

August 30, 2021

Mr. Terry Brown
Centerline Machine, Inc.
6251 Pershall Road
Marsing, Idaho 83639

**Subject: Soil Sampling and Analysis
Commercial Property
17202 110th Avenue East
Puyallup, Washington 98374**

Dear Mr. Brown:

In accordance with your request, Puget Environmental, PLLC (Puget) has prepared this report presenting results of soil sampling and analysis conducted at the subject site. The investigation was conducted to evaluate soil for the presence of petroleum hydrocarbons, polycyclic aromatic hydrocarbons, halogenated volatile organic compounds and metals. The work was undertaken in response to an initial field investigation conducted by the Washington State Department of Ecology (Ecology) in August 2018, as referenced in their early notice letter dated May 3, 2019. A copy of Ecology's early notice letter is attached.

SOIL SAMPLING AND ANALYSIS

Soil Sampling and Excavation

Initial Soil Sampling

On August 9, 2021, Puget visited the site to observe conditions in the areas identified in Ecology's May 3, 2019 letter and collect soil samples for laboratory analysis. A total of four samples (S-1 through S-4) were collected in the areas formerly used to store dumpsters, and east of the site buildings where indications of prior dumpster storage were observed. Soil sample locations are shown on Figures 1 through 3.

Soil samples were collected approximately 1 to 2 inches below the surface in laboratory-supplied containers and placed into an iced cooler pending transport to the analytical laboratory.

Soil encountered generally consisted of damp, brown, silty, fine-grained sand with gravel.

Excavation and Follow Up Sampling

Based on laboratory results, the property owner subsequently conducted excavation activities to remove cadmium-impacted soil near sample S-1 and hydrocarbon-impacted soil near sample S-3. Approximately 2 inches of gravel and surface material were reportedly removed near S-1. Approximately 1 cubic yard of soil was excavated to approximately 2.5 feet below ground surface (bgs) near S-3.

On August 16, 2021, Puget returned to the site to collect confirmation soil samples from the excavation near S-3. A total of 5 soil samples were collected from the excavation sidewalls and bottom in laboratory-supplied containers and submitted for analysis. Based on laboratory results, the excavation was extended to approximately 4 feet bgs to remove additional impacted soil.

On August 19, 2021 Puget returned to the site collect additional confirmation samples from the excavated areas near S-1 and S-3. A total of 2 samples were collected approximately 4.5 feet bgs from the bottom of the excavation near S-3 and approximately 2 inches bgs from the area near S-1.

Laboratory Analysis and Results

Soil samples were transported to the Friedman & Bruya laboratory in Seattle, Washington analysis. Soil samples collected during the initial sampling event on August 9, 2021, were analyzed for the following:

- Total petroleum hydrocarbons as gasoline (TPH-G) using Ecology Method NWTPH-Gx
- Total petroleum hydrocarbons as diesel (TPH-D) and as oil (TPH-O) using Ecology Method NWTPH-Dx
- Arsenic, cadmium, lead, mercury and chromium using EPA Method 6020B
- Benzene, toluene, ethylbenzene and xylenes (BTEX) and halogenated volatile organic compounds (HVOCs) using EPA Method 8260D
- Polycyclic aromatic hydrocarbons (PAHs) using EPA Method 8270E

Based on results, select samples were additionally analyzed for hexavalent chromium using EPA Method 7196.

Initial Soil Sample Results

Laboratory results indicate initial soil sample S-3 contained 11,000 milligrams per kilogram (mg/kg) TPH-D and 25,000 mg/kg TPH-O, exceeding the Model Toxics Control Act (MTCA) Method A cleanup level of 2,000 mg/kg.

Results of metals analysis indicate samples S-1 and S-3 contained cadmium concentrations of 13.4 mg/kg and 4.88 mg/kg, respectively, exceeding the MTCA Method A cleanup level of 2 mg/kg. Results indicate the 4 samples analyzed contained total chromium concentrations ranging between 14.6 mg/kg and 1,370 mg/kg with the highest concentration detected in S-3, below the MTCA Method A trivalent chromium cleanup level of 2,000 mg/kg. Follow up analysis for hexavalent chromium indicates sample S-3 contained a hexavalent chromium concentration below the laboratory method reporting limit (MRL).

No other analyte concentrations exceeding MTCA Method A cleanup levels were detected in any of the samples analyzed.

Follow Up Soil Sampling Results

Laboratory results indicate soil sample EXB-2.5 collected approximately 2.5 feet bgs from the excavation near S-3 following removal of impacted soil contained 3,100 mg/kg TPH-O, exceeding the MTCA Method A cleanup level of 2,000 mg/kg. None of the remaining excavation soil samples contained any analyte concentrations exceeding the MTCA Method A cleanup levels.

Results of soil samples subsequently collected following removal of additional soil near S-3 indicate sample EXB2-4 collected approximately 4 feet bgs from the excavation bottom contained TPH-O concentrations below the laboratory MRL.

Results indicate soil sample S1-2 collected approximately 2 inches bgs near S-1 contained 1.17 mg/kg cadmium, below the MTCA Method A cleanup level of 2 mg/kg. Copies of the official laboratory results and chain of custody documentation are attached.

Waste Disposal

Approximately 1.06 tons of impacted soil were transported to the Regional Disposal Intermodal facility in Seattle, Washington for disposal. A copy of the weigh ticket from the disposal facility is attached.

RESULTS

Results indicate soil samples collected near initial samples S-1 and S-3 following removal of impacted soil contained analyte concentrations below the MTCA Method A cleanup levels.

Based on these results it appears soil impacted with cadmium and TPH-O at concentrations exceeding MTCA Method A cleanup levels has been removed and no further action is necessary.

LIMITATIONS

The scope of work for this investigation was conducted in a manner that is consistent with the level of care and skill ordinarily exercised by other members of the profession practicing in the same locality and under similar conditions as of the date the services were provided. Results of our evaluation including conclusions, opinions and recommendations are based on a limited number of observations and data. Data from other areas may be different. Puget makes no representation, guarantee, or warranty, express or implied, regarding the services, communication, report, opinion, or instrument, of service provided.

Puget provides various levels of service to meet the needs of varying clients. Evaluation of geologic and environmental conditions requires judgement leading to conclusions and recommendations that are generally based on incomplete knowledge of subsurface conditions due to the limitations of data from field studies. Although risk cannot be eliminated, more detailed and extensive studies yield more information which may help understand and manage the level of risk.

This work was conducted based on the scope and budget requirements, and site information provided by our client.

PUGET

ENVIRONMENTAL P.L.L.C.

We appreciate the opportunity to assist on this project. If you have any questions, please do not hesitate to contact me at (206) 518-4887.

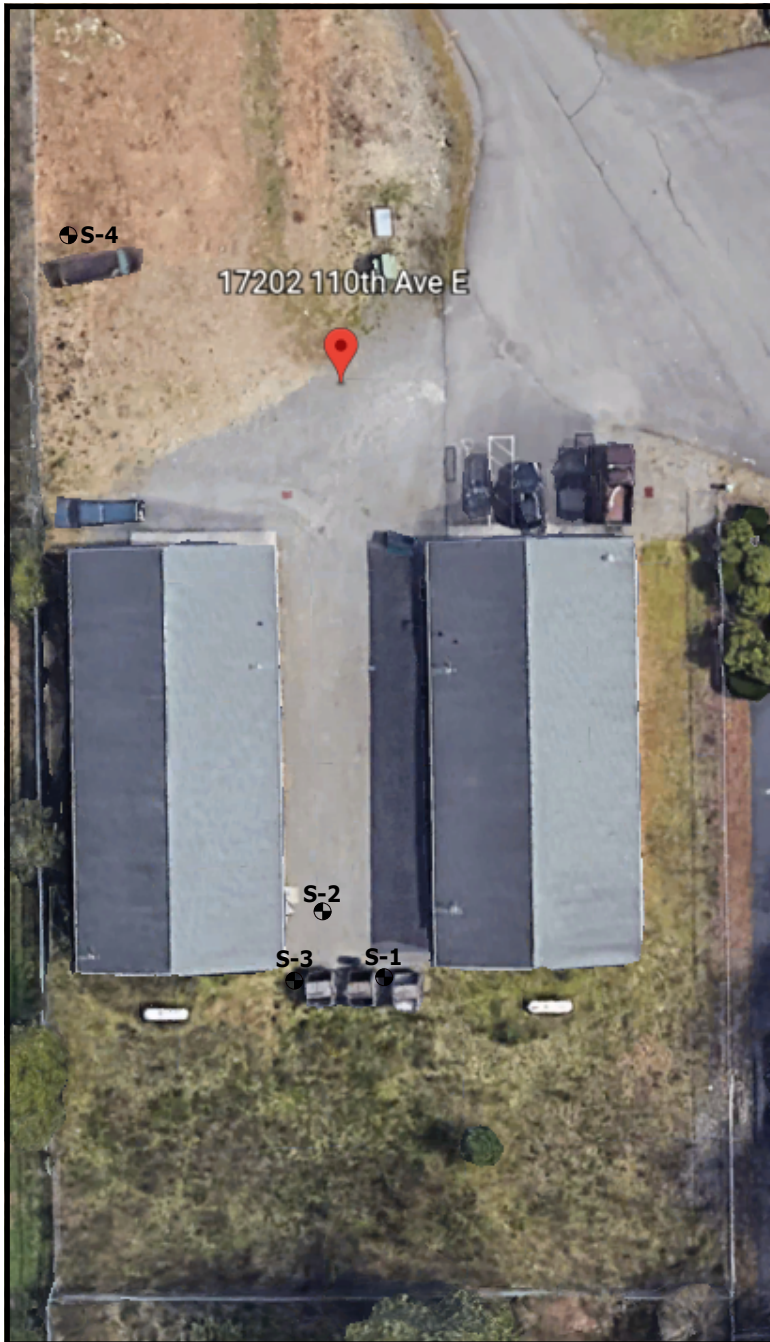
Sincerely,

PUGET Environmental PLLC

A handwritten signature in blue ink, appearing to read 'John K. Meyer', is positioned above the printed name.

John K. Meyer, L.HG.
Principal Hydrogeologist

Attachments	Ecology Early Notice Letter
	Figures
	Laboratory Report and Chain of Custody Documentation
	Weigh Ticket



Source: Google Earth Image May 2019

LEGEND

● S-1 Soil Sample Location

0 20 40
Approximate Scale (Feet)



Dimensions and locations are approximate.

PUGET

ENVIRONMENTAL P.L.L.C.
4616 25th Avenue NE #143
Seattle, Washington 98105
PugetEnvironmental.com

Project Number :21440 8/10/21 JPM

Brown Property
17202 110th Avenue East
Puyallup, Washington 98374

FIGURE 1
SOIL SAMPLE
LOCATIONS



LEGEND

● S-1 Soil Sample Location

0 20 40
Approximate Scale (Feet)



Dimensions and locations are approximate.

PUGET

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Brown Property
17202 110th Avenue East
Puyallup, Washington 98374

FIGURE 2
SOIL SAMPLES
S-1 & S-2



LEGEND

⊕ S-1 Soil Sample Location

0 20 40
Approximate Scale (Feet)



Dimensions and locations are approximate.

PUGET

ENVIRONMENTAL P.L.L.C.
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Puyallup, Washington 98374

FIGURE 3
SOIL SAMPLES
S-3 & S-4



Electronic Copy

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
PO Box 47775 • Olympia, Washington 98504-7775 • 360-407-6300
Call 711 for Washington Relay Service • Persons with a speech disability can call 877-833-6341

May 3, 2019

Terry Brown
17202 110 Ave E
Puyallup, WA 98374

Re: Early Notice Letter Regarding the Release of Hazardous Substances

- **Site Name:** Sweeney Industries
- **Location:** 17202 110th Ave E, Puyallup, Pierce County, WA 98374
- **Facility Site ID Number:** 42848

To Whom It May Concern:

The Department of Ecology (Ecology) is required to conduct an Initial Investigation, under chapter 70.105 Revised Code of Washington (RCW), upon receiving a report of release or threatened release of hazardous substance that may pose a threat to human health or the environment.

[The Model Toxics Control Act \(MTCA\)](#),¹ chapter 70.105D RCW, mandates Ecology maintain a database of Confirmed or Suspected Contaminated Sites. As a result of the initial investigation conducted by Ecology, this property has been added to the database as a State Cleanup Site and assigned a Facility Site Identification number of 42848. Please note that inclusion in the database does not mean Ecology has determined you to be a potentially liable person.

During the investigation, Ecology found soil and groundwater suspected to be contaminated with non-halogenated organics, halogenated organics, and metals above MTCA cleanup levels at the location listed above. In the future, Ecology may conduct a more detailed inspection of this property known as a site hazard assessment. At that time, Ecology will assess whether action will be needed and establish a priority for the work.

Ecology's policy is to work cooperatively with individuals to accomplish prompt and effective cleanups. However, due to limited resources we are not always able to provide requested assistance. Your cooperation with Ecology in planning or conducting a remedial action is not an admission of guilt or liability. Please be aware of state laws that must be adhered to if you decide to proceed with cleanup work on your own.

¹ <https://ecology.wa.gov/Spills-Cleanup/Contamination-cleanup/Rules-directing-our-cleanup-work/Model-Toxics-Control-Act>

Enclosed is a Model Toxics Control Act Cleanup Regulation Focus Sheet. This provides a brief overview of the process for the [cleanup of contaminated sites](#)². For additional information regarding each step in the cleanup process and Ecology's Voluntary Cleanup Program, feel free to contact me or Nick Acklam, the Southwest Regional Office Voluntary Cleanup Program Coordinator, at (360) 407-6347, or visit [Ecology's Voluntary Cleanup Program website](#).³

Chapter 70.105D RCW and the implementing regulations, chapter 173-340 Washington Administrative Code (WAC) which detail these requirements, can be found at [Ecology's Toxics Cleanup Program's statutes and regulations website](#).⁴

If you would like a hard copy of the MTCA regulations, or if you have any questions, please call me at (360) 407-6246. Thank you for your cooperation.

Sincerely,



Kirsten Wecker
Toxics Cleanup Program
Southwest Regional Office

Enclosure: Model Toxics Control Act Cleanup Regulation Focus Sheet

By certified mail: 9489 0090 0027 6066 6732 60

cc: Nick Acklam, Ecology (by email)

² <http://www.ecy.wa.gov/cleanup.html>

³ <https://ecology.wa.gov/vcp>

⁴ <https://ecology.wa.gov/Spills-Cleanup/Contamination-cleanup/Rules-directing-our-cleanup-work>

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

August 18, 2021

John Meyer, Project Manager
Puget Environmental
4616 25th Avenue NE, Suite 143
Seattle, WA 98105

Dear Mr Meyer:

Included are the results from the testing of material submitted on August 9, 2021 from the Brown, F&BI 108128 project. There are 28 pages included in this report. Sample S-3 was sent to Fremont Analytical for hexavalent chromium analysis. The report is enclosed.

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: Sarah Meyer
PGT0818R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/18/21
Date Received: 08/09/21
Project: Brown, F&BI 108128
Date Extracted: 08/09/21
Date Analyzed: 08/10/21

**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 (% Recovery) (Limit 58-139)
S-1 pc 108128-01	<5	83
S-2 pc 108128-02	<5	86
S-3 pc 108128-03	<5	84
S-4 pc 108128-04	<5	84
Method Blank 01-1770 MB	<5	89

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/18/21
Date Received: 08/09/21
Project: Brown, F&BI 108128
Date Extracted: 08/09/21
Date Analyzed: 08/09/21

**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	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 48-168)
S-1 108128-01	230 x	970	92
S-2 108128-02	<50	<250	89
S-3 108128-03	11,000 x	25,000 ve	91
S-4 108128-04	<50	<250	97
Method Blank 01-1826 MB	<50	<250	94

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	S-1	Client:	Puget Environmental
Date Received:	08/09/21	Project:	Brown, F&BI 108128
Date Extracted:	08/10/21	Lab ID:	108128-01
Date Analyzed:	08/10/21	Data File:	108128-01.082
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
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Arsenic	2.45
Cadmium	13.4
Lead	46.1
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	S-1	Client:	Puget Environmental
Date Received:	08/09/21	Project:	Brown, F&BI 108128
Date Extracted:	08/10/21	Lab ID:	108128-01 x5
Date Analyzed:	08/13/21	Data File:	108128-01 x5.053
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
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Chromium	78.8
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	S-2	Client:	Puget Environmental
Date Received:	08/09/21	Project:	Brown, F&BI 108128
Date Extracted:	08/10/21	Lab ID:	108128-02
Date Analyzed:	08/10/21	Data File:	108128-02.083
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
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Arsenic	2.11
Cadmium	<1
Lead	3.92
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	S-2	Client:	Puget Environmental
Date Received:	08/09/21	Project:	Brown, F&BI 108128
Date Extracted:	08/10/21	Lab ID:	108128-02 x5
Date Analyzed:	08/13/21	Data File:	108128-02 x5.054
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
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Chromium	150
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	S-3	Client:	Puget Environmental
Date Received:	08/09/21	Project:	Brown, F&BI 108128
Date Extracted:	08/10/21	Lab ID:	108128-03
Date Analyzed:	08/10/21	Data File:	108128-03.084
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
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Arsenic	3.78
Cadmium	4.88
Lead	31.4
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	S-3	Client:	Puget Environmental
Date Received:	08/09/21	Project:	Brown, F&BI 108128
Date Extracted:	08/10/21	Lab ID:	108128-03 x5
Date Analyzed:	08/13/21	Data File:	108128-03 x5.055
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
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Chromium	1,370
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	S-4	Client:	Puget Environmental
Date Received:	08/09/21	Project:	Brown, F&BI 108128
Date Extracted:	08/10/21	Lab ID:	108128-04
Date Analyzed:	08/10/21	Data File:	108128-04.085
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
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Arsenic	2.94
Cadmium	<1
Lead	8.10
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	S-4	Client:	Puget Environmental
Date Received:	08/09/21	Project:	Brown, F&BI 108128
Date Extracted:	08/10/21	Lab ID:	108128-04 x5
Date Analyzed:	08/13/21	Data File:	108128-04 x5.056
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
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Chromium	14.6
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	Puget Environmental
Date Received:	NA	Project:	Brown, F&BI 108128
Date Extracted:	08/10/21	Lab ID:	I1-480 mb2
Date Analyzed:	08/10/21	Data File:	I1-480 mb2.079
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
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Arsenic	<1
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	S-1 pc	Client:	Puget Environmental
Date Received:	08/09/21	Project:	Brown, F&BI 108128
Date Extracted:	08/10/21	Lab ID:	108128-01
Date Analyzed:	08/10/21	Data File:	081019.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	90	109
Toluene-d8	97	89	112
4-Bromofluorobenzene	99	84	115

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Benzene	<0.03
Trichloroethene	<0.02
Toluene	<0.05
Tetrachloroethene	<0.025
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05

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ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	S-2 pc	Client:	Puget Environmental
Date Received:	08/09/21	Project:	Brown, F&BI 108128
Date Extracted:	08/10/21	Lab ID:	108128-02
Date Analyzed:	08/10/21	Data File:	081020.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	90	109
Toluene-d8	101	89	112
4-Bromofluorobenzene	99	84	115

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Benzene	<0.03
Trichloroethene	<0.02
Toluene	<0.05
Tetrachloroethene	<0.025
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	S-3 pc	Client:	Puget Environmental
Date Received:	08/09/21	Project:	Brown, F&BI 108128
Date Extracted:	08/10/21	Lab ID:	108128-03
Date Analyzed:	08/11/21	Data File:	081129.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	90	109
Toluene-d8	100	89	112
4-Bromofluorobenzene	102	84	115

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Benzene	<0.03
Trichloroethene	<0.02
Toluene	<0.05
Tetrachloroethene	<0.025
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	S-4 pc	Client:	Puget Environmental
Date Received:	08/09/21	Project:	Brown, F&BI 108128
Date Extracted:	08/10/21	Lab ID:	108128-04
Date Analyzed:	08/10/21	Data File:	081021.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	90	109
Toluene-d8	95	89	112
4-Bromofluorobenzene	98	84	115

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Benzene	<0.03
Trichloroethene	<0.02
Toluene	<0.05
Tetrachloroethene	<0.025
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	Method Blank	Client:	Puget Environmental
Date Received:	Not Applicable	Project:	Brown, F&BI 108128
Date Extracted:	08/10/21	Lab ID:	01-1808 mb
Date Analyzed:	08/10/21	Data File:	081008.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	90	109
Toluene-d8	101	89	112
4-Bromofluorobenzene	100	84	115

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Benzene	<0.03
Trichloroethene	<0.02
Toluene	<0.05
Tetrachloroethene	<0.025
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	S-1	Client:	Puget Environmental
Date Received:	08/09/21	Project:	Brown, F&BI 108128
Date Extracted:	08/09/21	Lab ID:	108128-01 1/10
Date Analyzed:	08/10/21	Data File:	081008.D
Matrix:	Soil	Instrument:	GCMS12
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	55	39	103
Phenol-d6	60	48	109
Nitrobenzene-d5	61	23	138
2-Fluorobiphenyl	76	50	150
2,4,6-Tribromophenol	86	40	127
Terphenyl-d14	87	50	150

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.02
2-Methylnaphthalene	<0.02
1-Methylnaphthalene	<0.02
Acenaphthylene	<0.02
Acenaphthene	<0.02
Fluorene	<0.02
Phenanthrene	0.035
Anthracene	<0.02
Fluoranthene	0.073
Pyrene	0.062
Benz(a)anthracene	0.023
Chrysene	0.038
Benzo(a)pyrene	0.045
Benzo(b)fluoranthene	0.057
Benzo(k)fluoranthene	0.021
Indeno(1,2,3-cd)pyrene	0.029
Dibenz(a,h)anthracene	<0.02
Benzo(g,h,i)perylene	0.033

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	S-2	Client:	Puget Environmental
Date Received:	08/09/21	Project:	Brown, F&BI 108128
Date Extracted:	08/09/21	Lab ID:	108128-02 1/25
Date Analyzed:	08/10/21	Data File:	081009.D
Matrix:	Soil	Instrument:	GCMS12
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	67 d	39	103
Phenol-d6	72 d	48	109
Nitrobenzene-d5	66 d	23	138
2-Fluorobiphenyl	87 d	50	150
2,4,6-Tribromophenol	96 d	40	127
Terphenyl-d14	98 d	50	150

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.05
2-Methylnaphthalene	<0.05
1-Methylnaphthalene	<0.05
Acenaphthylene	<0.05
Acenaphthene	<0.05
Fluorene	<0.05
Phenanthrene	<0.05
Anthracene	<0.05
Fluoranthene	0.065
Pyrene	<0.05
Benz(a)anthracene	<0.05
Chrysene	<0.05
Benzo(a)pyrene	<0.05
Benzo(b)fluoranthene	<0.05
Benzo(k)fluoranthene	<0.05
Indeno(1,2,3-cd)pyrene	<0.05
Dibenz(a,h)anthracene	<0.05
Benzo(g,h,i)perylene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	S-3	Client:	Puget Environmental
Date Received:	08/09/21	Project:	Brown, F&BI 108128
Date Extracted:	08/09/21	Lab ID:	108128-03 1/25
Date Analyzed:	08/10/21	Data File:	081010.D
Matrix:	Soil	Instrument:	GCMS12
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	64 d	39	103
Phenol-d6	71 d	48	109
Nitrobenzene-d5	73 d	23	138
2-Fluorobiphenyl	93 d	50	150
2,4,6-Tribromophenol	100 d	40	127
Terphenyl-d14	181 d	50	150

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.05
2-Methylnaphthalene	<0.05
1-Methylnaphthalene	<0.05
Acenaphthylene	<0.05
Acenaphthene	<0.05
Fluorene	<0.05
Phenanthrene	0.14
Anthracene	<0.05
Fluoranthene	<0.05
Pyrene	0.15
Benz(a)anthracene	<0.05
Chrysene	<0.05
Benzo(a)pyrene	<0.05 J
Benzo(b)fluoranthene	<0.05 J
Benzo(k)fluoranthene	<0.05 J
Indeno(1,2,3-cd)pyrene	<0.05 J
Dibenz(a,h)anthracene	<0.05 J
Benzo(g,h,i)perylene	<0.05 J

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	S-3	Client:	Puget Environmental
Date Received:	08/09/21	Project:	Brown, F&BI 108128
Date Extracted:	08/09/21	Lab ID:	108128-03 1/250
Date Analyzed:	08/11/21	Data File:	081114.D
Matrix:	Soil	Instrument:	GCMS12
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	57 d	39	103
Phenol-d6	60 d	48	109
Nitrobenzene-d5	65 d	23	138
2-Fluorobiphenyl	80 d	50	150
2,4,6-Tribromophenol	74 d	40	127
Terphenyl-d14	110 d	50	150

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.5
2-Methylnaphthalene	<0.5
1-Methylnaphthalene	<0.5
Acenaphthylene	<0.5
Acenaphthene	<0.5
Fluorene	<0.5
Phenanthrene	<0.5
Anthracene	<0.5
Fluoranthene	<0.5
Pyrene	<0.5
Benz(a)anthracene	<0.5
Chrysene	<0.5
Benzo(a)pyrene	<0.5
Benzo(b)fluoranthene	<0.5
Benzo(k)fluoranthene	<0.5
Indeno(1,2,3-cd)pyrene	<0.5
Dibenz(a,h)anthracene	<0.5
Benzo(g,h,i)perylene	<0.5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	S-4	Client:	Puget Environmental
Date Received:	08/09/21	Project:	Brown, F&BI 108128
Date Extracted:	08/09/21	Lab ID:	108128-04 1/10
Date Analyzed:	08/10/21	Data File:	081007.D
Matrix:	Soil	Instrument:	GCMS12
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	62	39	103
Phenol-d6	69	48	109
Nitrobenzene-d5	65	23	138
2-Fluorobiphenyl	90	50	150
2,4,6-Tribromophenol	100	40	127
Terphenyl-d14	102	50	150

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.02
2-Methylnaphthalene	<0.02
1-Methylnaphthalene	<0.02
Acenaphthylene	<0.02
Acenaphthene	<0.02
Fluorene	<0.02
Phenanthrene	0.026
Anthracene	<0.02
Fluoranthene	0.076
Pyrene	0.058
Benz(a)anthracene	0.024
Chrysene	0.041
Benzo(a)pyrene	0.042
Benzo(b)fluoranthene	0.064
Benzo(k)fluoranthene	0.024
Indeno(1,2,3-cd)pyrene	0.035
Dibenz(a,h)anthracene	<0.02
Benzo(g,h,i)perylene	0.034

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	Method Blank	Client:	Puget Environmental
Date Received:	Not Applicable	Project:	Brown, F&BI 108128
Date Extracted:	08/09/21	Lab ID:	01-1824 mb 1/5
Date Analyzed:	08/09/21	Data File:	080909.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	39	24	111
Phenol-d6	59	37	116
Nitrobenzene-d5	52	38	117
2-Fluorobiphenyl	59	45	117
2,4,6-Tribromophenol	73	11	158
Terphenyl-d14	95	50	124

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.01
2-Methylnaphthalene	<0.01
1-Methylnaphthalene	<0.01
Acenaphthylene	<0.01
Acenaphthene	<0.01
Fluorene	<0.01
Phenanthrene	<0.01
Anthracene	<0.01
Fluoranthene	<0.01
Pyrene	<0.01
Benz(a)anthracene	<0.01
Chrysene	<0.01
Benzo(a)pyrene	<0.01
Benzo(b)fluoranthene	<0.01
Benzo(k)fluoranthene	<0.01
Indeno(1,2,3-cd)pyrene	<0.01
Dibenz(a,h)anthracene	<0.01
Benzo(g,h,i)perylene	<0.01

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/18/21

Date Received: 08/09/21

Project: Brown, F&BI 108128

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

Laboratory Code: 108111-01 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Gasoline	mg/kg (ppm)	<5	<5	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	mg/kg (ppm)	20	120	71-131

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/18/21

Date Received: 08/09/21

Project: Brown, F&BI 108128

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

Laboratory Code: 108113-02 (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	94	97	73-135	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	96	74-139

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/18/21

Date Received: 08/09/21

Project: Brown, F&BI 108128

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

Laboratory Code: 108060-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/kg (ppm)	10	10.6	94	78	75-125	19
Cadmium	mg/kg (ppm)	10	<1	100	103	75-125	3
Chromium	mg/kg (ppm)	50	7.59	88	90	75-125	2
Lead	mg/kg (ppm)	50	12.5	90 b	148 b	75-125	49 b
Mercury	mg/kg (ppm)	5	<1	98	101	75-125	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/kg (ppm)	10	85	80-120
Cadmium	mg/kg (ppm)	10	96	80-120
Chromium	mg/kg (ppm)	50	99	80-120
Lead	mg/kg (ppm)	50	92	80-120
Mercury	mg/kg (ppm)	5	101	80-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/18/21

Date Received: 08/09/21

Project: Brown, F&BI 108128

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

Laboratory Code: 108113-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	1	<0.05	53	52	10-138	2
Chloroethane	mg/kg (ppm)	1	<0.5	66	66	10-176	0
1,1-Dichloroethene	mg/kg (ppm)	1	<0.05	67	66	10-160	2
trans-1,2-Dichloroethene	mg/kg (ppm)	1	<0.05	77	76	14-137	1
1,1-Dichloroethane	mg/kg (ppm)	1	<0.05	79	79	19-140	0
cis-1,2-Dichloroethene	mg/kg (ppm)	1	<0.05	90	85	25-135	6
1,2-Dichloroethane (EDC)	mg/kg (ppm)	1	<0.05	85	81	12-160	5
1,1,1-Trichloroethane	mg/kg (ppm)	1	<0.05	83	83	10-156	0
Benzene	mg/kg (ppm)	1	<0.03	82	81	29-129	1
Trichloroethene	mg/kg (ppm)	1	<0.02	81	81	21-139	0
Toluene	mg/kg (ppm)	1	<0.05	83	80	35-130	4
Tetrachloroethene	mg/kg (ppm)	1	<0.025	89	83	20-133	7
Ethylbenzene	mg/kg (ppm)	1	<0.05	85	81	32-137	5
m,p-Xylene	mg/kg (ppm)	2	<0.1	88	84	34-136	5
o-Xylene	mg/kg (ppm)	1	<0.05	85	83	33-134	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	1	82	22-139
Chloroethane	mg/kg (ppm)	1	84	9-163
1,1-Dichloroethene	mg/kg (ppm)	1	94	47-128
trans-1,2-Dichloroethene	mg/kg (ppm)	1	101	67-129
1,1-Dichloroethane	mg/kg (ppm)	1	98	68-115
cis-1,2-Dichloroethene	mg/kg (ppm)	1	109	72-127
1,2-Dichloroethane (EDC)	mg/kg (ppm)	1	102	56-135
1,1,1-Trichloroethane	mg/kg (ppm)	1	104	62-131
Benzene	mg/kg (ppm)	1	100	71-118
Trichloroethene	mg/kg (ppm)	1	100	63-121
Toluene	mg/kg (ppm)	1	100	66-126
Tetrachloroethene	mg/kg (ppm)	1	107	72-114
Ethylbenzene	mg/kg (ppm)	1	100	64-123
m,p-Xylene	mg/kg (ppm)	2	103	78-122
o-Xylene	mg/kg (ppm)	1	103	77-124

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/18/21

Date Received: 08/09/21

Project: Brown, F&BI 108128

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

Laboratory Code: 108110-01 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	69	69	34-118	0
2-Methylnaphthalene	mg/kg (ppm)	0.83	<0.01	77	77	29-130	0
1-Methylnaphthalene	mg/kg (ppm)	0.83	<0.01	77	78	37-119	1
Acenaphthylene	mg/kg (ppm)	0.83	<0.01	78	80	45-128	3
Acenaphthene	mg/kg (ppm)	0.83	<0.01	75	77	36-125	3
Fluorene	mg/kg (ppm)	0.83	<0.01	81	85	48-121	5
Phenanthrene	mg/kg (ppm)	0.83	<0.01	81	86	50-150	6
Anthracene	mg/kg (ppm)	0.83	<0.01	85	89	50-150	5
Fluoranthene	mg/kg (ppm)	0.83	<0.01	91	98	50-150	7
Pyrene	mg/kg (ppm)	0.83	<0.01	84	89	50-150	6
Benz(a)anthracene	mg/kg (ppm)	0.83	<0.01	88	94	50-150	7
Chrysene	mg/kg (ppm)	0.83	<0.01	87	93	50-150	7
Benzo(a)pyrene	mg/kg (ppm)	0.83	<0.01	89	95	50-150	7
Benzo(b)fluoranthene	mg/kg (ppm)	0.83	<0.01	87	93	50-150	7
Benzo(k)fluoranthene	mg/kg (ppm)	0.83	<0.01	89	97	50-150	9
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.83	<0.01	84	87	41-134	4
Dibenz(a,h)anthracene	mg/kg (ppm)	0.83	<0.01	87	89	44-130	2
Benzo(g,h,i)perylene	mg/kg (ppm)	0.83	<0.01	80	81	33-131	1

Laboratory Code: Laboratory Control Sample 1/5

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Naphthalene	mg/kg (ppm)	0.83	61	58-108
2-Methylnaphthalene	mg/kg (ppm)	0.83	72	67-108
1-Methylnaphthalene	mg/kg (ppm)	0.83	73	66-107
Acenaphthylene	mg/kg (ppm)	0.83	79	70-130
Acenaphthene	mg/kg (ppm)	0.83	76	66-112
Fluorene	mg/kg (ppm)	0.83	85	67-117
Phenanthrene	mg/kg (ppm)	0.83	85	70-130
Anthracene	mg/kg (ppm)	0.83	88	70-130
Fluoranthene	mg/kg (ppm)	0.83	93	70-130
Pyrene	mg/kg (ppm)	0.83	92	70-130
Benz(a)anthracene	mg/kg (ppm)	0.83	93	70-130
Chrysene	mg/kg (ppm)	0.83	95	70-130
Benzo(a)pyrene	mg/kg (ppm)	0.83	92	68-120
Benzo(b)fluoranthene	mg/kg (ppm)	0.83	90	69-125
Benzo(k)fluoranthene	mg/kg (ppm)	0.83	94	70-130
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.83	99	67-129
Dibenz(a,h)anthracene	mg/kg (ppm)	0.83	99	67-128
Benzo(g,h,i)perylene	mg/kg (ppm)	0.83	94	64-127

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 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.

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.

Page # 1 of 2

TURNAROUND TIME

☒ Standard turnaround

☐ RUSH _____

Rush charges authorized by: _____

²

SAMPLE DISPOSAL



☐ Archive samples

☐ Other _____

Default: Dispose after 30 days

[illegible]

Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
	John Meyer	Paget	8/9/21	13:19
Received by: 	Omar Khan	FEET	8/9/21	13:19
Relinquished by:				
Received by:				



Fremont
Analytical

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Friedman & Bruya
Michael Erdahl
3012 16th Ave. W.
Seattle, WA 98119

RE: 108128
Work Order Number: 2108214

August 17, 2021

Attention Michael Erdahl:

Fremont Analytical, Inc. received 1 sample(s) on 8/16/2021 for the analyses presented in the following report.

Hexavalent Chromium by EPA Method 7196

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*

Original

www.fremontanalytical.com

CLIENT: Friedman & Bruya
Project: 108128
Work Order: 2108214

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2108214-001	S-3	08/09/2021 12:00 AM	08/16/2021 12:43 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Friedman & Bruya
Project: 108128

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Notations:

Due to low sample volume, percent moisture was not determined at FAI. The dry weight percentage provided by client was used for dry weight correction.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Analytical Report

Work Order: 2108214
Date Reported: 8/17/2021

Client: Friedman & Bruya

Collection Date: 8/9/2021

Project: 108128

Lab ID: 2108214-001

Matrix: Soil

Client Sample ID: S-3

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

Hexavalent Chromium by EPA Method 7196

Batch ID: 33369

Analyst: CH

Chromium, Hexavalent

ND

0.497

mg/Kg-dry

1

8/17/2021 9:52:00 AM



Work Order: 2108214
CLIENT: Friedman & Bruya
Project: 108128

QC SUMMARY REPORT

Hexavalent Chromium by EPA Method 7196

Sample ID: MB-33369	SampType: MBLK	Units: mg/Kg	Prep Date: 8/16/2021	RunNo: 69280							
Client ID: MBLKS	Batch ID: 33369		Analysis Date: 8/17/2021	SeqNo: 1403430							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	ND	0.500									

Sample ID: LCS-33369		SampType: LCS		Units: mg/Kg		Prep Date: 8/16/2021		RunNo: 69280			
Client ID: LCSS		Batch ID: 33369				Analysis Date: 8/17/2021		SeqNo: 1403431			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	2.54	0.500	2.500	0	101	86.5	114				

Sample ID: LCSD-33369	SampType: LCS	Units: mg/Kg				Prep Date: 8/16/2021			RunNo: 69280		
Client ID: LCSS	Batch ID: 33369					Analysis Date: 8/17/2021			SeqNo: 1403432		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	2.53	0.500	2.500	0	101	86.5	114				

Client Name: **FB**
 Logged by: **Gabrielle Coeuille**

Work Order Number: **2108214**
 Date Received: **8/16/2021 12:43:47 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes ☒ No ☐ NA ☐
 4. Shipping container/cooler in good condition? Yes ☒ No ☐
 5. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒
 6. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
 7. Were all items received at a temperature of >2°C to 6°C * Yes ☒ No ☐ NA ☐
 8. Sample(s) in proper container(s)? Yes ☒ No ☐
 9. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
 10. Are samples properly preserved? Yes ☒ No ☐
 11. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
 12. Is there headspace in the VOA vials? Yes ☐ No ☐ NA ☒
 13. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
 14. Does paperwork match bottle labels? Yes ☒ No ☐
 15. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
 16. Is it clear what analyses were requested? Yes ☒ No ☐
 17. Were all holding times able to be met? Yes ☒ No ☐

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C
Sample 1	4.0

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

2408244

1000

TURNAROUND TIME

~~Standard TAT~~
X RUSH 24hr

Rush charges authorized by:

SAMPLE DISPOSAL

- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

TURNAROUND TIME

~~Standard TAT~~
RUSH 24 hr

Rush charges authorized by:
ME

SAMPLE DISPOSAL

☐ Dispose after 30 days

☐ Return samples

☐ Will call with instructions

TIME

1027

1743

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

August 19, 2021

John Meyer, Project Manager
Puget Environmental
4616 25th Avenue NE, Suite 143
Seattle, WA 98105

Dear Mr Meyer:

Included are the results from the testing of material submitted on August 17, 2021 from the Brown, F&BI 108264 project. There are 3 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: Sarah Meyer
PGT0819R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/19/21
Date Received: 08/17/21
Project: Brown, F&BI 108264
Date Extracted: 08/17/21
Date Analyzed: 08/17/21

**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	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 48-168)
EXS-2 108264-01	340 x	1,400	94
EXW-2 108264-02	<50	<250	94
EXN-2 108264-03	<50	<250	94
EXE-2 108264-04	<50	<250	91
EXB-2.5 108264-05	770 x	3,100	97
Method Blank 01-1891 MB	<50	<250	95

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/19/21

Date Received: 08/17/21

Project: Brown, F&BI 108264

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

Laboratory Code: 108259-02 (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	95	98	73-135	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	96	74-139

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 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.

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.

SAMPLERS (signature)

PROJECT NAME

PO#

REMARKS

INVOICE TO

☐ Standard turnaround
☐ RUSH _____
Rush charges authorized by _____

SAMPLE DISPOSAL

☐ Archive samples☐ Other

Default: Dispose after 30 days

108264
Report To John Walker
Company Wayne Enterprises
Address _____
City, State, ZIP _____
Phone _____ Email _____

<p>1/16/02 Project specific RIs? - Yes / No</p>	<p>1/16/02</p>
---	----------------

ANALYSES REQUESTED

[illegible]

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

~~SIGNATURE~~

PRINT NAME

COMPANY

DATE _____

TIME

Relinquished by

Received by:

YOUNG & RUBICAM
John Rubic
Will R. Adkins

165 / F.S.B.I.

8/17/21

13:58

Relinquished by:

Received by:

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

August 26, 2021

John Meyer, Project Manager
Puget Environmental
4616 25th Avenue NE, Suite 143
Seattle, WA 98105

Dear Mr Meyer:

Included are the results from the testing of material submitted on August 24, 2021 from the Brown, F&BI 108378 project. There are 6 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: Sarah Meyer
PGT0826R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/26/21
Date Received: 08/24/21
Project: Brown, F&BI 108378
Date Extracted: 08/24/21
Date Analyzed: 08/24/21

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
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>Motor Oil Range</u> (C ₂₅ -C ₃₆)	Surrogate <u>(% Recovery)</u> (Limit 48-168)
EXB2-4 108378-02	<50	<250	94
Method Blank 01-1978 MB	<50	<250	99

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	S1-2	Client:	Puget Environmental
Date Received:	08/24/21	Project:	Brown, F&BI 108378
Date Extracted:	08/25/21	Lab ID:	108378-01
Date Analyzed:	08/25/21	Data File:	108378-01.038
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Cadmium	1.17
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	Puget Environmental
Date Received:	NA	Project:	Brown, F&BI 108378
Date Extracted:	08/25/21	Lab ID:	I1-523 mb2
Date Analyzed:	08/25/21	Data File:	I1-523 mb2.037
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Cadmium	<1
---------	----

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/26/21

Date Received: 08/24/21

Project: Brown, F&BI 108378

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

Laboratory Code: 108362-01 (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	56,000	61 b	15 b	73-135	121 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	108	74-139

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/26/21

Date Received: 08/24/21

Project: Brown, F&BI 108378

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

Laboratory Code: 108344-01 x5 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Cadmium	mg/kg (ppm)	10	<5	100	102	75-125	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Cadmium	mg/kg (ppm)	10	97	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.

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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.

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

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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.

KL,

Turnaround time _____
 Rush charges authorized by: _____
 Sample disposal
☐ Archive samples
☐ Other _____
 Default: Dispose after 30 days

[illegible]

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

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <i>John Meyer</i>	John Meyer	Target Environmental	8/24/21	15:00
Received by: <i>Will Raddard</i>	Will Raddard	F&B I	8/24/21	15:00
Relinquished by:				
Received by:				

SITE REGIONAL DISPOSAL INTERMODAL 425-977-4127
3rd and lander Seattle, WA

CUSTOMER 333474

Puget Environmental PLLC
4616 25th Ave. NE #143
Seattle, WA 98105

Contract:TP-17202 PO:Derek Creisler

SITE 01	TICKET # 999382	CELL
WEIGHMASTER		
DATE/TIME IN	8/24/21 4:04 pm	DATE/TIME OUT
VEHICLE	SOIL	CONTAINER
REFERENCE	3500 CHEV	
BILL OF LADING	TERP	

SCALE IN GROSS WEIGHT 10,900 NET TONS 1.06
SCALE OUT TARE WEIGHT 8,780 NET WEIGHT 2,120

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
1.06	tn	SW-CONT W/FUEL Origin:PUYALLUP/PIER 100A				
Signature						

NET AMOUNT

TENDERED

CHANGE

CHECK#

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

RS-F042UPR (07/12)

SIGNATURE

SITE REGIONAL DISPOSAL INTERMODAL 425-977-4127
3rd and lander -Seattle, WA

CUSTOMER 333474

Puget Environmental PLLC
4616 25th Ave. NE #143
Seattle, WA 98105

Contract:TB-17202 PO:Derek Creisler

SITE 01	TICKET # 999382	CELL
WEIGHMASTER Clayton M.		
DATE/TIME IN	8/24/21 4:04 pm	DATE/TIME OUT
VEHICLE	SOIL	CONTAINER
REFERENCE	3500 CHEV	
BILL OF LADING	TERP	

SCALE IN GROSS WEIGHT 10,900 NET TONS 1.06
SCALE OUT TARE WEIGHT 8,780 NET WEIGHT 2,120

INBOUND
INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
1.06	tn	SW-CONT W/FUEL Origin:PUYALLUP/PIER 100A				
Signature						

NET AMOUNT

TENDERED

CHANGE

CHECK#

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

RS-F042UPR (07/12)

SIGNATURE