<1
1,1-Dichloropropen		<1		ylbenzene	<1
Carbon tetrachlorie		< 0.5		imethylbenzene	<1
Benzene		< 0.35		lbenzene	<1
Trichloroethene		< 0.5	p-Isopro	pyltoluene	<1
1,2-Dichloropropan	ie	<1	1,3-Dich	lorobenzene	<1
Bromodichlorometh	hane	< 0.5	1,4-Dich	lorobenzene	<1
Dibromomethane		<1		lorobenzene	<1
4-Methyl-2-pentan		<10		omo-3-chloropropane	<10
cis-1,3-Dichloropro	pene	< 0.4		ichlorobenzene	<1
Toluene		<1		orobutadiene	< 0.5
trans-1,3-Dichlorop		<0.4	Naphtha		<1
1,1,2-Trichloroetha	ne	< 0.5	1,2,3-Tri	ichlorobenzene	<1
2-Hexanone		<10			

ENVIRONMENTAL CHEMISTS

Date of Report: 04/15/22 Date Received: 04/07/22 Project: Site 5 Kenyon Street Vacant Lot 2021-552-11, F&BI 204093

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TPH AS GASOLINE USING METHOD NWTPH-Gx

Laboratory Code: 203574-05 (Duplicate)								
		Samp	le Du	uplicate				
	Reporting	Resu	lt l	Result	RPD			
Analyte	Units	(Wet V	Vt) (V	Vet Wt)	(Limit 20)			
Gasoline	mg/kg (ppm)	130		150	14			
Laboratory Code: Laboratory Control Sample								
			Percent					
	Reporting	Spike	Recovery	Acceptance				
Analyte	Units	Level	LCS	Criteria	_			
Gasoline	mg/kg (ppm)	20	90	61-153	_			

ENVIRONMENTAL CHEMISTS

Date of Report: 04/15/22 Date Received: 04/07/22 Project: Site 5 Kenyon Street Vacant Lot 2021-552-11, F&BI 204093

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TPH AS GASOLINE USING METHOD NWTPH-Gx

Laboratory Code: 204117-01 (Duplicate)								
	Reporting	Samp	le Duj	olicate	RPD			
Analyte	Units	Resul	lt Re	esult	(Limit 20)			
Gasoline	ug/L (ppb)	<100) <	100	nm			
Laboratory Code: Lab	oratory Contro	l Sample	Percent					
	Reporting	Spike	Recovery	Acceptance				
Analyte	Units	Level	LCS	Criteria	-			
Gasoline	ug/L (ppb)	1,000	88	69-134				

ENVIRONMENTAL CHEMISTS

Date of Report: 04/15/22 Date Received: 04/07/22 Project: Site 5 Kenyon Street Vacant Lot 2021-552-11, F&BI 204093

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 204100-02 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet Wt)	MS	MSD	Criteria	(Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	100	100	73-135	0
Laboratory Code: I	aboratory Contro	ol Sampl	e				
			Percent				
	Reporting	Spike	Recovery	Acceptan	ice		
Analyte	Units	Level	LCS	Criteria	a		
Diesel Extended	mg/kg (ppm)	5,000	102	74-139			

ENVIRONMENTAL CHEMISTS

Date of Report: 04/15/22 Date Received: 04/07/22 Project: Site 5 Kenyon Street Vacant Lot 2021-552-11, F&BI 204093

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 1	Laboratory Contr	ol Sample	e Silica Gel			
			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Diesel Extended	ug/L (ppb)	2,500	120	128	63-142	6

ENVIRONMENTAL CHEMISTS

Date of Report: 04/15/22 Date Received: 04/07/22 Project: Site 5 Kenyon Street Vacant Lot 2021-552-11, F&BI 204093

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 204107-01 (Matrix Spike)

Laboratory Code: 204107-01	(Matrix Spike)		~ .				
			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Dichlorodifluoromethane	mg/kg (ppm)	1	<0.5	18	18	10-142	0
Chloromethane	mg/kg (ppm)	1	< 0.5	48	45	10-126	6
Vinyl chloride	mg/kg (ppm)	1	< 0.05	51	50	10-138	2
Bromomethane	mg/kg (ppm)	1	< 0.5	54	58	10-163	7
Chloroethane	mg/kg (ppm)	1	< 0.5	57	57	10-176	0
Trichlorofluoromethane	mg/kg (ppm)	1	< 0.5	49	48	10-176	2
Acetone	mg/kg (ppm)	5	<5	89	85	10-163	5
1,1-Dichloroethene	mg/kg (ppm)	1	< 0.05	56	53	10-160	6
Hexane Mathalana abhaida	mg/kg (ppm)	1	<0.25	58	52 62	10-137	$ \frac{11}{9} $
Methylene chloride Methyl t-butyl ether (MTBE)	mg/kg (ppm) mg/kg (ppm)	1 1	<0.5 <0.05	68 78	62 74	10-156 21-145	5
trans-1,2-Dichloroethene	mg/kg (ppm)	1	<0.05	65	63	14-137	3
1,1-Dichloroethane	mg/kg (ppm)	1	<0.05	65 71	67	19-140	6
2,2-Dichloropropane	mg/kg (ppm)	1	<0.05	64	60	10-158	6
cis-1.2-Dichloroethene	mg/kg (ppm)	1	<0.05	71	69	25-135	3
Chloroform	mg/kg (ppm)	1	0.24	55 b	52 b	21-145	6 b
2-Butanone (MEK)	mg/kg (ppm)	5	<1	85	79	19-147	7
1.2-Dichloroethane (EDC)	mg/kg (ppm)	1	< 0.05	75	71	12-160	5
1,1,1-Trichloroethane	mg/kg (ppm)	1	< 0.05	65	64	10-156	2
1,1-Dichloropropene	mg/kg (ppm)	1	< 0.05	71	68	17-140	4
Carbon tetrachloride	mg/kg (ppm)	1	< 0.05	57	57	9-164	0
Benzene	mg/kg (ppm)	1	< 0.03	72	67	29-129	7
Trichloroethene	mg/kg (ppm)	1	< 0.02	72	70	21-139	3
1,2-Dichloropropane	mg/kg (ppm)	1	< 0.05	78	75	30-135	4
Bromodichloromethane	mg/kg (ppm)	1	< 0.05	67	65	23 - 155	3
Dibromomethane	mg/kg (ppm)	1	< 0.05	75	71	23 - 145	5
4-Methyl-2-pentanone	mg/kg (ppm)	5	<1	84	78	24 - 155	7
cis-1,3-Dichloropropene	mg/kg (ppm)	1	< 0.05	71	68	28-144	4
Toluene	mg/kg (ppm)	1	< 0.05	87	82	35-130	6
trans-1,3-Dichloropropene	mg/kg (ppm)	1	< 0.05	79	75	26-149	5
1,1,2-Trichloroethane	mg/kg (ppm)	1	< 0.05	91	83	10-205	9
2-Hexanone	mg/kg (ppm)	5	<0.5	103	96	15-166	7
1,3-Dichloropropane Tetrachloroethene	mg/kg (ppm)	1	<0.05 <0.025	92 85	85 81	31-137 20-133	8 5
Dibromochloromethane	mg/kg (ppm) mg/kg (ppm)	1	<0.025	69	67	28-150	3
1,2-Dibromoethane (EDB)	mg/kg (ppm)	1	<0.05	89 87	83	28-150	5
Chlorobenzene	mg/kg (ppm)	1	<0.05	87	81	32-129	5
Ethylbenzene	mg/kg (ppm)	1	<0.05	87	83	32-125	5
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	1	< 0.05	68	67	31-143	1
m,p-Xylene	mg/kg (ppm)	2	<0.1	88	84	34-136	5
o-Xylene	mg/kg (ppm)	1	< 0.05	86	80	33-134	7
Styrene	mg/kg (ppm)	1	< 0.05	89	83	35-137	7
Isopropylbenzene	mg/kg (ppm)	1	< 0.05	88	84	31-142	5
Bromoform	mg/kg (ppm)	1	< 0.05	64	62	$21 \cdot 156$	3
n-Propylbenzene	mg/kg (ppm)	1	< 0.05	97	92	23-146	5
Bromobenzene	mg/kg (ppm)	1	< 0.05	93	89	34-130	4
1,3,5-Trimethylbenzene	mg/kg (ppm)	1	< 0.05	96	93	18-149	3
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	1	< 0.05	95	89	28-140	7
1,2,3 Trichloropropane	mg/kg (ppm)	1	< 0.05	94	90	25-144	4
2-Chlorotoluene	mg/kg (ppm)	1	< 0.05	94	90	31-134	4
4-Chlorotoluene	mg/kg (ppm)	1	< 0.05	95	92	31-136	3
tert-Butylbenzene	mg/kg (ppm)	1	<0.05	97	94	30-137	3
1,2,4-Trimethylbenzene	mg/kg (ppm)	1	<0.05	95	92 94	10-182 23-145	3 1
sec-Butylbenzene p-Isopropyltoluene	mg/kg (ppm) mg/kg (ppm)	1	<0.05 <0.05	95 95	94 92	23-145 21-149	1 3
1,3-Dichlorobenzene		1	<0.05	93	92 90	30-131	3
1.4-Dichlorobenzene	mg/kg (ppm) mg/kg (ppm)	1	<0.05	93	90 88	29-129	6
1,4-Dichlorobenzene	mg/kg (ppm) mg/kg (ppm)	1	<0.05	93 95	88 90	31-132	5
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	1	<0.05	55 75	50 70	11-161	7
1,2.4-Trichlorobenzene	mg/kg (ppm)	1	<0.5	92	90	22-142	2
Hexachlorobutadiene	mg/kg (ppm)	1	<0.25	89	88	10-142	1
Naphthalene	mg/kg (ppm)	1	<0.25	94	92	14-157	2
1,2,3-Trichlorobenzene	mg/kg (ppm)	1	<0.25	93	89	20-144	4
	C Sur /						

ENVIRONMENTAL CHEMISTS

Date of Report: 04/15/22 Date Received: 04/07/22 Project: Site 5 Kenyon Street Vacant Lot 2021-552-11, F&BI 204093

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: Laboratory Control Sample

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Dichlorodifluoromethane	mg/kg (ppm)	1	38	41	10-146	8
Chloromethane	mg/kg (ppm)	1	57	65	27-133	13
Vinyl chloride	mg/kg (ppm)	1	70	78	22-139	11
Bromomethane	mg/kg (ppm)	1	78	67	38-114	15
Chloroethane	mg/kg (ppm)	1	69	74	9-163	7
Trichlorofluoromethane	mg/kg (ppm)	1	69 90	76 98	10-196	10
Acetone 1.1-Dichloroethene	mg/kg (ppm)	$\frac{5}{1}$	90 66	98 73	52-141 47-128	9 10
Hexane	mg/kg (ppm) mg/kg (ppm)	1	82	86	47-128 43-142	10 5
Methylene chloride	mg/kg (ppm) mg/kg (ppm)	1	82 65	86 71	43-142 10-184	э 9
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	1	76	87	60-123	13
trans-1,2-Dichloroethene	mg/kg (ppm)	1	72	79	67-129	9
1,1-Dichloroethane	mg/kg (ppm)	1	72	81	68-115	12
2.2-Dichloropropane	mg/kg (ppm)	1	84	92	52-170	9
cis-1,2-Dichloroethene	mg/kg (ppm)	1	72	81	72-127	12
Chloroform	mg/kg (ppm)	1	68	78	66-120	14
2-Butanone (MEK)	mg/kg (ppm)	5	82	95	30-197	15
1,2-Dichloroethane (EDC)	mg/kg (ppm)	1	73	82	56-135	12
1,1,1-Trichloroethane	mg/kg (ppm)	1	75	80	62-131	6
1,1-Dichloropropene	mg/kg (ppm)	1	76	83	69-128	9
Carbon tetrachloride	mg/kg (ppm)	1	76	83	60-139	9
Benzene	mg/kg (ppm)	1	71	79	71-118	11
Trichloroethene	mg/kg (ppm)	1	72	78	63-121	8
1,2-Dichloropropane	mg/kg (ppm)	1	76	85	72-127	11
Bromodichloromethane	mg/kg (ppm)	1	75	84	57 - 126	11
Dibromomethane	mg/kg (ppm)	1	73	85	62-123	15
4-Methyl-2-pentanone	mg/kg (ppm)	5	82	93	45-145	13
cis-1,3-Dichloropropene	mg/kg (ppm)	1	76	83	67-122	9
Toluene	mg/kg (ppm)	1	85	93	66-126	9
trans-1,3-Dichloropropene	mg/kg (ppm)	1	88	96	72-132	9
1,1,2-Trichloroethane	mg/kg (ppm)	1 5	86 101	97 111	64-115	12 9
2-Hexanone 1,3-Dichloropropane	mg/kg (ppm)	э 1	89	98	33-152 72-130	9 10
Tetrachloroethene	mg/kg (ppm) mg/kg (ppm)	1	89 87	98 95	72-130	10
Dibromochloromethane	mg/kg (ppm)	1	85	91	55-121	5 7
1,2-Dibromoethane (EDB)	mg/kg (ppm)	1	91	98	74-132	7
Chlorobenzene	mg/kg (ppm)	1	85	94	76-111	10
Ethylbenzene	mg/kg (ppm)	1	86	94	64-123	9
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	1	84	89	64-121	6
m,p-Xylene	mg/kg (ppm)	2	87	94	78-122	8
o-Xylene	mg/kg (ppm)	1	84	95	77-124	12
Styrene	mg/kg (ppm)	1	83	95	74-126	13
Isopropylbenzene	mg/kg (ppm)	1	86	96	76-127	11
Bromoform	mg/kg (ppm)	1	84	89	56 - 132	6
n-Propylbenzene	mg/kg (ppm)	1	90	104	74-124	14
Bromobenzene	mg/kg (ppm)	1	87	100	72-122	14
1,3,5-Trimethylbenzene	mg/kg (ppm)	1	90	103	76-126	13
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	1	92	104	56 - 143	12
1,2,3-Trichloropropane	mg/kg (ppm)	1	88	101	61-137	14
2-Chlorotoluene	mg/kg (ppm)	1	89	101	74-121	13
4-Chlorotoluene	mg/kg (ppm)	1	89	101	75-122	13
tert-Butylbenzene	mg/kg (ppm)	1	90	103	73-130	13
1,2,4-Trimethylbenzene	mg/kg (ppm)	1 1	87	102	76-125	16
sec-Butylbenzene p-Isopropyltoluene	mg/kg (ppm) mg/kg (ppm)	1	89 89	102 103	71-130 70-132	14 15
1.3-Dichlorobenzene	mg/kg (ppm)	1	89 87	100	75-121	15
1,4-Dichlorobenzene	mg/kg (ppm) mg/kg (ppm)	1	87 85	99	75-121 74-117	14 15
1,4-Dichlorobenzene	mg/kg (ppm) mg/kg (ppm)	1	89 86	99 101	74-117 76-121	15 16
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	1	89	98	58-138	10
1,2,4-Trichlorobenzene	mg/kg (ppm)	1	84	99	64-135	16
	mg/kg (ppm)	1	88	95 95	50-153	8
Hexachlorobutadiene						
Hexachlorobutadiene Naphthalene	mg/kg (ppm)	1	85	102	63-140	18

ENVIRONMENTAL CHEMISTS

Date of Report: 04/15/22 Date Received: 04/07/22 Project: Site 5 Kenyon Street Vacant Lot 2021-552-11, F&BI 204093

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 204055-01 (Matrix Spike)

Laboratory Code. 204055-01 (Ma	1 /			Percent	
	Reporting	Spike	Sample	Recovery	Acceptance
Analyte	Units	Level	Result	MS	Criteria
Dichlorodifluoromethane	ug/L (ppb)	10	<1	120	50-150
Chloromethane	ug/L (ppb)	10	<10	97	50-150
Vinyl chloride	ug/L (ppb)	10	< 0.02	100	16-176
Bromomethane	ug/L (ppb)	10	<5	112	10-193
Chloroethane	ug/L (ppb)	10	<1	103	50-150
Trichlorofluoromethane Acetone	ug/L (ppb) ug/L (ppb)	10 50	<1 <50	98 89	50-150 15-179
1,1-Dichloroethene	ug/L (ppb) ug/L (ppb)	10	<1	100	10-179 50-150
Hexane	ug/L (ppb) ug/L (ppb)	10	<5	99	49-161
Methylene chloride	ug/L (ppb)	10	<5 <5	114	40-143
Methyl t-butyl ether (MTBE)	ug/L (ppb)	10	<1	99	50-150
trans-1,2-Dichloroethene	ug/L (ppb)	10	<1	98	50-150
1,1-Dichloroethane	ug/L (ppb)	10	<1	96	50-150
2,2-Dichloropropane	ug/L (ppb)	10	<1	95	10-335
cis-1,2-Dichloroethene	ug/L (ppb)	10	<1	95	50-150
Chloroform	ug/L (ppb)	10	<1	99	50-150
2-Butanone (MEK)	ug/L (ppb)	50	<20	98	34-168
1,2-Dichloroethane (EDC)	ug/L (ppb)	10	< 0.2	94	50-150
1,1,1-Trichloroethane	ug/L (ppb)	10	<1	98	50-150
1,1-Dichloropropene	ug/L (ppb)	10	<1	100	50-150
Carbon tetrachloride	ug/L (ppb)	10	< 0.5	97	50-150
Benzene	ug/L (ppb)	10	< 0.35	98	50-150
Trichloroethene	ug/L (ppb)	10 10	< 0.5	98 93	43-133
1,2-Dichloropropane Bromodichloromethane	ug/L (ppb) ug/L (ppb)	10	<1 <0.5	93 95	50-150 50-150
Dibromomethane	ug/L (ppb) ug/L (ppb)	10	<0.5	94	50-150
4-Methyl-2-pentanone	ug/L (ppb)	50	<10	99	50-150
cis-1,3-Dichloropropene	ug/L (ppb)	10	<0.4	95	48-145
Toluene	ug/L (ppb)	10	<1	96	50-150
trans-1,3-Dichloropropene	ug/L (ppb)	10	< 0.4	93	37-152
1,1,2-Trichloroethane	ug/L (ppb)	10	< 0.5	99	50-150
2-Hexanone	ug/L (ppb)	50	<10	102	50-150
1,3-Dichloropropane	ug/L (ppb)	10	<1	94	50-150
Tetrachloroethene	ug/L (ppb)	10	<1	98	50-150
Dibromochloromethane	ug/L (ppb)	10	< 0.5	95	33-164
1,2-Dibromoethane (EDB)	ug/L (ppb)	10	<1	98	50-150
Chlorobenzene	ug/L (ppb)	10	<1	102	50-150
Ethylbenzene	ug/L (ppb)	10	<1	101	50-150
1,1,1,2-Tetrachloroethane	ug/L (ppb)	10 20	<1 <2	103	50-150
m,p-Xylene	ug/L (ppb)	20 10	<2 <1	101 100	50-150 50-150
o-Xylene Styrene	ug/L (ppb) ug/L (ppb)	10	<1	100	50-150 50-150
Isopropylbenzene	ug/L (ppb) ug/L (ppb)	10	<1	103	50-150
Bromoform	ug/L (ppb)	10	<5	94	23-161
n-Propylbenzene	ug/L (ppb)	10	<1	99	50-150
Bromobenzene	ug/L (ppb)	10	<1	97	50-150
1,3,5-Trimethylbenzene	ug/L (ppb)	10	<1	100	50-150
1,1,2,2-Tetrachloroethane	ug/L (ppb)	10	< 0.2	93	10-235
1,2,3-Trichloropropane	ug/L (ppb)	10	<1	96	33-151
2-Chlorotoluene	ug/L (ppb)	10	<1	99	50-150
4-Chlorotoluene	ug/L (ppb)	10	<1	99	50-150
tert-Butylbenzene	ug/L (ppb)	10	<1	97	50-150
1,2,4-Trimethylbenzene	ug/L (ppb)	10	<1	101	50-150
sec-Butylbenzene	ug/L (ppb)	10	<1	99	46-139
p-Isopropyltoluene	ug/L (ppb)	10	<1	102	46-140
1,3-Dichlorobenzene 1,4-Dichlorobenzene	ug/L (ppb)	10 10	<1 <1	97 99	50-150 50-150
1,4-Dichlorobenzene 1,2-Dichlorobenzene	ug/L (ppb) ug/L (ppb)	10	<1	99 98	50-150 50-150
1,2-Dibromo-3-chloropropane	ug/L (ppb) ug/L (ppb)	10	<10	98 89	50-150
1,2-Dibronio-5-chloropropane 1,2,4-Trichlorobenzene	ug/L (ppb) ug/L (ppb)	10	<10	89 98	50-150
Hexachlorobutadiene	ug/L (ppb) ug/L (ppb)	10	<0.5	96	42-150
Naphthalene	ug/L (ppb)	10	<1	100	50-150
1,2,3-Trichlorobenzene	ug/L (ppb)	10	<1	98	44-155
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ENVIRONMENTAL CHEMISTS

Date of Report: 04/15/22 Date Received: 04/07/22 Project: Site 5 Kenyon Street Vacant Lot 2021-552-11, F&BI 204093

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: Laboratory Control Sample

		~ .	Percent	Percent		D ==
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Dichlorodifluoromethane	ug/L (ppb)	10	102	107	70-130	5
Chloromethane	ug/L (ppb)	10	92	98	70-130	6
Vinyl chloride	ug/L (ppb)	10	99	103	70-130	4
Bromomethane	ug/L (ppb)	10	105	107	28-182	2
Chloroethane	ug/L (ppb)	10	95	107	70-130	12
Trichlorofluoromethane	ug/L (ppb)	10	87	97	70-130	11
Acetone	ug/L (ppb)	50	84	96	42-155	13
1,1-Dichloroethene	ug/L (ppb)	10	91	100	70-130	9
Hexane Mathematical	ug/L (ppb)	10 10	87 82	94 89	50-161 29-192	8 8
Methylene chloride Methyl t-butyl ether (MTBE)	ug/L (ppb) ug/L (ppb)	10	82 86	89 94	29-192 70-130	8
trans-1.2-Dichloroethene	ug/L (ppb) ug/L (ppb)	10	87	94 94	70-130	9 8
1,1-Dichloroethane	ug/L (ppb)	10	86	94 93	70-130	8
2,2-Dichloropropane	ug/L (ppb) ug/L (ppb)	10	85	93 88	70-130	3
cis-1,2-Dichloroethene	ug/L (ppb) ug/L (ppb)	10	86	92	70-130	3 7
Chloroform	ug/L (ppb) ug/L (ppb)	10	86 87	92 96	70-130	10
2-Butanone (MEK)	ug/L (ppb)	10 50	90	100	50-157	10
1,2-Dichloroethane (EDC)	ug/L (ppb) ug/L (ppb)	10	90 86	94	70-130	9
1,1,1-Trichloroethane	ug/L (ppb)	10	87	94 95	70-130	9
1,1-Dichloropropene	ug/L (ppb)	10	90	95 98	70-130	9
Carbon tetrachloride	ug/L (ppb)	10	90 84	98 94	70-130	9 11
Benzene	ug/L (ppb)	10	84 89	94 95	70-130	7
Trichloroethene	ug/L (ppb)	10	88	91	70-130	3
1,2-Dichloropropane	ug/L (ppb)	10	85	91 91	70-130	3 7
Bromodichloromethane	ug/L (ppb)	10	86	91 90	70-130	5
Dibromomethane	ug/L (ppb)	10	87	92	70-130	6
4-Methyl-2-pentanone	ug/L (ppb)	50	86	91	70-130	6
cis-1,3-Dichloropropene	ug/L (ppb)	10	84	86	70-130	2
Toluene	ug/L (ppb)	10	86	94	70-130	9
trans-1,3-Dichloropropene	ug/L (ppb)	10	86	92	70-130	5 7
1,1,2-Trichloroethane	ug/L (ppb)	10	87	96	70-130	10
2-Hexanone	ug/L (ppb)	50	95	105	69-130	10
1.3-Dichloropropane	ug/L (ppb)	10	88	96	70-130	9
Tetrachloroethene	ug/L (ppb)	10	86	95	70-130	10
Dibromochloromethane	ug/L (ppb)	10	85	90	63-142	6
1,2-Dibromoethane (EDB)	ug/L (ppb)	10	85	95	70-130	11
Chlorobenzene	ug/L (ppb)	10	87	98	70-130	12
Ethylbenzene	ug/L (ppb)	10	88	98	70-130	11
1,1,1,2-Tetrachloroethane	ug/L (ppb)	10	85	96	70-130	12
m,p-Xylene	ug/L (ppb)	20	88	98	70-130	11
o-Xylene	ug/L (ppb)	10	87	96	70-130	10
Styrene	ug/L (ppb)	10	88	98	70-130	10
Isopropylbenzene	ug/L (ppb)	10	89	98	70-130	10
Bromoform	ug/L (ppb)	10	80	90	50-157	12
n-Propylbenzene	ug/L (ppb)	10	85	97	70-130	13
Bromobenzene	ug/L (ppb)	10	84	95	70-130	12
1,3,5-Trimethylbenzene	ug/L (ppb)	10	86	96	52-150	11
1,1,2,2-Tetrachloroethane	ug/L (ppb)	10	83	94	70-130	12
1,2,3-Trichloropropane	ug/L (ppb)	10	84	96	70-130	13
2-Chlorotoluene	ug/L (ppb)	10	85	98	70-130	14
4-Chlorotoluene	ug/L (ppb)	10	86	95	70-130	10
tert-Butylbenzene	ug/L (ppb)	10	84	95	70-130	12
1,2,4-Trimethylbenzene	ug/L (ppb)	10	87	98	70-130	12
sec-Butylbenzene	ug/L (ppb)	10	85	96	70-130	12
p-Isopropyltoluene	ug/L (ppb)	10	86	98	70-130	13
1,3-Dichlorobenzene	ug/L (ppb)	10	85	96	70-130	12
1.4-Dichlorobenzene	ug/L (ppb)	10	84	94	70-130	11
1,2-Dichlorobenzene	ug/L (ppb)	10	84	96	70-130	13
1,2-Dibromo-3-chloropropane	ug/L (ppb)	10	87	95	70-130	9
1,2,4-Trichlorobenzene	ug/L (ppb)	10	82	92	70-130	11
Hexachlorobutadiene	ug/L (ppb)	10	80	91	70-130	13
Naphthalene	ug/L (ppb)	10	85	95	70-130	11

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht – The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

 ${\rm J}$ - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

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			Ph. (206) 285-8282						TP7-12.5	TPS	Sample ID		Phone	Uity, state, AIP		Address	Company R	Report To KYC	
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Inlus (2 2 1	in in the	aylor L	SIGNATURE					4-6-22	4-6-22	Date Sampled	-							204093
			Jones						1350	1400	Time Sampled		Project sp		REMARKS	t 1/1	PROJECT NAME		SAMPLE
Tohne	6	5		P					Soil 5	Water	Sample # Type J		Project specific RLs? -		SO .	Sund Street Vecant Lot	¶ NAME	(aumugis) curact travec	CHAIN O
6	Sic Lucy	ic Lum	aycob D	PRINT NAME			w		2	\times	NWTPH-Dx NWTPH-Gx		Yes / No			eccunt Lot		(a.	CUSTO
In vitre 1	\ \ \	>	avles							X	BTEX EPA 8021 NWTPH-HCID VOCs EPA 8260 PAHs EPA 8270	ANALYSE	·	REF	INVOICE TO	2021-552-11	PO#		DY 04.07.22
Ftz	PGE	PGA	RGI	COMPANY	Samples						PCBs EPA 8082	ANALYSES REQUESTED			TO				7.22
4/7/22	E		7/H	Z DATE	received at .						7.	Ð	Default: Dispose after 30 days	P.A.	-SAMPLE DISPOSAL	Rush charges authorized by:	Standard turnaround RUSH	TURNAROUND TIME	Eoclus
4/7/22/14/30	2:30	هر :ا	1330	TIME	2°C						Notes ,		er 30 days		OSAL	zed by:	nd	TIME	Eor/V/1/AFT/ Bos

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