



3540 SE 28th Avenue . Portland, Oregon 97202

Office 503.234.2118
Toll Free 877.234.2118
Fax 503.331.7133

www.soilsolutionsenvironmental.com

**UST Decommission Report
6605 SW Canyon Lane
Portland, Oregon 97225**

Prepared for:

Mike and Joyce Larkins
6605 SW Canyon Lane
Portland, Oregon 97225

February 4, 2019
Updated September 13, 2023

Prepared by:

Soil Solutions Environmental Services, Inc.
3540 SE 28th Avenue
Portland, Oregon 97225

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1.0 INTRODUCTION

This report summarizes the activities conducted by Soil Solutions Environmental Services, Inc. (SSES) at 6605 SW Canyon Lane in Portland, Oregon (site). Site activities included decommissioning in place of one 500-gallon underground storage tank (UST) and soil sampling and analysis. This report describes our activities, summarizes the results of the work and recommends closure of the site based on findings. Per Oregon Department of Environmental Quality (DEQ) this UST is unregulated because it is a residential UST less than 1,100 gallons in capacity.

The UST was discovered during the decommission of an underground heating oil tank also located at the site. Heating oil tank activities are reported under separate cover and tracked under DEQ LUST file 34-18-1107.

The site is a single-family residential property. As of the date of this revised report, there are no known plans to redevelop the property, although according to the former owner of the site the property is zoned such that any new development must be multi-family dwellings.

2.0 SITE DESCRIPTION

As shown on the Vicinity Map, Figure 1, the site is located in a residential area of southwest Portland, Oregon in Washington County. The site is a residential property located north of SW Canyon Lane. The UST was located south of the garage within the driveway as indicated in Figure 2. The UST measured 6-feet long by 3.8-feet in diameter. The top of the UST was buried at approximately 1.5-feet bgs. Drinking water is supplied by the City of Portland.

According to the United States Geological Survey Topographic 7.5 minute map for Portland, Oregon the site lies at an elevation of approximately 630-feet above mean seal level. It is located at township 1S range 1W section 1 of the Willamette Meridian. Ma et al (2012) maps the site as basalt and basaltic-andesite lava of the Pliocene/Pleistocene aged Boring Volcanic Field. Snyder (2008) indicates groundwater in the vicinity is typically 60-feet below ground surface (bgs) and generally flows to the south, towards Fanno Creek.

The nearest surface water body to the site is Fanno Creek, which flows in a southwest direction located southeast and south of the site. The nearest distance from the site to Fanno Creek is approximately 0.25-miles southeast.

3.0 FIELD ACTIVITIES

Field activities were completed between October 17, 2018 and January 4, 2019. Photographs of field activities are included in Appendix A. Boring locations are shown on Figure 2. Depths are measured from ground surface at the UST. All equipment was decontaminated between boring locations. New nitrile gloves were donned by the sampler prior to each sample collected. Groundwater samples were collected using disposable Teflon tubing and a peristaltic pump and/or

a bailer. Soil and groundwater samples collected during field activities were placed in laboratory-supplied clean glass jars or bottles, labeled and placed in a cooler with ice. Following sample collection each boring location was backfilled with bentonite chips to ground surface. All disposal receipts are included in Appendix C.

3.1 UST Decommissioning and Site Assessment Activities

On October 17, 2018, SSES collected one grab sample (SG1@1) located near the fill port of the UST at a depth of 1-foot bgs. The sample appeared to be slightly stained. Laboratory analysis revealed gasoline and heavy oil were detected. SSES also completed two borings, designated 2 and 3, on either end of the UST. Borings were completed to a depth of 6.5-feet or approximately 1.5-feet below the bottom of the UST. Soil samples were collected from each of the borings. Laboratory analysis revealed gasoline, diesel, and heavy oil were not detected in either soil sample. The owner was notified of the results and a release was reported to the Oregon Department of Environmental Quality (DEQ) on October 18, 2018.

On December 18, 2018 SSES collected sample SG4@1 adjacent to sample SG1@1 for additional analysis and for waste disposal characterization.

SSES removed the concrete located above the UST and dug to the top of the UST. The overburden soil was placed on plastic sheeting for disposal. SSES personnel inerted the UST and cut it open. The UST was found to contain about 250 gallons of fuel and water. The UST contents were removed and the UST was thoroughly pressure washed with approximately 20 gallons of rinsate. No holes were observed on the UST bottom. The UST contents and rinsate were transported for recycling, in bulk, by Oil Re-Refining Company (ORRCO).

On December 27, 2018 SSES completed five borings, designated 5 through 9. Borings 5 through 8, located south, west, north, and east of the UST area. Soil samples were collected at 4.5 to 6.5-feet, and at 0.5 to 2.5-feet in boring 8, located between the UST and the pump. Boring 9 was placed under the pump and a soil sample was collected at 1 to 3-feet.

On January 4, 2019 SSES removed remaining stained soil located on top of the UST and some soil located around the sides of the UST by hand. The excavation was irregular in shape but measured approximately 3-feet by 4-feet and was completed to a depth of 1.5-feet. The total volume of soil removed was approximately 0.81-tons. Removed soil, along with the previously removed overburden soil was transported to Hillsboro Landfill for disposal. Three soil grab samples, SG10, SG11, and SG12 were collected following soil removal from the edges of the removal area.

The UST area was filled in place with gravel and the driveway was restored to grade with a concrete patch on January 15, 2019.

Groundwater was not encountered during field activities.

4.0 ANALYTICAL RESULTS

Samples were transported under chain of custody documentation to Friedman & Bruya, Inc. laboratory in Seattle, Washington. Laboratory analysis included Northwest Total Petroleum Hydrocarbons identification method (NWTPH-HCID), gasoline by NWTPH-Gx, diesel and residual range oil by NWTPH-Dx, benzene, toluene, ethylbenzene, and xylenes (BTEX) by United States Environmental Protection Agency (EPA) Method 8021B. Laboratory results are presented in Table 1 and chains-of-custody are included in Appendix B. Select analytical results are shown on Figure 2.

Thirteen soil samples were collected and analyzed. Petroleum hydrocarbons were not detected above method reporting limits in any of the soil samples with the exception of SG1@1 and SG4@4. Gasoline and residual range petroleum hydrocarbons were detected by NWTPH-HCID in Sample SG1@1. SG4@4 was collected adjacent to sample SG1@1. Gasoline was detected at 7.4 ppm, diesel was detected at 80 ppm, and heavy oil was detected at 790 ppm. BTEX were not detected above method reporting limits.

5.0 RISK BASED CORRECTIVE ACTION EVALUATION

Since petroleum hydrocarbons were detected in soil above the Level 2 cleanup standard, SSES conducted an Oregon DEQ Risk Based Corrective Action (RBCA) evaluation for the site. All the contaminated soil has been removed from the site and groundwater was not encountered.

5.1 Source

A release from an underground storage tank system located near the fill port resulted in a small amount of petroleum hydrocarbon contaminated soil. The potential contaminants of concern include gasoline, diesel, BTEX and PAHs.

5.2 Ecological Receptors

The contaminated soil at the site was originally present above the UST at a maximum depth of 1.5-feet bgs. The contaminated soil was removed from the site, groundwater was not encountered and is not expected to be present until approximately 60-feet bgs. Based on this information, contaminated groundwater is not present at the site and is therefore not reasonably likely to discharge to, or otherwise impact surface water or aquatic sediments. Therefore, ecological receptors do not appear to be impacted by the site and are not further considered in the conceptual site model.

5.3 Conceptual Site Model

SSES developed a Conceptual Site Model (CSM) for the site. The complete CSM is included in Table 1 and includes site-specific information supporting the inclusion or exclusions of all pathways and receptor scenarios.

5.4 Generic Cleanup Levels

Based on the CSM, risk based concentrations (RBCs) were selected for the site. The RBCs selected are tabulated below.

Contaminated Medium	Exposure Pathway	Receptor Scenario	RBC
Soil	Soil Ingestion, Dermal Contact, and Inhalation	Residential	RBC _{ss}
		Excavation Worker	RBC _{ss}
	Volatilization to Outdoor Air	Residential	RBC _{so}
	Leaching to Groundwater	Residential	RBC _{sw}
Soil Gas	Vapor Intrusion into Buildings	Residential	RBC _{sv}

The analytical results from soil are compared to the applicable generic RBCs in Table 2. The receptor scenarios selected at the most conservative possible and would remain protective of the site should it be redeveloped to multi-family residential in the future.

6.0 DISCUSSION AND CONCLUSIONS

A 500-gallon underground storage tank at 6605 SW Canyon Lane in Portland, Oregon was decommissioned in place.

A total of thirteen soil samples were collected from around the UST and under the pump. Petroleum hydrocarbons were only detected near the fill port of the UST and appear related to one or more spills that occurred while filling the UST. The analytical results indicate all contaminated soil has been removed from the UST area.

An RBCA evaluation for the site was completed and a CSM was developed. Measured concentrations were compared to the applicable RBCs. Five potentially complete exposure pathways were identified for the project site in soil and soil gas. As shown in Table 1 there are no remaining complete pathways. The following tables show the measured concentrations of contaminants of concern compared to applicable RBCs:

- As listed in Table 2, concentrations of contaminants of concern remaining in soil did not exceed any applicable RBCs.

6.0 RECOMMENDATION

SSES has completed the decommissioning in place of an unregulated tank, soil sampling and analysis indicates that all contaminated soil has been removed from the UST area. SSES requests a finding of No Further Action and file closure for the above referenced site, DEQ file #34-18-1201.

7.0 LIMITATIONS

This report was prepared by Soil Solutions Environmental Services for property owner Mike and Joyce Larkins and summarizes the results of our work at 6605 SW Canyon Lane, Portland, Oregon. We have performed our services in accordance with our agreement and understanding with the client. The scope of work was limited to the specific project, location, and activities described herein. The material in it reflects our best judgment in light of the information available at the time of preparation.

This report may not be used or relied upon by any other party without the written consent of Soil Solutions Environmental Services. Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. Soil Solutions Environmental Services is not responsible for the independent conclusions, opinions or recommendations made by others based on this report and accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report. The scope of services performed in execution of this evaluation may not be appropriate to satisfy the needs of other users, and use or re-use of this document or the findings, conclusions, or recommendations is at the risk of said user.

Soil Solutions Environmental Services performed this work in accordance with generally accepted professional practices related to the nature of the work accomplished, in the same or similar localities, at the time the services were performed. The conclusions presented in this report are, in part, based upon subsurface sampling performed at selected locations and depths. There may be conditions between sample points or samples that differ significantly from those presented in this report and which cannot be predicted by this study. For these types of evaluations, it is often necessary to use information prepared by others and Soil Solutions Environmental Services cannot be responsible for the accuracy of such information. Additionally, the passage of time may result in a change in the environmental characteristics at this site and surrounding properties.

This report does not warrant against future operations or conditions, nor does this warrant operations or conditions present of a type or at a location not investigated. This report is not a regulatory compliance audit and is not intended to satisfy the requirements of any state, federal, or local real estate transfer laws.

8.0 REFERENCES

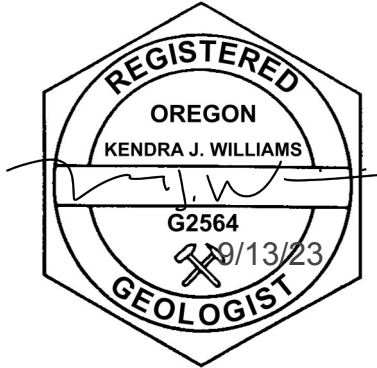
- Lina Ma, Ian P. Madin, Serin Duplantis, and Kendra J. Williams, 2012, Lidar-Based Surficial Geologic Map and Database of the Greater Portland Area, Clackamas, Columbia, Marion, Multnomah, Washington, and Yamhill Counties, Oregon, and Clark County, Washington, Oregon Department of Geology and Mineral Industries, Open File Report O-12-02.
- Daniel T. Snyder, 2008, Estimated Depth to Ground Water and Configuration of the Water Table in the Portland, Oregon Area, U.S. Geological Survey, Scientific Investigations Report 2008-5059.

Underground Storage Tank Closure Report
6605 SW Canyon Lane
Portland, Oregon 97225
DEQ File #34-18-1201

9.0 SIGNATURE AND STAMP

SOIL SOLUTIONS ENVIRONMENTAL SERVICES, INC

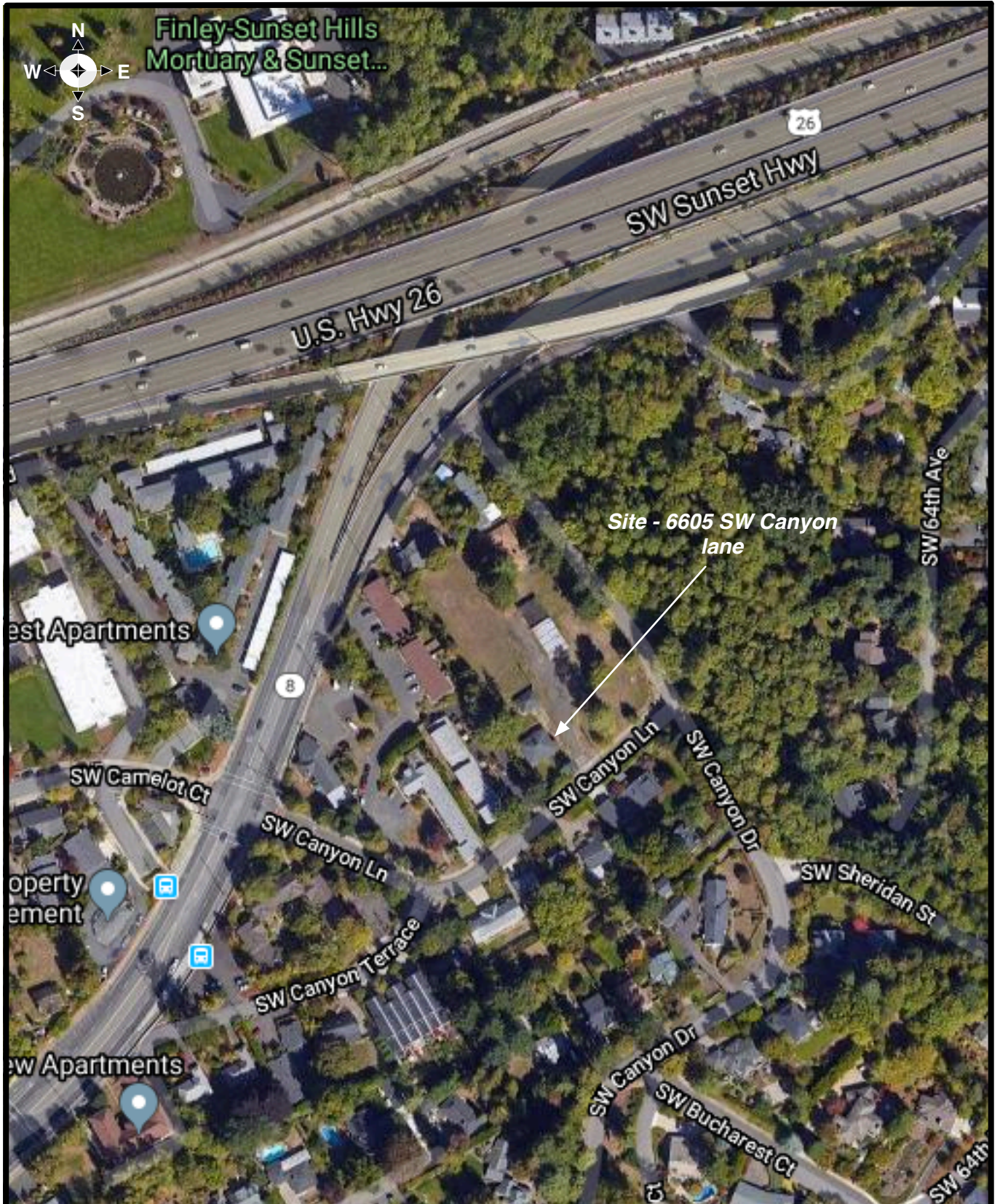
Report prepared by:



Expires 6/1/2024

Kendra J. Williams

FIGURES



Imagery ©2020 Maxar Technologies, Metro, Portland Oregon, State of Oregon, U.S. Geological Survey, USDA Farm Service Agency, Map data ©2020



Figure 1: Vicinity Map
 6605 SW Canyon Lane
 Portland, Oregon 97225
 DEQ File #34-18-1201

PROJECT: Gasoline UST

DATE: 2/4/19

APPROXIMATE SCALE: 1" = 200'

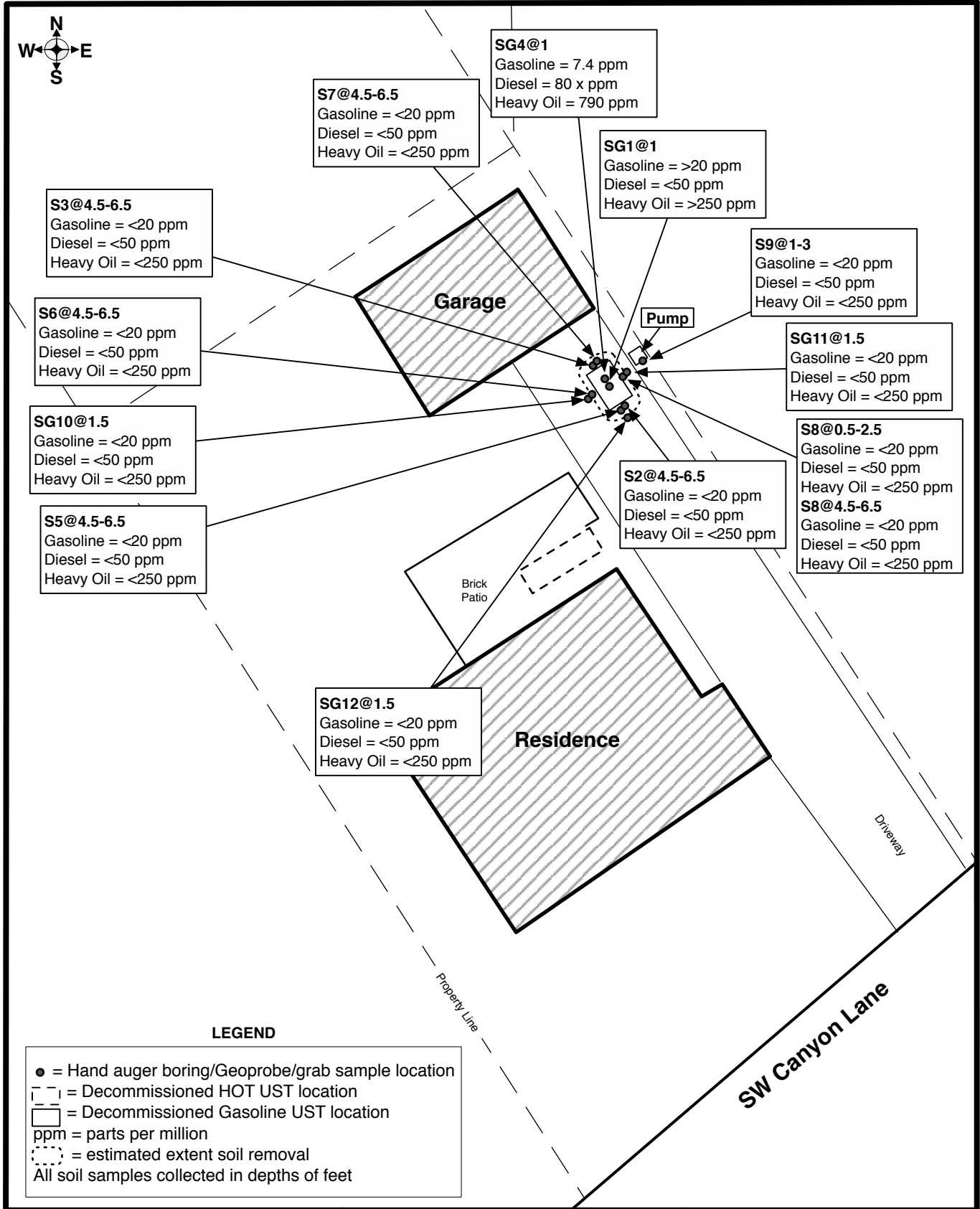


Figure 2: Site Map
6605 SW Canyon Lane
Portland, Oregon 97225
DEQ File #34-18-1201

PROJECT: Gasoline UST

DATE: 2/4/19

APPROXIMATE SCALE: 1" = 20'

TABLES

Table 1
Conceptual Site Model

Contaminated Medium	Exposure Pathway	Receptor Scenario	Was Pathway Selected?	Reason for Selection or Exclusion	
Soil	Soil Ingestion, Dermal Contact, and Inhalation (RBC _{ss})	Residential	Yes	Impacted soils were present within the top 3-feet bgs	
		Urban Residential	No	The more stringent residential receptor scenario was selected	
		Occupational	No	Occupational receptors are not present at the site	
		Construction Worker	No	Construction Workers are assumed to be in contact with soil for up to 250 days, unlikely for residential properties	
		Excavation Worker	Yes	Excavation Workers are assumed to be in contact with soil for up to 9 days, possible for residential properties	
	Volatilization to Outdoor Air (RBC _{so})	Residential	Yes	Residential receptors are present at the site	
		Urban Residential	No	The more stringent residential receptor scenario was selected	
		Occupational	No	Occupational receptors are not present at the site	
	Leaching to Groundwater (RBC _{sw})	Residential	Yes	There may be beneficial uses of the groundwater at the site	
		Urban Residential	No	The more stringent residential receptor scenario was selected	
		Occupational	No	Occupational receptors are not present at the site	
	Groundwater	Ingestion & Inhalation from Tapwater (RBC _{t_w})	Residential	No	Groundwater was not present at the site
Urban Residential			No	Groundwater was not present at the site	
Occupational			No	Groundwater was not present at the site	
Volatilization to Outdoor Air (RBC _{wo})		Residential	No	Groundwater was not present at the site	
		Urban Residential	No	Groundwater was not present at the site	
		Occupational	No	Groundwater was not present at the site	
Vapor Intrusion into Buildings (RBC _{wi})		Residential	No	Groundwater was not present at the site	
		Urban Residential	No	Groundwater was not present at the site	
		Occupational	No	Groundwater was not present at the site	
Groundwater in Excavation (RBC _{we})		Construction & Excavation Worker	No	Groundwater was not present at the site	
Soil Gas		Vapor Intrusion into Buildings (RBC _{sv})	Residential	Yes	Residential buildings are present within 50-feet of impacted soils
			Occupational	No	The more stringent residential receptor scenario was selected

Table 2
Soil Sample Analytical Results

Sample Identification	Depth ¹	Date	Soil Disposition	Analytical Results (mg/kg)											
				Total Petroleum Hydrocarbons (TPH)						Volatile Organic Carbons (VOCs) by EPA Method 8260C or 8021B					
				Gasoline Range (C ₂ -C ₅) by NWTPH-HCID	Diesel Range (C ₁₀ -C ₂₅) by NWTPH-HCID	Residual Range (C ₂₅ -C ₃₆) by NWTPH-HCID	Gasoline Range (C ₂ -C ₅) by NWTPH-Gx	Diesel Range (C ₁₀ -C ₂₅) by NWTPH-Dx	Residual Range (C ₂₅ -C ₃₆) by NWTPH-Dx	Benzene	Toluene	Ethyl-benzene	m,p-Xylene	o-Xylene	
<i>SG1@1</i>	<i>1</i>	<i>10/17/18</i>	<i>Removed</i>	>20	<50	>250	--	--	--	--	--	--	--	--	--
S2@4.5-6.5	4.5-6.5	10/17/18	Remain	<20	<50	<250	--	--	--	--	--	--	--	--	--
S3@4.5-6.5	4.5-6.5	10/17/18	Remain	<20	<50	<250	--	--	--	--	--	--	--	--	--
<i>SG4@1</i>	<i>1</i>	<i>12/18/18</i>	<i>Removed</i>	--	--	--	7.4	80 x	790	<0.03	<0.05	<0.05	<0.1	<0.05	
S5@4.5-6.5	4.5-6.5	12/27/18	Remain	<20	<50	<250	--	--	--	--	--	--	--	--	
S6@4.5-6.5	4.5-6.5	12/27/18	Remain	<20	<50	<250	--	--	--	--	--	--	--	--	
S7@4.5-6.5	4.5-6.5	12/27/18	Remain	<20	<50	<250	--	--	--	--	--	--	--	--	
S8@0.5-2.5	0.5-2.5	12/27/18	Remain	<20	<50	<250	--	--	--	--	--	--	--	--	
S8@4.5-6.5	4.5-6.5	12/27/18	Remain	<20	<50	<250	--	--	--	--	--	--	--	--	
S9@1-3	1-3	12/27/18	Remain	<20	<50	<250	--	--	--	--	--	--	--	--	
SG10@1.5	1.5	1/4/19	Remain	<20	<50	<250	--	--	--	--	--	--	--	--	
SG11@1.5	1.5	1/4/19	Remain	<20	<50	<250	--	--	--	--	--	--	--	--	
SG12@1.5	1.5	1/4/19	Remain	<20	<50	<250	--	--	--	--	--	--	--	--	
DEQ Risk-Based Concentrations															
Pathway		Receptor		RBCs											
Soil Ingestion, Dermal Contact, and Inhalation (RBC _{so})		Residential		1,200	1,100	1,200	1,100	8.2	5,800	34	1,400				
		Excavation Worker		>Max	>Max	>Max	>Max	11,000	770,000	49,000	560,000				
Volatilization to Outdoor Air (RBC _{oa})		Residential		5,900	>Max	5,900	>Max	11	>Csat	36	>Csat				
Leaching to Groundwater (RBC _{gw})		Residential		31	9,500	31	9,500	0.023	83	0.22	23				

Notes:

Grey highlighted cells indicate that detected value remaining on site exceeds one or more of the referenced RBCs.

Gray italics indicate sample location has been removed from the site.

RBCs for m,p-Xylenes and o-Xylenes are given as a total of all Xylenes.

RBCs for Diesel Range and Residual Range Organics are given as Generic Diesel/Heating Oil.

1 - Depth in feet below ground surface

mg/kg - Results reported in milligrams per kilogram

x - Sample chromatograph does not resemble fuel standard used for quantitation

>Csat - The soil RBC exceeds the three-phase equilibrium partitioning for this compound

>Max - The constituent RBC for this pathway is calculated as greater than 1,000,000 mg/kg.

NE - An RBC has not been established for this compound

NV - Compound is considered non-volatile for purposes of exposure calculations

-- - Not analyzed

APPENDICES

Appendix A

Photographs of Field Activities

Site Photos



The site had an underground storage tank located south of the garage within the driveway.



SSES removed the concrete located above the UST and dug to the top of the UST. The overburden soil was placed on plastic sheeting for disposal. SSES personnel inerted the UST and cut it open.

Site Photos



The UST contents were removed and the UST was thoroughly pressure washed with approximately 20 gallons of rinsate. No holes were observed on the UST bottom.



The UST area was backfilled with gravel.

Underground Storage Tank Closure Report
6605 SW Canyon Lane
Portland, Oregon 97225
DEQ File #34-18-1201

Site Photos



The UST area was restored to grade with a concrete patch.

Appendix B

Certified Analytical Reports, Chain of Custody Documents

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

December 27, 2018

Alex Mottern, Project Manager
Soil Solutions
3540 SE 28th Ave
Portland, OR 97202

Dear Mr Mottern:

Included are the results from the testing of material submitted on December 19, 2018 from the 6605 SW Canyon Lane - T2, F&BI 812267 project. There are 11 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. 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 should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Soil Solutions A/P
SSI1227R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/27/18

Date Received: 12/19/18

Project: 6605 SW Canyon Lane - T2, F&BI 812267

Date Extracted: 12/26/18

Date Analyzed: 12/26/18

**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>	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150)
SG4@1' 812267-02	7.4	93
Method Blank 08-2891 MB	<5	85

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/27/18

Date Received: 12/19/18

Project: 6605 SW Canyon Lane - T2, F&BI 812267

Date Extracted: 12/19/18

Date Analyzed: 12/19/18

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND RESIDUAL RANGE
USING METHOD NWTPH-D_x**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Residual Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 53-144)
SG4@1' 812267-01	80 x	790	94
Method Blank 08-2870 MB	<50	<250	90

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	SG4@1'	Client:	Soil Solutions
Date Received:	12/19/18	Project:	6605 SW Canyon Lane - T2
Date Extracted:	12/19/18	Lab ID:	812267-01
Date Analyzed:	12/20/18	Data File:	121940.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	62	142
Toluene-d8	103	55	145
4-Bromofluorobenzene	104	65	139

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	Soil Solutions
Date Received:	Not Applicable	Project:	6605 SW Canyon Lane - T2
Date Extracted:	12/19/18	Lab ID:	08-2821 mb
Date Analyzed:	12/19/18	Data File:	121910.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	62	142
Toluene-d8	101	55	145
4-Bromofluorobenzene	100	65	139

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SG4@1'	Client:	Soil Solutions
Date Received:	12/19/18	Project:	6605 SW Canyon Lane - T2
Date Extracted:	12/20/18	Lab ID:	812267-01
Date Analyzed:	12/21/18	Data File:	812267-01.031
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	Method Blank	Client:	Soil Solutions
Date Received:	NA	Project:	6605 SW Canyon Lane - T2
Date Extracted:	12/20/18	Lab ID:	I8-877 mb
Date Analyzed:	12/21/18	Data File:	I8-877 mb.029
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/27/18

Date Received: 12/19/18

Project: 6605 SW Canyon Lane - T2, F&BI 812267

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

Laboratory Code: 811494-08 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Gasoline	mg/kg (ppm)	110	110	8

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	mg/kg (ppm)	20	90	71-131

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/27/18

Date Received: 12/19/18

Project: 6605 SW Canyon Lane - T2, F&BI 812267

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

Laboratory Code: 812265-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	86	90	64-133	5

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	90	58-147

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/27/18

Date Received: 12/19/18

Project: 6605 SW Canyon Lane - T2, F&BI 812267

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

Laboratory Code: 812222-92 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Benzene	mg/kg (ppm)	2.5	<0.03	76	74	29-129	3
Toluene	mg/kg (ppm)	2.5	<0.05	77	75	35-130	3
Ethylbenzene	mg/kg (ppm)	2.5	<0.05	78	77	32-137	1
m,p-Xylene	mg/kg (ppm)	5	<0.1	76	76	34-136	0
o-Xylene	mg/kg (ppm)	2.5	<0.05	80	78	33-134	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	2.5	95	68-114
Toluene	mg/kg (ppm)	2.5	96	66-126
Ethylbenzene	mg/kg (ppm)	2.5	96	64-123
m,p-Xylene	mg/kg (ppm)	5	95	78-122
o-Xylene	mg/kg (ppm)	2.5	100	77-124

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/27/18

Date Received: 12/19/18

Project: 6605 SW Canyon Lane - T2, F&BI 812267

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL/SOLID SAMPLES
FOR TCLP METALS USING
EPA METHODS 6020B AND 1311**

Laboratory Code: 812267-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Lead	mg/L (ppm)	1.0	<1	103	103	75-125	0

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Lead	mg/L (ppm)	1.0	105	80-120

FRIEDMAN & BRUYA, INC.

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 compound 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. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- 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.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

October 25, 2018

Alex Mottern, Project Manager
Soil Solutions
3540 SE 28th Ave
Portland, OR 97202

Dear Mr Mottern:

Included are the results from the testing of material submitted on October 18, 2018 from the 6605 SW Canyon Ln - T2, F&BI 810356 project. There are 2 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. 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 should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Soil Solutions A/P
SSI1025R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/25/18
Date Received: 10/18/18
Project: 6605 SW Canyon Ln - T2, F&BI 810356
Date Extracted: 10/18/18
Date Analyzed: 10/18/18

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID**

Results Reported on a Dry Weight Basis
Results Reported as Not Detected (ND) or Detected (D)

THE DATA PROVIDED BELOW WAS PERFORMED PER THE GUIDELINES ESTABLISHED BY THE WASHINGTON DEPARTMENT OF ECOLOGY AND WERE NOT DESIGNED TO PROVIDE INFORMATION WITH REGARDS TO THE ACTUAL IDENTIFICATION OF ANY MATERIAL PRESENT

<u>Sample ID</u> Laboratory ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 48-168)
SG1@1 810356-01 1/10	D	ND	D	94
S2@4.5-6.5 810356-02	ND	ND	ND	102
S3@4.5-6.5 810356-03	ND	ND	ND	110
Method Blank 08-2349 MB	ND	ND	ND	111

ND - Material not detected at or above 20 mg/kg gas, 50 mg/kg diesel and 250 mg/kg heavy oil.

FRIEDMAN & BRUYA, INC.

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 compound 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. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- 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.

8103576

SAMPLE CHAIN OF CUSTODY

ME 10/18/18

E04/084

Send Report To Alex Motern

Company Soil Solutions

Address 3540 SE 28th Avenue

City, State, Zip Portland, OR 97202

Phone # (503) 234-2118 Fax # (503) 331-7133

SAMPLERS (signature)

PROJECT NAME/NO.

PO #

6605 SW Canyon Ln-T2

REMARKS

TURNAROUND TIME

Standard by WS

Rush charges authorized by:

SAMPLE DISPOSAL

Dispose after 30 days

Return samples

Will call with instructions

ANALYSES REQUESTED

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	NWTPH-Dx	NWTPH-HCID	NWTPH-Gx	BTEX 8021B	BTEXN 8260C	PAHs (No N) 8270CCIM	PAHs 8270C SIM	Lead by 200.8	Notes
SG101	01A-C	10-17-18		Soil	2	X	X							
22045-6.5	02	10-17-18		Soil	1	X	X							
SS045-0.5	03	10-17-18		Soil	1	X	X							
Tank contents	AB	10-17-18			2202									Hold

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
Relinquished by:	<i>[Signature]</i>	Cory Davison		SS		10-17-18	
Received by:	<i>[Signature]</i>	Whan Phan		FEBI		10/18/18	0930
Relinquished by:							
Received by:							

Samples received at 4 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

January 2, 2019

Alex Mottern, Project Manager
Soil Solutions
3540 SE 28th Ave
Portland, OR 97202

Dear Mr Mottern:

Included are the results from the testing of material submitted on December 28, 2018 from the 6605 SW Canyon Ln, F&BI 812381 project. There are 2 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. 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 should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Soil Solutions A/P
SSI0102R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/02/19
Date Received: 12/28/18
Project: 6605 SW Canyon Ln, F&BI 812381
Date Extracted: 12/28/18
Date Analyzed: 12/28/18

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID**

Results Reported on a Dry Weight Basis
Results Reported as Not Detected (ND) or Detected (D)

THE DATA PROVIDED BELOW WAS PERFORMED PER THE GUIDELINES ESTABLISHED BY THE WASHINGTON DEPARTMENT OF ECOLOGY AND WERE NOT DESIGNED TO PROVIDE INFORMATION WITH REGARDS TO THE ACTUAL IDENTIFICATION OF ANY MATERIAL PRESENT

<u>Sample ID</u> Laboratory ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 53-144)
S5@4.5-6.5 812381-01	ND	ND	ND	84
S6@4.5-6.5 812381-02	ND	ND	ND	90
S7@4.5-6.5 812381-03	ND	ND	ND	84
S8@0.5-2.5 812381-04	ND	ND	ND	94
S8@4.5-6.5 812381-05	ND	ND	ND	95
S9@1-3 812381-06	ND	ND	ND	93
Method Blank 08-2923 MB	ND	ND	ND	84

ND - Material not detected at or above 20 mg/kg gas, 50 mg/kg diesel and 250 mg/kg heavy oil.

FRIEDMAN & BRUYA, INC.

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.
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- 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.

812381
 SAMPLE CHAIN OF CUSTODY
 ME 12/28/18 704 / US # 24

Send report to: Alex Mottorn
 Company: Soil Solutions
 Address: 3540 SE 28th Avenue
 City, State, Zip: Portland, OR 97202
 Phone #: (503) 234-2118 Fax #: (503) 331-7133

SAMPLERS (signature)
 PROJECT NAME/NO. PO #
 REMARKS: 6605 SW Canyon Ln

TURNAROUND TIME
 Standard
 RUSH
 Rush charges authorized by:
 SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED							Notes		
						NWTPH-Dx	NWTPH-HCID	NWTPH-Gx	BTEX 8021B	BTEXN 8260C	PAHs (No N) 8270CCIM	PAHs 8270C SIM		Lead by 200.8	
SE04.5-6.5	01A-C12/27/18			Soil	1 per 200g	X	X								
SE04.5-6.5	02				1 per 200g	X	X								
SE04.5-6.5	03				1 per 200g	X	X								
SE00.5-2.5	01				1 per 200g	X	X								
SE04.5-6.5	05				1 per 200g	X	X								
SE04.5-3	06				1 per 200g	X	X								

SIGNATURE: [Signature]
 PRINT NAME: KERRY PHAN
 COMPANY: Soil Solutions
 DATE: 12/27/18
 TIME: 12:05
 Received by: [Signature]
 Relinquished by: [Signature]

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282
 Fax (206) 283-5044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

January 9, 2019

Alex Mottern, Project Manager
Soil Solutions
3540 SE 28th Ave
Portland, OR 97202

Dear Mr Mottern:

Included are the results from the testing of material submitted on January 5, 2019 from the 6605 SW Canyon Ln-T2, F&BI 901046 project. There are 2 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 should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Soil Solutions A/P
SSI0109R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/09/19
Date Received: 01/05/19
Project: 6605 SW Canyon Ln-T2, F&BI 901046
Date Extracted: 01/07/19
Date Analyzed: 01/07/19

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID**

Results Reported on a Dry Weight Basis
Results Reported as Not Detected (ND) or Detected (D)

THE DATA PROVIDED BELOW WAS PERFORMED PER THE GUIDELINES ESTABLISHED BY THE WASHINGTON DEPARTMENT OF ECOLOGY AND WERE NOT DESIGNED TO PROVIDE INFORMATION WITH REGARDS TO THE ACTUAL IDENTIFICATION OF ANY MATERIAL PRESENT

<u>Sample ID</u> Laboratory ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 53-144)
SG10@1.5' 901046-01	ND	ND	ND	95
SG11@1.5' 901046-02	ND	ND	ND	96
SG12@1.5' 901046-03	ND	ND	ND	87
Method Blank 09-067 MB	ND	ND	ND	98

ND - Material not detected at or above 20 mg/kg gas, 50 mg/kg diesel and 250 mg/kg heavy oil.

FRIEDMAN & BRUYA, INC.

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.
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- 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.

901096

SAMPLE CHAIN OF CUSTODY

ME 01/05/19

V54
used/CO2

Send Report To Alex Mattern
 Company Soil Solutions
 Address 3540 SE 28th Avenue
 City, State, Zip Portland, OR 97202
 Phone # (503) 234-2118 Fax # (503) 331-7133

SAMPLERS (signature)			
PROJECT NAME/NO.	6605 SW Canyon Ln - T2		PO #
REMARKS			

TURNAROUND TIME
 Page # _____ of _____
 Standard
 RUSH 24 hr
 Rush charges authorized by: _____
 SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED							Notes		
						NWTPH-Dx	NWTPH-HCID	NWTPH-Gx	BTEX 8021B	BTEXN 8260C	PAHs (No N) 8270CCIM	PAHs 8270C SIM		Lead by 200.8	
SG10 @ 1.5'	OAC	1/4/19		Soil	3	X	X								
SG11 @ 1.5'	OR1					X	X								
SG12 @ 1.5'	OR3					X									

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282
 Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
	ANTONIA B	S/S	1/4/19	
	JAMES BRIDE	FEB	1/5	830
Received by:				
Relinquished by:				

Samples received at 72 °C

Appendix C

Waste Disposal Receipts



Requested Facility: Hillsboro Landfill
Multiple Generator Locations (Attach Locations)
Request Certificate of Disposal
Renewal? Original Profile Number: 129431OR

A. GENERATOR INFORMATION (MATERIAL ORIGIN)

1. Generator Name: Mike Larkins
2. Site Address: 6605 SE Canyon Lane
3. County: Washington
4. Contact Name: Alex Mottern
5. Email: alex@soilsolutionsenvironmental.com
6. Phone: (503) 234-2118
8. Generator EPA ID: N/A
9. State ID: N/A

B. BILLING INFORMATION

1. Billing Name: Soil Solutions
2. Billing Address: 3540 SE 28th Ave
3. Contact Name: Darren Blaine
4. Email: info@soilsolutionsenvironmental.com
5. Phone: (503) 234-2118
7. WM Hauled? Yes No
8. P.O. Number:
9. Payment Method: Credit Account Cash Credit Card

C. MATERIAL INFORMATION

1. Common Name: Fuel Oil Impacted Soil/Debris
Describe Process Generating Material: See Attached
Soil and/or Cleanup Debris (Tarps, Absorbents, Pads, PPE, Rags, Etc.) Contaminated with Fuel Oil due to a product spill or tank leak.
2. Material Composition and Contaminants: See Attached
Table with 2 columns: Contaminant, Percentage
3. State Waste Codes: N/A
4. Color: Various
5. Physical State at 70°F: Solid
6. Free Liquid Range Percentage: N/A
7. pH: N/A
8. Strong Odor: No
9. Flash Point: N/A

D. REGULATORY INFORMATION

1. EPA Hazardous Waste? Yes* No
2. State Hazardous Waste? Yes No
3. Is this material non-hazardous due to Treatment, Delisting, or an Exclusion? Yes* No
4. Contains Underlying Hazardous Constituents? Yes* No
5. From an industry regulated under Benzene NESHAP? Yes* No
6. Facility remediation subject to 40 CFR 63 GGGGG? Yes* No
7. CERCLA or State-mandated clean-up? Yes* No
8. NRC or State-regulated radioactive or NORM waste? Yes* No
9. Contains PCBs? If Yes, answer a, b and c.
a. Regulated by 40 CFR 761? Yes No
b. Remediation under 40 CFR 761.61 (a)? Yes No
c. Were PCB imported into the US? Yes No
10. Regulated and/or Untreated Medical/Infectious Waste? Yes No
11. Contains Asbestos? Yes No
If Yes: Non-Friable Non-Friable - Regulated Friable

E. ANALYTICAL AND OTHER REPRESENTATIVE INFORMATION

1. Analytical attached Yes
Please identify applicable samples and/or lab reports:
Friedman & Bruya lab report #812267. SG4@1 - analyzed for Gx, Dx, BTEX, and TCLP (Pb). Samples are preserved if additional analyses are requested.
2. Other information attached (such as MSDS)? Yes

F. SHIPPING AND DOT INFORMATION

1. One-Time Event Repeat Event/Ongoing Business
2. Estimated Quantity/Unit of Measure: 1
Tons Yards Drums Gallons Other:
3. Container Type and Size: 5 yard dump truck
4. USDOT Proper Shipping Name: N/A

G. GENERATOR CERTIFICATION (PLEASE READ AND CERTIFY BY SIGNATURE)

By signing this EZ Profile form, I hereby certify that all information submitted in this and all attached documents contain true and accurate descriptions of this material, and that all relevant information necessary for proper material characterization and to identify known and suspected hazards has been provided.

If I am an agent signing on behalf of the Generator, I have confirmed with the Generator that information contained in this Profile is accurate and complete.

Name (Print): Tess Chadil Date: 12/27/2018
Title: Senior Project Manager
Company: Soil Solutions Environmental Services

Certification Signature
Tess Chadil

Headquarters
 4150 N. Suttle Road
 Portland, Oregon 97217
 Phone 503-286-8352
 Toll Free 800-367-8894
 EPA# ORD980975692



Goshen, OR: EPA# ORQ000024941
Hoguan, WA: EPA# WAD988519419
Klamath Falls, OR: EPA# ORD980980775
Kennecook, WA: EPA# WAH0000011577
Medford, OR: EPA# ORD987197092
Coos Bay, OR: EPA# ORD980978266
Spokane, WA: EPA# WAH0000011585

BILL OF LADING
 317931

Date: 12-26-18
 Customer #: 9182

Dispatch #

Generator

Name: MIKE CARKINS
 Address: 6605 SW CANYON LAKE PORTLAND OR 97217
 City: PORTLAND State: OR Zip: 97217
 Contact Person: ALEX SO3-234-2118
 Phone: 503-234-2118
 County: CLATSOP

SOIL SOLUTIONS

Billing Information

Check# PO#

Transportation

Consigned To: OIL REFINING
 Destination: 4150 N SUTTLE RD PORTLAND OR 97217
 Via Carrier: OMICO
 Driver: DANNYN Truck # 4102

Load Ticket #

Gal./Brl.	Description	Profile Date	CDT/HCDT	pH	Flash Point	Rate per Gal./Brl.	Rate Per Hour	Charge
758	EMULSIFIED PULP & WATER	12/16/18		7	200#	.50		
1	HYDROXON TEST					46.00		
2 Hrs	TRUCK & DRIVER							118.00
Total:								

Above material is being transported for Recycling

EPA# NONE

Total:

As an authorized representative of the generator of the material described above, I certify that the information contained in this document is 100% accurate and complete. I further certify that this material does NOT constitute a hazardous waste and has NOT been mixed with any hazardous waste such as spent chlorinated solvents or any other contaminants including, without limitation, PCBs, pesticides, or any other hazardous wastes of substances. In the event that the material described in this document is in fact a hazardous waste, or contains 2 ppm or more of PCBs, I guarantee to pay all costs necessary for proper analysis, transportation, storage, and disposal as well as any fines, penalties, attorneys fees, expert witness fees and the loss of the petroleum product resulting from contamination and / or inaccurate and / or incomplete information concerning the material described above.

Signature

DANNYN

Date:

12-21-18



Hillsboro Landfill, Inc
 3205 SE Winter Ridge
 Hillsboro, OR, 97123
 Ph: (503)-640-9427

Original
 Ticket# 1511823

Customer Name SOILSOLUTION SOIL SOLUTIONS E Carrier soil solutions
 Ticket Date 01/04/2019 Vehicle# 172 Volume

Payment Type Credit Account Container
 Manual Ticket# Driver antonio

Route Check#
 State Waste Code Billing # 0002022
 Manifest NA Gen EPA ID N/A

Destination Grid

Profile 1294310R (LF02 - Fuel Oil Impacted Soil/Debris)

Generator OR-MIKE LARKINS MIKE LARKINS_6605 SE Canyon Lane, PORTLAND OR 97225

Time	Scale	Operator	Inbound	Gross	8480 lb
In 01/04/2019 12:44:38	Inbound 1	BLAKE1		Tare	6860 lb
Out 01/04/2019 13:13:23	Outbound	Jurime		Net	1620 lb
				Tons	0.81

Comments

Consumer Comments? We don't know. Please call.

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Cont Soil Pet-RGC-100		0.81	Tons				WRSH-IN
2 17.5% FER-17.5% FE 100			%				WRSH-IN

Total Tax
 Total Ticket

Driver's Signature

403MM

