

Underground Storage Tank Decommissioning and Cleanup Action Report

**Tim's Bike Shop
2401 Broadway Avenue
Everett, Washington**

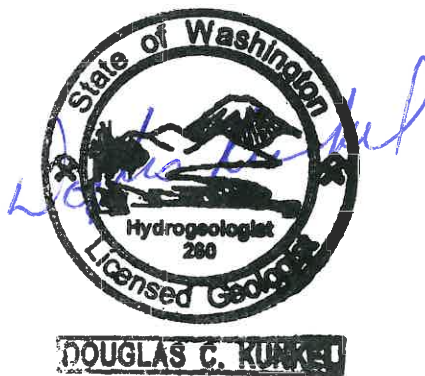
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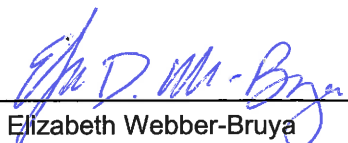
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Attachment A	Ecology Forms and Notices
Attachment B	UST Removal Documentation
Attachment C	Copies of Original Analytical Laboratory Reports

ABBREVIATIONS AND ACRONYMS

Abbreviation/

Acronym

Definition

BTEX	Benzene, toluene, ethylbenzene, xylenes
COC	Contaminant of concern
CUL	Cleanup level
Ecology	Washington State Department of Ecology
EPA	U.S. Environmental Protection Agency
EPI	Environmental Partners, Inc.
GRO	Gasoline-range organics
JSLT	John L. Smevaag Living Trust
mg/kg	Milligrams per kilogram
MTCA	Model Toxics Control Act
NWTPH-Gx	Northwest Total Petroleum Hydrocarbons as gasoline
PCS	Petroleum contaminated soil
UST	Underground storage tank
WAC	Washington Administrative Code

1.0 INTRODUCTION

Environmental Partners, Inc. (EPI) is please to present this *Underground Storage Tank Decommissioning and Cleanup Action Report* for the Tim's Bike Shop property located at 2401 Broadway Avenue in Everett, Washington (subject property). The general location of the subject property is indicated on Figure 1. The subject property is currently owned by John L. Smevaag Living Trust (JSLT).

1.1 Site and Vicinity Description

The work presented herein was performed on behalf of JSLT to properly document the removal of three underground storage tanks (USTs) historically used for gasoline storage as part of retail fuel sales. This report is intended to meet the reporting requirements of Washington Administrative Code (WAC) 173-340-300 and to document compliance with the WAC 173-430-450 for USTs.

The subject property is located in a commercial area of the City of Everett and is bounded to the north by 24th Street with Alf's Pizza restaurant beyond; to the west by Broadway Avenue; to the south by Tim's Hobby shop; and to the east by an unnamed alleyway with Bagshaw Playfield beyond.

At the time of UST decommissioning, the facility was an asphalt-covered parking lot adjacent to Tim's Bike Shop. There were three, approximately 1,000-gallon gasoline USTs located on the property. The locations of the three USTs are indicated on Figure 2.

1.2 Underground Utility Locates

Prior to performing subsurface work EPI performed a public and private utility locate at the subject property to identify and mark conductible and non-conductible subsurface utilities. The One-Call ticket number for the public utility locate is 16083208.

Underground utilities were identified north of the property underneath 24th Street, and west of the property underneath Broadway Avenue. An inactive natural gas line was identified and removed immediately north of the property during excavation near the sidewalk between the subject property and 24th Street. Prior to removal, Puget Sound Energy (PSE) inspected the line during excavation and determined that it was inactive and did not contain residual natural gas. Approximately 40 feet of the inactive natural gas line was removed during excavation. A Century Link fiber optic line was identified beneath the sidewalk between 24th Street and the north property boundary of the subject property. Approximate subsurface utility locations are shown on Figure 2.

1.3 Contaminants of Concern

The contaminants of concern (COCs) for the subject property are based on historical records indicating that the property was historically used as a gasoline retail store. COCs for the subject property are gasoline-range organics (GRO), benzene, toluene, ethylbenzene, and total xylenes (BTEX). Lead was identified as a potential COC but initial soil sampling results for lead indicated that only background concentrations of naturally-occurring lead were present in soil at the subject property.

2.0 OBJECTIVES

The objectives of the work documented in this report are provided below:

- Document the decommissioning, excavation, and removal of three individual single wall steel, 1,000-gallon USTs formerly containing gasoline;
- Document the removal of product piping and other ancillary equipment;
- Document follow-on petroleum contaminated soil (PCS) excavation activities; and
- Document the findings of the UST closure and assessment activities in this report.

3.0 UST SYSTEM REMOVAL

This section describes the UST area and the decommissioning and removal activities that were performed to properly decommission three single wall steel USTs at 2401 Broadway Ave. in Everett Washington.

3.1 UST Area Description

The UST area was located in the asphalt-paved parking area immediately west of Tim's Bike Shop. The UST pit contained three approximately 1,000-gallon USTs constructed of single walled steel. All three USTs were 4-feet in diameter and 10-feet long and had significant corrosion and full thickness perforations. Steel product piping was connected to UST 1 and portions of that piping exhibited significant corrosion. An inactive electrical line crossed the UST area and was likely historically connected to the former dispenser island and service station sign. Product piping to UST 2 and 3 was not present and was likely removed as part of UST closure in place, which was reportedly performed on two of the USTs in the 1980s. The configuration of USTs, product piping, and nearby subsurface utilities at the subject property are indicated on Figure 2.

3.2 Background

Historical records provided by a title search indicate that Shell Oil Company (Shell) entered into a lease to operate a gasoline service station on the subject property in February 1929. Shell's gasoline service station operations continued at the subject property until 1952 when the subject property was sold to Kenneth and Ethel Alkire, and the lease with Shell was terminated.

According to the limited documentation on Ecology's UST database, the subject property contained two USTs of unknown age and unknown volume. Ecology's information was provided in a questionnaire that was completed by the subject property owner in 1988. At the time that the Ecology questionnaire was completed, only two UST fill caps were exposed on the paved surface and the presence of a third UST was not known. The USTs reportedly contained only gasoline throughout their operational history and EPI understands that diesel fuel was not stored in any of the USTs used on the subject property.

Sometime after 1999 the subject property became Tim's Bike Shop, which is the current tenant.

3.3 UST System Removal

EPI was retained by JSLT to serve as the on-site UST assessor during the removal of the USTs. Mr. Josh Bernthal, PE (Washington State Professional Engineer License No. 41502) and Mr. Eric Caddey (UST Site Assessor #1073547-U7) of EPI performed the UST assessment activities. Clearcreek Contractors of Marysville, Washington were retained by JSLT to perform the UST system decommissioning, UST removal activities, and excavation, transport, and disposal of PCS.

Prior to UST decommissioning and removal, EPI submitted the required *Underground Storage Tank 30-Day Notice* to Ecology and provided Ecology with a proposed schedule for the UST decommissioning and removal actions. Completed Ecology *Underground Storage Tank Permanent Closure Notice*, *Site Check/Site Assessment Checklist*, and *Underground Storage Tank 30-Day Notice* forms are included in Attachment A.

Prior to removal, each UST was triple-rinsed by Emerald Services Inc. (Emerald) generating a total of 1,597 gallons of rinsate. Copies of Emerald's pump and rise and cleaning certificates and the bill of lading for disposal of the rinsate are included in Attachment B. The USTs were then inerted with dry ice by Clearcreek. Northwest Marine Chemist, Inc., tested each of the USTs for vapors and certified that the USTs were safe for removal. A copy of Northwest Marine Chemist's certification is provided in Attachment B. A Fire Marshal for Everett Fire Department was also on-site and gave final approval for removal of the USTs. A copy of the Everett Fire Department permit is provided in Attachment B.

All three 1,000-gallon USTs were constructed of single wall mild steel and contained significant areas of surface corrosion as well as full thickness perforations caused by corrosion. Product piping was also constructed of mild steel and had similar levels of corrosion. Staining, odors, and free product were noted in the UST excavation indicating historical releases of product from the USTs. Dispenser islands were not present and the subject property was re-paved at some point after their removal so their specific former location is unknown but would be within the limits of the final excavation.

The USTs and product piping were removed from the excavation by Clearcreek on June 23, 2016. Clearcreek removed all three USTs and transported them on flat-bed trailers for offsite disposal. A copy of the UST Destruction Certificate is included in Attachment B.

Subsurface conditions consisted of silty sand (SM - Unified Soil Classification System), likely representing fill material. The silty sand is underlain by silt (ML - Unified Soil Classification System), which was encountered at approximately 5-7 ft. bgs throughout the southern half of the excavation but was deeper in the northeast corner of the UST excavation. The silt layer served to limit the downward migration of soil impacts to approximately 10 ft. bgs in the southern half of the UST excavation, with deeper soil impacts noted in the northeast corner where the top of silt was encountered at a greater depth. Groundwater was not encountered in the excavation and therefore, was not sampled as part of this UST decommissioning and PCS excavation.

3.4 Assessment Soil Sampling

Soil sampling at the UST excavation was initiated on June 16, 2016 and was completed on July 14, 2016. During that time EPI collected a total of 51 discrete soil samples to document the UST decommissioning and PCS removal. Sample locations, with the exception of the three soil stockpile samples, are depicted on Figure 3. The soil samples collected as part of this project consist of the following four sample types:

- 26 sidewall samples from depths ranging from 5 to 8 ft. below ground surface (bgs);
- 14 bottom samples from depths ranging from 9.5 to 17.5 ft. bgs;
- 7 hand auger samples at a depth of 7 ft. bgs. These samples were performed to evaluate the likely final extent of the UST excavation for planning purposes. One hand auger sample was later used as a sidewall sample when the excavation was extended to its location; and
- 3 soil stockpile samples.

Due to the depth of the UST excavation, soil samples were collected from the excavator bucket. The top 6 inches of slough was first removed, and then the sample was collected directly from the underlying undisturbed material. Three discrete stockpile samples were collected directly from the stockpile after removing the top 6 inches of slough. Due to the small size of the subject property stockpiling soil was not practical after the first day of excavation and direct loading of excavated soil was performed for the remainder of the project.

Sidewall and bottom soil samples were collected from undisturbed soil at the depth of impacted soil as evaluated by field screening. Field screening consisted of headspace measurements using a photoionization detector (PID), sheen testing, and visual and olfactory indicators. Soil sampling locations are indicated on Figure 3.

All samples were collected using Environmental Protection Agency (EPA) Method 5035 in sampling kits supplied by the laboratory to reduce volatile loss. Non-disposable sampling tools were properly decontaminated prior to each use and between each sampling location. Each sample was placed into glass VOA jars supplied by the analytical laboratory. Sample containers were properly labelled and submitted to Friedman & Bruya Inc., located at 3012 16h Ave. West in Seattle, Washington, for analysis for GRO using the Northwest Total Petroleum Hydrocarbons as gasoline (NWTPH-Gx) Method, and BTEX using U.S. Environmental Protection Agency (EPA) Method 8021B. Three excavation and one soil stockpile sample were analyzed for total lead by EPA Method 200.8. All samples were run using 24-hour turnaround times so that the resulting data could be evaluated the following morning and used to guide and plan daily excavation work at the subject property.

3.5 Assessment Soil Analytical Results

A summary of soil sample analytical results is included in Table 1. Soil stockpile sample analytical results are presented in Table 2. Copies of the original laboratory data reports are presented in Attachment C.

Due to the age of the USTs it was likely that leaded gasoline was historically stored in one or more of the USTs. Three excavation samples and one soil stockpile sample were tested for total lead and had concentrations ranging from 9.13 mg/kg to 9.68 mg/kg. All total lead concentrations are significantly less than the MTCA Method A Cleanup Level (CUL) of 250 mg/kg and the narrow range of concentrations suggest that the concentrations represent natural background levels of lead. No additional total lead analyses were run based on these data.

Benzene was detected at concentrations greater than its MTCA Method A CUL in six samples collected from the UST excavation. Due to the presence of benzene, the lower MTCA Method A CUL for GRO of 30 mg/kg was the appropriate cleanup goal for the UST excavation rather than the 100 mg/kg CUL, which is appropriate for GRO with no benzene present. Other BTEX compounds were detected in some of the sidewall and bottom samples but all detections were at concentrations less than their applicable MTCA Method A CULs.

The petroleum product that impacted soil at the subject property was weathered gasoline, which was difficult to reliably field screen. Approximately half of the bottom and sidewall samples collected had exceedances of GRO or BTEX compounds, which triggered additional excavation and performance sampling as necessary to achieve MTCA Method A CULs in sidewall and bottom samples.

Table 1 summarizes all samples collected from the UST excavation and identifies if a sample is a Confirmation Sample (see second column in Table 1). With one exception (bottom sample EX-B11:15.5), if a sample has a CUL exceedance it is not a confirmation sample and additional excavation was performed. The specific confirmation sample that was collected to replace the original sample with a CUL exceedance is identified in the second column of Table 1. Table 3 provides a summary of bottom and sidewall confirmation samples only for easier reference to analytical results for the final excavation dimensions.

As noted in the previous paragraph, one confirmation sample, EX-B11:15.5, taken from the bottom of the UST pit contained benzene concentrations of 0.039 mg/kg. The MTCA Method A Soil CUL for benzene is 0.030 mg/kg. Because this sample represents less than 10% of the final samples and is less than twice the cleanup level, cleanup objectives under MTCA were statistically met in the UST excavation at the subject property. All other Confirmation Samples have constituents that were non-detect or were detected at concentrations less than the MTCA Method A Soil CULs. The locations of the final bottom confirmation samples are indicated on Figure 4. Locations of the final sidewall confirmation samples are indicated on Figure 5.

4.0 CONCLUSIONS

The following conclusions are supported by the analytical data and the remediation actions performed at the Site as described above:

- A total of three 1,000-gallon single wall steel USTs formerly containing gasoline were decommissioned and removed from the subject property. The USTs and the product piping connected to the USTs had significant surface corrosion and several full thickness perforations.

- Indications of the historical product releases were observed in the native soils below the USTs and in the apparent fill soils surrounding the three USTs. These impacts are likely a result of releases from the observed full thickness perforations in the USTs and product piping. Initial laboratory analysis of samples collected during the first day of excavation confirmed that there were impacts to soil in the UST area.
- Groundwater was not encountered in the UST excavation.
- Performance sampling with quick laboratory turnaround times was conducted to guide the UST excavation work performed at the subject property. With one exception, performance sidewall and bottom soil samples that meet MTCA Method A CULs were used as the final confirmation samples for the UST excavation. The bottom and sidewall confirmation sample analytical results are summarized in Table 3.
- Bottom sample EX-B11:15.5 was non-detect for GRO but had a benzene concentration of 0.039 mg/kg, which slightly exceeds its MTCA Method A CUL of 0.030 mg/kg. Statistical analysis of the confirmation sample data set indicates that this single exceedance is less than 10% of the confirmation sample data and the benzene concentration is less than two times its applicable MTCA Method A CUL.

5.0 LIMITATIONS

To the extent that preparation of this UST Decommissioning and Cleanup Action Report has required the application of best professional judgment and the application of scientific principles, certain results of this work have been based on subjective interpretation. EPI makes no warranties express or implied, including and without limitation, warranties as to merchantability or fitness for a particular purpose. The information provided in this UST Removal Report is not to be construed as legal advice.

This UST Removal Report was prepared solely for JSLT, and the contents herein may not be used or relied upon by any other person without the express written consent and authorization of EPI.

Tables

Table 1
All Bottom and Sidewall Soil Sample Analytical Results (mg/kg)
UST Decommissioning and Cleanup Action Report
Tim's Bike Shop, 2401 Broadway, Everett, Washington

Sample ID	Confirmation Sample?	Sample Type	Sample Depth (feet)	Sample Date	GRO ^a	Benzene ^b	Toluene ^b	Ethyl-benzene ^b	Total Xylenes ^b	Lead ^c
UST1-B:10'	Yes	Bottom	10	6/16/16	<2	<0.02	<0.02	<0.02	<0.06	9.52
USTEX-WSW:6'	Yes	Sidewall	6	6/16/16	<2	<0.02	<0.02	<0.02	<0.06	--
UST2-B:10'	Yes	Bottom	10	6/17/16	<2	<0.02	<0.02	<0.02	<0.06	9.68
UST3-B:10'	Yes	Bottom	10	6/17/16	3.5	<0.02	<0.02	0.036	<0.06	9.13
USTEX-SSW:6.5'	No, replaced by USTEX-SSW2:6.5	Sidewall	6.5	6/21/16	33	<0.02	0.034	0.083	0.16	--
USTEX-ESW:6.5'	No, replaced by EX-SW4:7	Sidewall	6.5	6/21/16	11	<0.02	0.030	0.050	0.12	--
UST3-NSW:6'	No, replaced by EX-SW5:7	Sidewall	6	6/22/16	260	<0.02	0.42	1.3	2.2	--
UST3-ESW:5'	No, replaced by SW11:4	Sidewall	5	6/22/16	430	0.07 j	1.1	1.9	2.7	--
UST3-WSW:6'	No, replaced by SW-17:7	Sidewall	6	6/22/16	68	<0.02	<0.02	0.35	0.25	--
USTEX-NSW:5.5	No, replaced by SW-15:7	Sidewall	5.5	6/22/16	270	<0.02	0.46	1.2	2.1	--
USTEX-SSW2:6.5	Yes	Sidewall	6.5	6/23/16	<2	<0.02	<0.02	<0.02	<0.06	--
EX-SW1:7	No, replaced by EX-SW2:7.5	Sidewall	7	6/23/16	84	<0.02	<0.02	0.37	0.61	--
EX-SW2:7.5	Yes	Sidewall	7.5	6/23/16	<2	<0.02	<0.02	<0.02	<0.06	--
EX-SW3:7	Yes	Sidewall	7	6/23/16	<2	<0.02	<0.02	<0.02	<0.06	--
EX-SW4:7	Yes	Sidewall	7	6/23/16	30	<0.02	<0.02	0.11	0.2	--
EX-B1:10	Yes	Bottom	10	6/23/16	2.9	<0.02	<0.02	<0.02	<0.06	--
EX-SW5:7	No, replaced by SW-16:7	Sidewall	7	6/24/16	140	<0.02	0.068	0.70	1.3	--
EX-SW6:6.5	No, replaced by SW-15:7	Sidewall	6.5	6/24/16	270	<0.02	0.57	1.1	2.1	--
EX-SW7:7	No, replaced by SW-10:7	Sidewall	7	6/24/16	170	<0.02	<0.02	0.77	1.4	--
EX-SW8:7	No, replaced by SW-11:7	Sidewall	7	6/24/16	150	<0.02	0.22	0.66	1.2	--

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Sample ID	Confirmation Sample?	Sample Type	Sample Depth (feet)	Sample Date	GRO ^a	Benzene ^b	Toluene ^b	Ethyl-benzene ^b	Total Xylenes ^b	Lead ^c
EX-SW9:6.5	No, replaced by SW-17:7	Sidewall	6.5	6/24/16	42	<0.02	<0.02	0.045	0.11	--
EX-SW10:7	No, replaced by HA-7:7	Sidewall	7	6/24/16	58	<0.02	<0.02	0.027	0.088	--
EX-B2:9.5	Yes	Bottom	9.5	6/24/16	24	<0.02	0.11	0.30	0.34	--
EX-SW11:4	No, replaced by SW-11:7	Sidewall	4	6/24/16	260	0.05 j	0.16	0.68	1.5	--
EX-B3:12	No, replaced by EX-B7:14	Bottom	12	6/30/16	3.5	0.14	0.038	0.065	<0.06	--
HA-1:7	No, outside of excavation	Hand Auger	7	6/30/16	<2	<0.02	<0.02	<0.02	<0.06	--
HA-2:7	No, outside of excavation	Hand Auger	7	6/30/16	<2	<0.02	<0.02	<0.02	<0.06	--
HA-3:7	No, outside of excavation	Hand Auger	7	6/30/16	<2	<0.02	<0.02	<0.02	<0.06	--
HA-4:7	No, outside of excavation	Hand Auger	7	6/30/16	<2	<0.02	<0.02	<0.02	<0.06	--
HA-5:7	No, replaced by SW-16:7	Hand Auger	7	6/30/16	140	<0.02	<0.02	0.54	1.3	--
HA-6:7	No, replaced by SW-14:8	Hand Auger	7	6/30/16	52	<0.02	<0.02	0.21	0.42	--
HA-7:7	Yes	Hand Auger / Sidewall	7	6/30/16	3.4	<0.02	<0.02	<0.02	<0.06	--
SW-10:7	Yes	Sidewall	7	7/5/16	4.4	<0.02	<0.02	0.084	<0.06	--
SW-11:7	Yes	Sidewall	7	7/5/16	<2	<0.02	<0.02	<0.02	<0.06	--
EX-B5:12:5	No, replaced by EX-B7:14	Bottom	12.5	7/5/16	3.2	0.10	<0.02	<0.02	<0.06	--
EX-B6:12	No, replaced by EX-B11:15.5	Bottom	12	7/5/16	62	<0.02	<0.02	0.72	0.53	--
EX-B7:14	Yes	Bottom	14	7/13/16	<2	<0.02	<0.02	<0.02	<0.06	--
EX-B8:14	No, replaced by EX-B11:15.5	Bottom	14	7/13/16	220	0.083	0.74	1.3	4.2	--

Table 1
All Bottom and Sidewall Soil Sample Analytical Results (mg/kg)
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Tim's Bike Shop, 2401 Broadway, Everett, Washington

Sample ID	Confirmation Sample?	Sample Type	Sample Depth (feet)	Sample Date	GRO ^a	Benzene ^b	Toluene ^b	Ethyl-benzene ^b	Total Xylenes ^b	Lead ^c
SW-12:7	Yes	Sidewall	7	7/13/16	7.3	<0.02	<0.02	0.043	<0.06	--
SW-13:8	Yes	Sidewall	8	7/13/16	8.8	<0.02	<0.02	0.046	<0.06	--
SW-14:8	Yes	Sidewall	8	7/13/16	5.7	<0.02	<0.02	0.034	<0.06	--
EX-B9:12	No, replaced by EX-B10:17.5	Bottom	12	7/13/16	44	<0.02	<0.02	0.017	0.37	--
SW-15:7	Yes	Sidewall	7	7/14/16	<2	<0.02	<0.02	<0.02	<0.06	
EX-B10:17.5	Yes	Bottom	17.5	7/14/16	<2	<0.02	<0.02	<0.02	<0.06	--
EX-B11:15.5	Yes	Bottom	15.5	7/14/16	<2	0.039	<0.02	<0.02	<0.06	--
SW-16:7	Yes	Sidewall	7	7/14/16	<2	<0.02	<0.02	<0.02	<0.06	--
EX-B12:10	Yes	Bottom	10	7/14/16	<2	<0.02	<0.02	<0.02	<0.06	--
SW-17:7	Yes	Sidewall	7	7/14/16	<2	<0.02	<0.02	<0.02	<0.06	--
MTCA Method A Soil Cleanup Level for Unrestricted Land Uses^d					30/100^e	0.03	7	6	9	250

Notes:

All results presented in milligrams/kilogram (mg/kg).

Bold

Bold results indicate that the compound was detected.



Shaded cells indicate that the compound was detected at a concentration greater than the cleanup level.

a

Gasoline-range organics analyzed by NWTPH-Gx.

b

Analyzed by U.S. Environmental Protection Agency (EPA) Method 8021B.

c

Analyzed by U.S. EPA Method 200.8.

d

Model Toxics Control Act (MTCA) Method A Soil Cleanup Level of Unrestricted Land Uses taken from Table 740-1 of Washington Administrative Code Chapter 170-340-900.

e

Cleanup level equal to 30 when benzene is present; otherwise equal to 100.

--

Not analyzed.

GRO

Gasoline-range organics

Qualifiers:

j

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

Table 2
Soil Stockpile Sample Analytical Results (mg/kg)
UST Decommissioning and Cleanup Action Report
Tim's Bike Shop
2401 Broadway, Everett, Washington

Sample ID	Sample Depth (feet)	Sample Date	Final Sample?	GRO ^a	Benzene ^b	Toluene ^b	Ethyl-benzene ^b	Total Xylenes ^b	Lead ^c
SP-1	NA	6/16/16	No	120	<0.02	0.3	0.54	2.3	9.19
SP-2	NA	6/17/16	No	76	<0.02	0.36	0.43	1.9	--
SP-3	NA	6/17/16	No	3.9	<0.02	<0.02	0.062	<0.06	--
MTCA Method A Soil Cleanup Level for Unrestricted Land Uses ^d				30/100 ^e	0.03	7	6	9	250

Notes:

All results presented in milligrams/kilogram (mg/kg).

Bold

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a

Gasoline-range organics analyzed by NWTPH-Gx.

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Analyzed by U.S. Environmental Protection Agency (EPA) Method 8021B.

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Analyzed by U.S. EPA Method 200.8.

d

Model Toxics Control Act (MTCA) Method A Soil Cleanup Level of Unrestricted Land Uses taken from Table 740-1 of Washington Administrative Code Chapter 170-340-900.

e

Cleanup level equal to 30 when benzene is present; otherwise equal to 100.

--

Not analyzed.

GRO

Gasoline-range organics

Table 3
Final Bottom and Sidewall Soil Sample Analytical Results (mg/kg)
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Tim's Bike Shop, 2401 Broadway, Everett, Washington

Sample ID	Confirmation Sample?	Sample Type	Sample Depth (feet)	Sample Date	GRO ^a	Benzene ^b	Toluene ^b	Ethyl-benzene ^b	Total Xylenes ^b	Lead ^c
UST1-B:10'	Yes	Bottom	10	6/16/16	<2	<0.02	<0.02	<0.02	<0.06	9.52
USTEX-WSW:6'	Yes	Sidewall	6	6/16/16	<2	<0.02	<0.02	<0.02	<0.06	--
UST2-B:10'	Yes	Bottom	10	6/17/16	<2	<0.02	<0.02	<0.02	<0.06	9.68
UST3-B:10'	Yes	Bottom	10	6/17/16	3.5	<0.02	<0.02	0.036	<0.06	9.13
USTEX-SSW2:6.5	Yes	Sidewall	6.5	6/23/16	<2	<0.02	<0.02	<0.02	<0.06	--
EX-SW2:7.5	Yes	Sidewall	7.5	6/23/16	<2	<0.02	<0.02	<0.02	<0.06	--
EX-SW3:7	Yes	Sidewall	7	6/23/16	<2	<0.02	<0.02	<0.02	<0.06	--
EX-SW4:7	Yes	Sidewall	7	6/23/16	30	<0.02	<0.02	0.11	0.2	--
EX-B1:10	Yes	Bottom	10	6/23/16	2.9	<0.02	<0.02	<0.02	<0.06	--
EX-B2:9.5	Yes	Bottom	9.5	6/24/16	24	<0.02	0.11	0.30	0.34	--
HA-7:7	Yes	Hand Auger / Sidewall	7	6/30/16	3.4	<0.02	<0.02	<0.02	<0.06	--
SW-10:7	Yes	Sidewall	7	7/5/16	4.4	<0.02	<0.02	0.084	<0.06	--
SW-11:7	Yes	Sidewall	7	7/5/16	<2	<0.02	<0.02	<0.02	<0.06	--
EX-B7:14	Yes	Bottom	14	7/13/16	<2	<0.02	<0.02	<0.02	<0.06	--
SW-12:7	Yes	Sidewall	7	7/13/16	7.3	<0.02	<0.02	0.043	<0.06	--
SW-13:8	Yes	Sidewall	8	7/13/16	8.8	<0.02	<0.02	0.046	<0.06	--
SW-14:8	Yes	Sidewall	8	7/13/16	5.7	<0.02	<0.02	0.034	<0.06	--
SW-15:7	Yes	Sidewall	7	7/14/16	<2	<0.02	<0.02	<0.02	<0.06	--
EX-B10:17.5	Yes	Bottom	17.5	7/14/16	<2	<0.02	<0.02	<0.02	<0.06	--
EX-B11:15.5	Yes	Bottom	15.5	7/14/16	<2	0.039	<0.02	<0.02	<0.06	--
SW-16:7	Yes	Sidewall	7	7/14/16	<2	<0.02	<0.02	<0.02	<0.06	--
EX-B12:10	Yes	Bottom	10	7/14/16	<2	<0.02	<0.02	<0.02	<0.06	--
SW-17:7	Yes	Sidewall	7	7/14/16	<2	<0.02	<0.02	<0.02	<0.06	--
MTCA Method A Soil Cleanup Level for Unrestricted Land Uses^d					30/100^e	0.03	7	6	9	250

Notes:

All results presented in milligrams/kilogram (mg/kg).

Bold

Bold results indicate that the compound was detected.



Shaded cells indicate that the compound was detected at a concentration greater than the cleanup level.

a

Gasoline-range organics analyzed by NWTPH-Gx.

b

Analyzed by U.S. Environmental Protection Agency (EPA) Method 8021B.

c

Analyzed by U.S. EPA Method 200.8.

d

Model Toxics Control Act (MTCA) Method A Soil Cleanup Level of Unrestricted Land Uses taken from Table 740-1 of Washington Administrative Code Chapter 170-340-900.

e

Cleanup level equal to 30 when benzene is present; otherwise equal to 100.

--

Not analyzed.

GRO

Gasoline-range organics

Figures

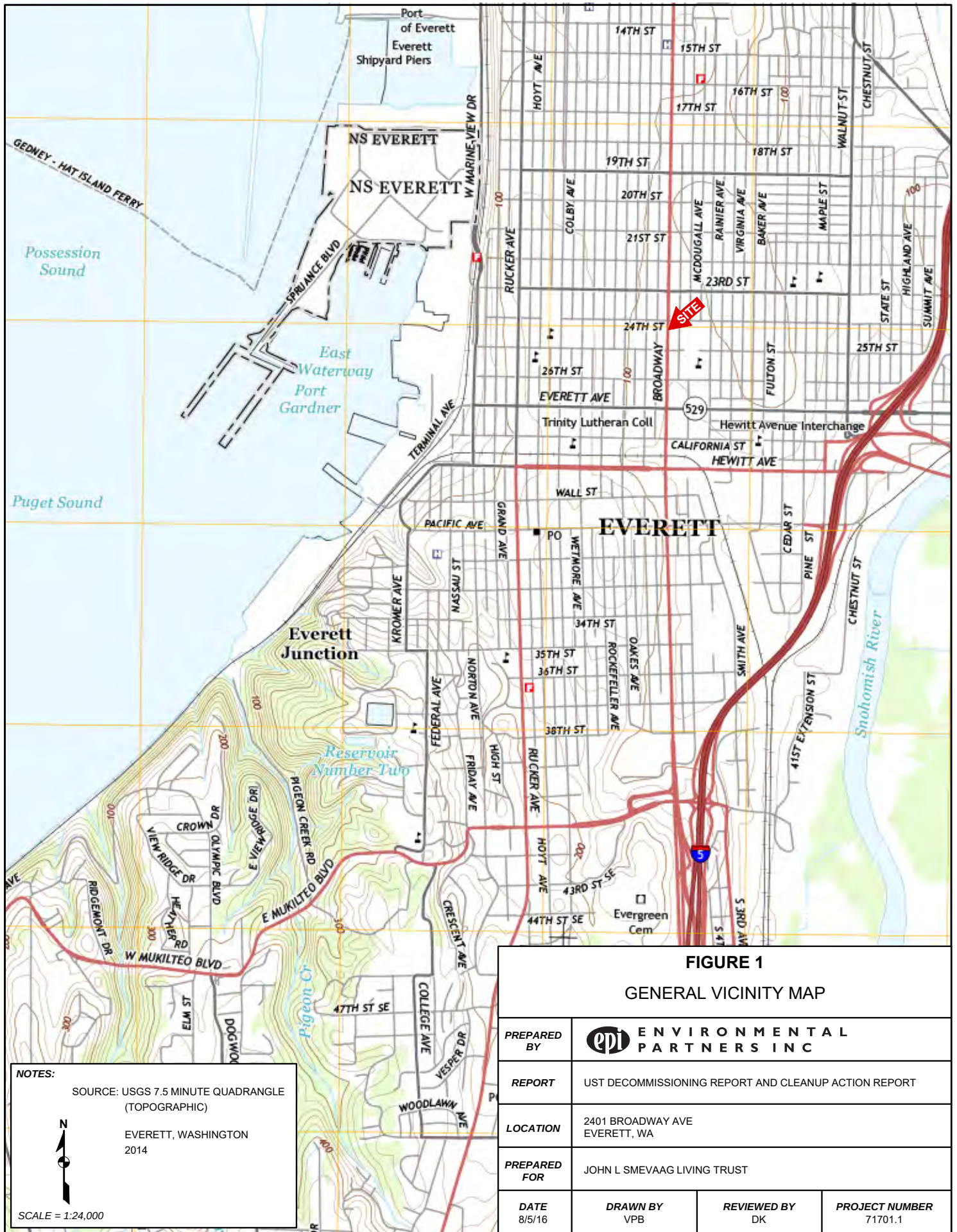
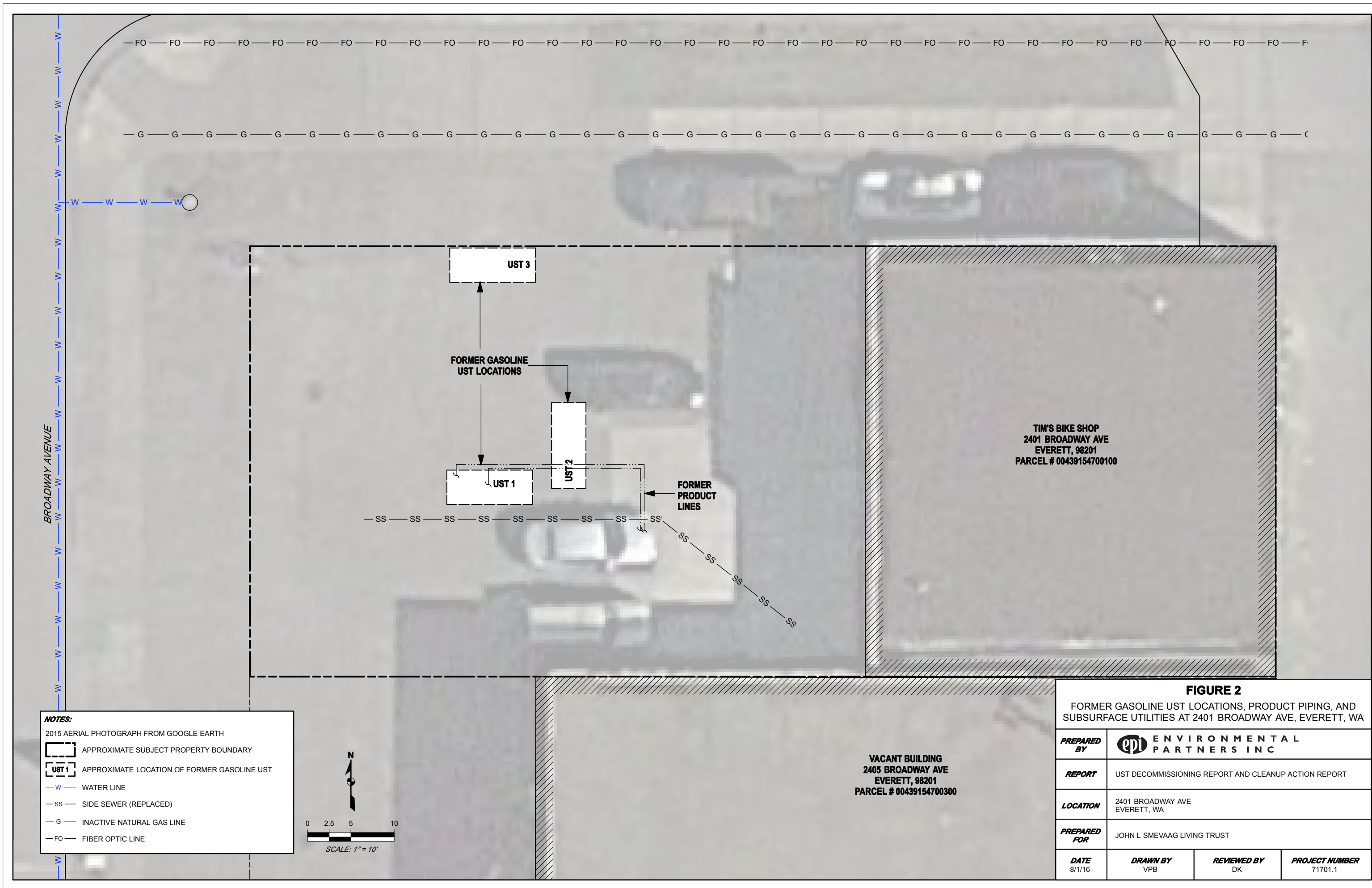


FIGURE 1

GENERAL VICINITY MAP

PREPARED BY	 ENVIRONMENTAL PARTNERS INC		
REPORT	UST DECOMMISSIONING REPORT AND CLEANUP ACTION REPORT		
LOCATION	2401 BROADWAY AVE EVERETT, WA		
PREPARED FOR	JOHN L SMEVAAG LIVING TRUST		
DATE	DRAWN BY	REVIEWED BY	PROJECT NUMBER
8/5/16	VPB	DK	71701.1



BROADWAY AVENUE

EX-B12:10

EX-B10:17.5

UST EXCAVATION
BOUNDARY
(APPROXIMATE)

EX-B11:15.5

EX-B7:14

UST3-B:10 UST 3

FORMER GASOLINE
UST LOCATIONS

EX-B2:9.5

UST2-B:10

UST 2

UST1-B:10 UST 1

EX-B1:10

TIM'S BIKE SHOP
2401 BROADWAY AVE
EVERETT, 98201
PARCEL # 00439154700100

VACANT BUILDING
2405 BROADWAY AVE
EVERETT, 98201
PARCEL # 00439154700300

NOTES:

- APPROXIMATE SUBJECT PROPERTY BOUNDARY
- UST 1 APPROXIMATE LOCATION OF FORMER GASOLINE UST
- SAMPLE LOCATION (BOTTOM)

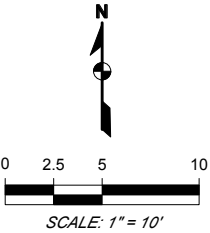
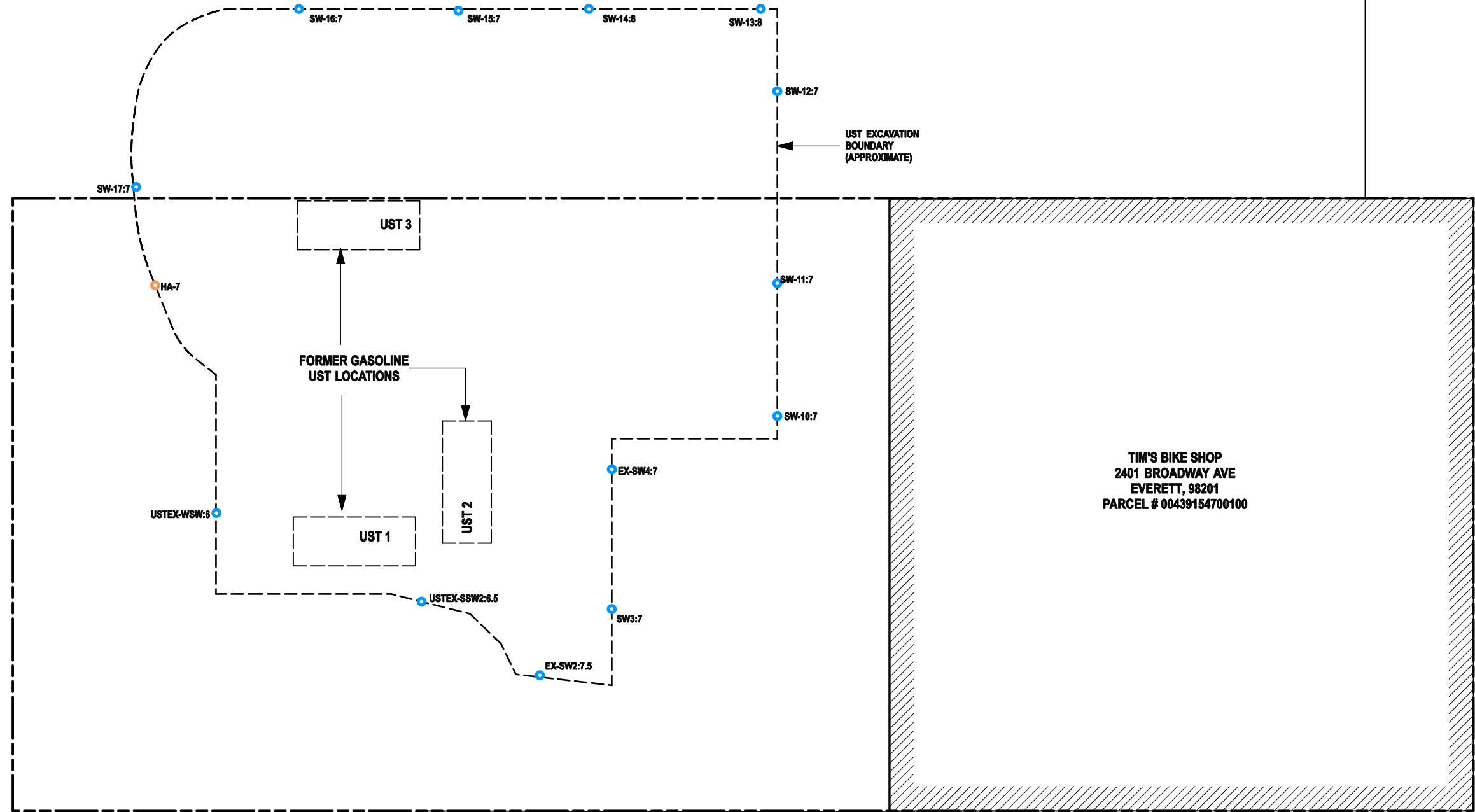


FIGURE 4
EXCAVATION BOTTOM FINAL CONFIRMATION
SAMPLE LOCATIONS

PREPARED BY	epl ENVIRONMENTAL PARTNERS INC		
REPORT	UST DECOMMISSIONING REPORT AND CLEANUP ACTION REPORT		
LOCATION	2401 BROADWAY AVE EVERETT, WA		
PREPARED FOR	JOHN L SMEVAAG LIVING TRUST		
DATE 8/5/16	DRAWN BY VPB	REVIEWED BY DK	PROJECT NUMBER 71701.1

BROADWAY AVENUE



NOTES:

- APPROXIMATE SUBJECT PROPERTY BOUNDARY
- APPROXIMATE LOCATION OF FORMER GASOLINE UST
- SAMPLE LOCATION (HAND AUGER)
- SAMPLE LOCATION (SIDEWALL)

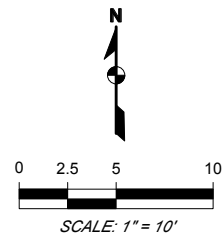


FIGURE 5 EXCAVATION SIDEWALL FINAL CONFIRMATION SAMPLE LOCATIONS			
PREPARED BY	ENVIRONMENTAL PARTNERS INC		
REPORT	UST DECOMMISSIONING REPORT AND CLEANUP ACTION REPORT		
LOCATION	2401 BROADWAY AVE EVERETT, WA		
PREPARED FOR	JOHN L SMEVAAG LIVING TRUST		
DATE 8/5/16	DRAWN BY VPB	REVIEWED BY DK	PROJECT NUMBER 71701.1

Attachment A
Ecology Forms and Notices



30-DAY NOTICE FOR UNDERGROUND STORAGE TANKS

UST ID #: _____

County: _____

This form provides Ecology 30-days' advanced notice for the following projects, as required by Chapter 173-360 WAC.

Instructions are found on the back page.

Please ✓ the appropriate box: ☐ Intent to Install ☒ Intent to Close ☐ Change-in-Service

I. SITE INFORMATION			II. OWNER/OPERATOR INFORMATION	
Tag or UBI # (if applicable):			Owner/Operator Name: Ms Debra Smevay	
UST ID # (if applicable):			Business Name: John L Smevay Living Trust	
Site Name: Marc's Auto Detail Shop			Mailing Address: 12421 23rd Ave SE	
Site Address: 2401 Broadway			City: Everett	State: WA Zip: 98208
City: Everett			Phone: (206) 972-7207	
Phone:			Email: dj.smevay@gmail.com	
III. CERTIFIED SERVICE PROVIDER(S)				
Check the appropriate boxes. If more than one service provider is required for this project, fill out both sections.				
Note: Individuals performing UST services MUST be ICC-certified or have passed another qualifying exam approved by the Department of Ecology.				
1) ☐ Installer ☐ Decommissioner ☒ Site Assessor				
Company Name: Environmental Partners Inc		Certification Type: Professional Engineer		
Service Provider Name: Josh Bernthal, PE		Cert. No.: 41502	Exp. Date: 12/06/17	
Provider Phone: 425-241-5400		Provider Email: Joshb@EPI-WA.com		
2) ☐ Installer ☐ Decommissioner ☐ Site Assessor				
Company Name: Clearcreek Contractors		Certification Type: UST Decommissioning		
Service Provider Name: Nathan Hoffman		Cert. No.: 5314131-U2	Exp. Date: 6/2/17	
Provider Phone: (360) 659-2459		Provider Email: nathanh@clearcreekcon.com		
IV. TANK INFORMATION				
TANK ID	SUBSTANCE STORED	TANK CAPACITY	DATE PROJECT IS EXPECTED TO BEGIN	COMMENTS
1	gasoline	1,000	6/16/16	
2	gasoline	1,000	6/16/16	

30-DAY NOTICE

FOR UNDERGROUND STORAGE TANKS

GENERAL INSTRUCTIONS

Under WAC 173-360-200 and 173-360-385, owners and operators are required to notify Ecology at least 30 days prior to beginning underground storage tank (UST) installation, decommissioning, or change-in-service projects by mailing this notice to the address below. A separate form must be used for each activity. Once this form is received by Ecology, it is date-stamped and returned to the owner/operator listed on the form. **Installation and decommissioning projects cannot begin within the first 30 days after the date stamped on this form unless the wait-period has been waived by an Ecology UST inspector.** If a project cannot meet the deadlines described below, an additional 30-Day Notice must be submitted.

Department of Ecology
Underground Storage Tank Section
PO Box 47600
Olympia, WA 98504-7600

SITE AND OWNER/OPERATOR INFORMATION

Fill in the site and owner information completely so that any problems can be resolved quickly. **The contact person listed on this form must confirm the exact date an installation and/or decommissioning project will begin at least three business days before proceeding.**

TANK INSTALLATIONS

Installation projects must begin within 90 days of the date stamped on this notice. Complete the Tank Information section by assigning Tank ID numbers that have not previously been used at the facility. Once, processed, this form also allows you to receive a one-time drop of product for UST system testing purposes only. The fuel drop is not required to occur within the 90-day period.

To receive additional deliveries, you must complete the Business License application and UST Addendum to obtain your facility compliance tag from Ecology. The registration information must be submitted to the Department of Revenue within 30 days of bringing the system into use in order to receive a Business License with the appropriate tank endorsement(s). **Once your tank(s) store more than one inch of product, leak detection equipment and monitoring must be in place.**

PERMANENT TANK CLOSURES

Decommissioning projects must be completed within 90 days after the date stamped on this notice. Complete the Tank Information section using Tank ID numbers listed on the Business License. Use the Comments box to include additional information, such as when product was removed so that no more than one inch of residue remains in the system.

Contact your local fire marshal and planning department prior to tank closure to find out if any additional permits are required by county or other local jurisdictions. Compliance with the State Environmental Policy Act (SEPA) Rules, Chapter 197-11 WAC, may be required.

A site assessment is required at the time of closure. Contamination found or suspected at the site must be reported to the appropriate Ecology regional office within 24 hours. If the contamination is confirmed, a site characterization report must be submitted to the regional office within 90 days; if contamination is not confirmed, a site assessment report must be submitted to the above address within 30 days.

The following are examples of tanks that are exempt from notification requirements.

- ❖ Farm or residential tanks, 1,100 gallons or less, used to store motor fuel for personal or farm use only.
The fuel must be used for farm purposes and cannot be for resale.
- ❖ Tanks used for storing heating oil that is used solely for the purpose of heating the premises.
- ❖ Tanks with a capacity of 110 gallons or less.
- ❖ Equipment or machinery tanks such as hydraulic lifts or electrical equipment tanks.
- ❖ Emergency overflow tanks, catch basins, or sumps.

If you need this document in a format for the visually impaired, call Toxics Cleanup Program at (360) 407-7170. Persons with hearing loss can call 711 for Washington Relay Service. Persons with speech disability, call (877) 833-6341.

ECY 020-95 (Rev. June 2015)

Facility Name: MARVS AUTO DETAIL SHOP

Tag(s):

SITE INFORMATION

MARVS AUTO DETAIL SHOP
2401 BROADWAY
EVERETT, WA 98201

RESP UNIT: NORTHWEST

COUNTY: SNOHOMISH

LAT: 47.985457

LONG: -122.202776

USTID: 2021

FSID: 33391782

TANK INFORMATION

TANK NAME: 1

STATUS: Closed in Place

STATUS DT: 08/06/1996

PERMANENTLY CLOSED DT:

INSTALL DT: 12/31/1964

UPGRADE DT:

PERMIT EXPIRATION DT:

TANK

PIPING

MATERIAL:

MATERIAL:

CONSTRUCTION:

CONSTRUCTION:

CORROSION PROT:

CORROSION PROT:

MANIFOLDED TANK:

SFC* at TANK:

RELEASE DETECT:

SFC* at DISP/PUMP:

TIGHTNESS TEST:

1ST REL DETECT:

SPILL PREVENTION:

2ND REL DETECT:

OVERFILL PREVENT:

PUMPING SYSTEM:

ACTUAL CAPACITY:

CAPACITY RANGE:

* SFC = Steel Flex Connector

COMPARTMENT #

SUBSTANCE STORED

SUBSTANCE USED

CAPACITY

1

TANK NAME: 2

STATUS: Closed in Place

STATUS DT: 08/06/1996

PERMANENTLY CLOSED DT:

INSTALL DT: 12/31/1964

UPGRADE DT:

PERMIT EXPIRATION DT:

TANK

PIPING

MATERIAL:

MATERIAL:

CONSTRUCTION:

CONSTRUCTION:

CORROSION PROT:

CORROSION PROT:

MANIFOLDED TANK:

SFC* at TANK:

RELEASE DETECT:

SFC* at DISP/PUMP:

TIGHTNESS TEST:

1ST REL DETECT:

SPILL PREVENTION:

2ND REL DETECT:

OVERFILL PREVENT:

PUMPING SYSTEM:

ACTUAL CAPACITY:

CAPACITY RANGE:

* SFC = Steel Flex Connector

COMPARTMENT #

SUBSTANCE STORED

SUBSTANCE USED

CAPACITY

1

UST_SiteTankDataSmry2014



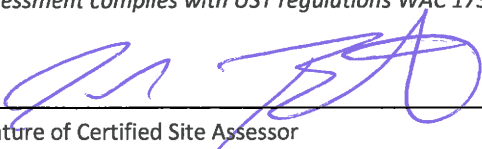
SITE CHECK/SITE ASSESSMENT CHECKLIST FOR UNDERGROUND STORAGE TANKS

UST ID #: _____

County: _____

This checklist certifies that site check or site assessment activities were performed in accordance with Chapter 173-360 WAC. Instructions are found on the last page.

I. UST FACILITY		II. OWNER/OPERATOR INFORMATION	
Facility Compliance Tag #:		Owner/Operator Name:	John L. Smevlag Living Trust
UST ID #:	2021	Business Name:	
Site Name:	Marv's Auto Detail Shop	Address:	12421 23rd Ave SE
Site Address:	2401 Broadway	City:	Everett
City:	Everett	State:	WA
Phone:		Zip:	
		Phone:	
		Email:	
III. CERTIFIED SITE ASSESSOR			
Service Provider Name:	Josh Bernthal	Company Name:	Environmental Partners
Cell Phone:	425-241-5400	Email:	joshb@epi-wa.com
		Address:	1180 NW Maple St
Certification #:	41502	Exp. Date:	6/2/17
		City:	Issaquah
		State:	WA
		Zip:	98027
IV. TANK INFORMATION			
TANK ID	TANK CAPACITY	LAST SUBSTANCE STORED	DATE SITE CHECK OR ASSESSMENT CONDUCTED
Unknown	1,000 gal	Gasoline	6/23/16
Unknown	1,000 gal	Gasoline	6/23/16
Unknown	1,000 gal	Gasoline	6/23/16
V. REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT (check one)			
☒ Release investigation following permanent UST system closure (i.e. tank removal or closure-in-place).			
☐ Release investigation following a failed tank and/or line tightness test.			
☐ Release investigation following discovery of contaminated soil and/or groundwater.			
☐ Release investigation directed by Ecology to determine if the UST system is the source of offsite impacts.			
☐ UST system is undergoing a "change-in-service", which is changing from storing a regulated substance (e.g. gasoline) to storing a non-regulated substance (e.g. water).			
☐ Directed by Ecology for UST system permanently closed or abandoned before 12/22/1988.			
☐ Other (describe):			

VI. CHECKLIST		
The site assessor must check each of the following items and include it in the report. Sections referenced below can be found in the Ecology publication <i>Guidance for Site Checks and Site Assessments for Underground Storage Tanks.</i>		YES NO
1. The location of the UST site is shown on a vicinity map.	☒	☐
2. A brief summary of information obtained during the site inspection is provided (Section 3.2)	☒	☐
3. A summary of UST system data is provided (Section 3.1)	☒	☐
4. The soils characteristics at the UST site are described. (Section 5.2)	☒	☐
5. Is there any apparent groundwater in the tank excavation?	☐	☒
6. A brief description of the surrounding land use is provided. (Section 3.1)	☒	☐
7. The name and address of the laboratory used to perform analyses is provided. The methods used to collect and analyze the samples, including the number and types of samples collected, are also documented in the report. The data from the laboratory is appended to the report.	☒	☐
8. The following items are provided in one or more sketches:		
• Location and ID number for all field samples collected	☒	☐
• If applicable, groundwater samples are distinguished from soil samples	☐	☐ N/A
• Location of samples collected from stockpiled excavated soil	☒	☐
• Tank and piping locations and limits of excavation pit	☒	☐
• Adjacent structures and streets	☒	☐
• Approximate locations of any on-site and nearby utilities	☒	☐
9. If sampling procedures are different from those specified in the guidance, has justification for using these alternative sampling procedures been provided? (Section 3.4)	☐	☐ N/A
10. A table is provided showing laboratory results for each sample collected including; sample ID number, constituents analyzed for and corresponding concentration, analytical method, and detection limit for that method. Any sample exceeding MTCA Method A cleanup standards are highlighted or bolded.	☒	☐
11. Any factors that may have compromised the quality of the data or validity of the results are described.	☒	☐
12. The results of this site check/site assessment indicate that a confirmed release of a regulated substance has occurred. The requirements for reporting confirmed releases can be found in WAC 173-360-372.	☒	☐
VII. REQUIRED SIGNATURES		
<i>Signature acknowledges the Site Check or Site Assessment complies with UST regulations WAC 173-360-360 through -395.</i>		
<u>Josh Bernthal</u>	<u></u>	<u>7/29/16</u>
Print or Type Name	Signature of Certified Site Assessor	Date



PERMANENT CLOSURE NOTICE FOR UNDERGROUND STORAGE TANKS

This notice certifies that permanent closure activities were performed and conducted in accordance with Chapter 173-350 WAC. Instructions are found on the back page.

UST ID #: _____

County: _____

I. UST FACILITY		II. OWNER/OPERATOR INFORMATION		
Facility Compliance Tag #:		Owner/Operator Name:	John L. Smevåg Living Tr.	
UST ID #:	2021	Business Name:		
Site Name:	Marv's Auto Detail Shop	Address:	12431 23rd Ave SE	
Site Address:	2401 Broadway	City:	Everett	
City:	Everett	State:	WA	
Phone:		Zip:		
		Phone:		
		Email:		
III. CERTIFIED UST DECOMMISSIONER				
Company Name:	Clearcreek Contractors	Service Provider Name:	Nathan Hoffman	
Address:	3419 88th St NE	Certification Type:	UST decommissioning	
City:	Marysville	State:	WA	
Zip:	98270	Cert. No.:	KC00219270	
Exp. Date:	06/02/17	Provider Email:	nathan.hoffman@clearcreek.com	
Provider Phone:	(360) 659-2459	Provider Signature:	[Signature]	
Date:	8-2-16			
IV. TANK INFORMATION				
TANK ID	TANK CAPACITY	LAST SUBSTANCE STORED	CLOSURE METHOD	CLOSURE DATE
Unknown	1,000 gal	gasoline	☒ removal	6/23/16
Unknown	1,000 gal	gasoline	☒ removal	6/23/16
Unknown	1,000 gal	gasoline	☒ removal	6/23/16
			☐ closed-in-place	
			☐ change-in-service	
			☐ closed-in-place	
			☐ change-in-service	
V. REQUIRED SIGNATURE				
Signature acknowledges UST(s) comply with UST regulation WAC 173-350-380 Permanent Closure Requirements.				
Date	Signature of Tank Owner/Operator or Authorized Representative		Print or Type Name	
8/2/16	[Signature]		Debra Smevåg	

Attachment B
UST Removal Documentation



EVERETT FIRE DEPARTMENT



PERMIT

No. 2016-044

June 15, 2016

TO WHOM IT MAY CONCERN:

By virtue of the provisions of Chapter 16.03 EMC, the Everett Fire Code, based on our review of Permittee's application and subject to the following conditions, the City of Everett grants this permit to:

CLEARCREEK CONTRACTORS

3919 88TH ST NE

This permit is granted for:

105.7.7.3: Flammable and combustible liquid tanks (Decommissioning of (2) underground tanks at 2401 Broadway Ave)

CONDITIONS:

- This permit is subject to the Everett Fire Department's inspection of the permitted location and activity prior the occurrence of the permitted activity.
- Permittee and Permittee's agents and employees shall carry out the proposed activity in compliance with the Everett Fire Code and all other laws or regulations, or both and in complete accordance with approved plans and specifications.
- This permit does not take the place of any license required by law and is not transferable.
- This permit is not valid in the event of a change in the use, occupancy, operation or ownership of the permitted location and Permittee must obtain a new permit in the event of a change in the use, occupancy, operation or ownership of the permitted location.
- Permits purporting to violate the Everett Fire Code or any applicable law or regulation are not valid.

Steve Goforth, Assistant Fire Marshal

Fire Marshal's Office Representative



7343 E. MARGINAL WAY SOUTH
SEATTLE, WASHINGTON 98108
PH. (206) 832-3000
FAX (206) 832-3030
24 HOUR EMERGENCY PHONE: 1-888-832-3008

74109

215060

BILL OF LADING AND GALLONAGE TICKET

SHIPPER/GENERATOR	<u>Time's Bike Shop</u>	CONTACT	JOB # <u>74731</u>
ADDRESS	<u>2401 Broadway</u>	PHONE#	LOAD # <u>01</u>
CITY, STATE, ZIP	<u>Everett, WA</u>	<u>Dispatch</u>	DATE <u>06/16/16</u>
CARRIER	<u>EFS</u>	PHONE# <u>2068323000</u>	DOCUMENT # <u>74109</u>
CONSIGNEE	<u>ERS</u>	CONTACT <u>Henry U</u>	TRUCK # <u>7024</u>
ADDRESS	<u>1500 Airport Way S</u>	PHONE# <u>2068323000</u>	PRODUCT TYPE <u>Lig</u>
CITY, STATE, ZIP	<u>Seattle WA</u>		EST. GALLONS

HM	ITEM #	U.S. DOT DESCRIPTION	#	TYPE	QTY.
<u>X</u>	<u>A</u>	<u>UN1203, GASOLINE, 3, PG II</u>	<u>1</u>	<u>TT</u>	<u>1,597 gal</u>
	<u>B</u>				
	<u>C</u>				
	<u>D</u>				

A. WPQ # G029016 DISP. CODE: _____ ERG #128 C. WPQ # _____ DISP. CODE: _____

B. WPQ # _____ DISP. CODE: _____ D. WPQ # _____ DISP. CODE: _____

30.5" = Total - 1,597 gal
28.0 = water 1,497 gal
2.5 = gasoline = 100 gal

DISPOSAL

DUMP DELAY TIME _____

WASH OUT: YES () NO ()

TIME IN _____ TIME OUT _____

E. WATER _____ GALLONS LOCATION _____ TEST _____ DISP. CODE _____

F. SOLIDS _____ GALLONS LOCATION _____ TEST _____ DISP. CODE _____

_____ % SUSPENDED SOLIDS BY CENTRIFUGE + _____ GALS SEDIMENT

G. OIL/DIESEL/GAS _____ GALLONS LOCATION _____ TEST _____ DISP. CODE _____

HOC'S _____ PCB'S _____ B.S.&W. _____ API _____ LAB: Y / N

Shipper's Certification: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway, vessel and rail according to applicable international and national government regulations and this material is not regulated as a hazardous waste in accordance with WAC 173-303, 40 CFR, Part 261 or 40 CFR Part 761.

X Tam Dodd
SHIPPER (PRINT NAME)
X Teddy Ym
CARRIER - DRIVER 1 (PRINT NAME)
X _____
CARRIER - DRIVER 2 (PRINT NAME)
X _____
CONSIGNEE (PRINT NAME)

X Tom Dodd
SIGNATURE
X LTJm
SIGNATURE
X _____
SIGNATURE
X _____
SIGNATURE

DATE: 6-16-16
DATE: 06/16/16
DATE: _____
DATE: _____

CUSTOMER



215060

PUMP AND RINSE CERTIFICATION

This is an on-site cleaning certificate. This certificate indicates that the following underground tank and or above ground tank has been rinsed from the top by EMERALD FIELD SERVICES DIVISION. The tank has been inspected to ensure that all foreign material / Liquids have been removed to the best of our ability and is cleaned to the customer's satisfaction.

• JOBSITE AND ADDRESS

Tim's Bike Shop
2401 Broadway
Everett, WA

• JOB NUMBER:

74731

• TANK(S)

3-500 gallons tanks

• DATE CLEANED:

06/16/2016

• DATE INSPECTED:

06/16/2016

• EFS TRUCK:

#7024

• TANK CLEANER PRINT NAME:

Teddy Yin

• TANK CLEANER SIGNATURE:

Teddy Yin

• INSPECTOR'S NAME:

Tom DODDS

• INSPECTOR'S SIGNATURE:

Tom DODDS

• CUSTOMER'S NAME:

Clear Creek

• CUSTOMER'S SIGNATURE:

Tom DODDS

• TANK(S) LAST CONTAINED:

Gasoline

Please note that this letter does not certify that the above tank(s) have been cleaned for disposal or that it (they) should not be considered gas-free.

Sincerely,
Emerald Services, Inc.



EMERALD

An Environmental Company

215060

CLEANING CERTIFICATE

This is an on-site cleaning certificate. This certificate indicates that the following underground tanks, tanker-trailers and or ISO containers has had all liquids and sludge's removed and was washed, rinsed and cleaned of all residues by EMERALD FIELD SERVICES DIVISION. The tank has been re-inspected to ensure that all foreign material was removed and is cleaned to the customer's satisfaction.

Emerald Services, Inc.

- JOB NUMBER: # 74731
- DATE CLEANED: 06/16/2016
- DATE INSPECTED: 06/16/2016
- CONTAINER OR TRUCK #: 7024
- TANK CLEANER SIGNATURE: [Signature]
- INSPECTOR'S SIGNATURE: [Signature]
- CUSTOMER'S SIGNATURE: [Signature]
- CONTAINER LAST CONTAINED: Gasoline



Clearcreek Contractors	Tim's Bicycle	Jun 16, 2016
Survey Requested by	Vessel Owner Agent	Date
Tank Farm	Underground Storage Tank	2401 Broadway Everett
Vessel	Type of Vessel	Specific Location of Vessel
Gasoline	O ₂ , LEL, Visual, VOC	12:18
Last Three 3 Loadings	Tests Performed	Time Survey Completed

Inspected Spaces:

Group 1. 1-500-1,000 gal. Unknown UST

Safety Designations:

NOT SAFE FOR WORKERS
SAFE FOR LIMITED HOT WORK

LIMITATIONS:

Specific Location: *At job site.*

Hot Work Type: *This tank has been purged with CO₂ to less than 6% Oxygen and is safe for excavation and cutting of access.*

INERTED

Inert Medium: *Carbon Dioxide (CO₂)*

Method for maintaining safe conditions: *All openings are and must remain secured.*

Measures for safe disposal of inert gas: *Ventilate and test for 20.8% Oxygen to properly dispose of inerting gas.*

Other instructions: *Chemist shall be in attendance throughout hotwork operations.*

Instructions

Maintain firewatch with charged extinguisher at ready during hot work operations.

Test Results

	% O₂	% LEL	VOC
Inspected spaces group 1	<6%	N/A	>500

Limits of Detection

0.1 ppm VOC

In the event of physical or atmospheric changes affecting the STANDARD SAFETY DESIGNATIONS assigned to any of the above spaces, this certificate is voided; spaces not listed on the Certificate are not to be entered unless authorized on another Certificate and/or maintained in accordance with OSHA 29 CFR 1915; or if in any doubt, immediately stop all work and contact the undersigned Marine Chemist. Unless otherwise stated on the Certificate, all spaces and affected adjacent spaces are to be reinspected daily or more often as necessary by the competent person or the authority having jurisdiction as applicable in support of work prior to entry or recommencement of work.

QUALIFICATIONS: Transfer of ballast, cargo, fuel or manipulation of valves or closure equipment tending to alter conditions in pipelines, tanks, or compartments subject to gas accumulation, unless specifically approved on this Certificate, requires inspection and a new Certificate for spaces so affected. All lines, vents, heating coils, valves, and similar enclosed appurtenances shall be considered "not safe" unless otherwise specifically designated. Movement of the vessel from its specific location voids the Certificate unless shifting of the vessel within the facility has been specifically authorized on this certificate.

STANDARD SAFETY DESIGNATIONS: (partial list, paraphrased from NFPA 306, Subsections 4.3.1 through 4.3.6)

ATMOSPHERE SAFE FOR WORKERS: In the compartment or space so designated (a) the oxygen content of the atmosphere shall be at least 19.5 percent and not greater than 22 percent by volume; (b) the concentration of flammable materials is below 10 percent of the lower explosive limit; (c) any toxic materials in the atmosphere associated with cargo, fuel, tank coatings, inerting mediums, or fumigants are within permissible concentrations at the time of the inspection.

NOT SAFE FOR WORKERS: In the compartment or space so designated, entry shall not be permitted.

ENTER WITH RESTRICTIONS: In the compartment or space so designated, entry for work is permitted only if conditions of proper protective equipment, or clothing, or time, or all of the aforementioned, as appropriate, are as specified.

SAFE FOR HOT WORK: In the compartment or space so designated (a) the oxygen content of the atmosphere is not greater than 22 percent by volume; (b) the concentration of flammable materials in the atmosphere is less than 10 percent of the lower explosive limit; (c) the residues, scale, or preservative coatings are cleaned sufficiently to prevent the spread of fire and are not be capable of producing a higher concentration than permitted by (a) or (b); (d) all adjacent spaces, containing or having contained flammable or combustible materials shall be sufficiently cleaned of residues, scale, or preservative coatings to prevent the spread of fire; or they are inerted. Ship's fuel tanks, lube tanks, or engine room or fire room bilges, or other machinery spaces, are treated in accordance with the Marine Chemist's requirements.

SAFE FOR LIMITED HOT WORK: In the compartment or space so designated (a) portions of the space meet the requirements Safe for Hot Work and Partial Cleaning, as applicable, or (b) the space is inerted, adjacent spaces meet the requirements for Safe for Hot Work, and hot work is restricted to specific locations; (c) portions of the space shall meet the requirements for Safe for Hot Work, as applicable; and the nature or type of hot work shall be limited or restricted.

NOT SAFE FOR HOT WORK: In the compartment or space so designated, hot is not permitted.

CHEMISTS ENDORSEMENT. This is to certify that I have personally determined that all spaces in the foregoing list are in accordance with NFPA 306 Control of Gas Hazards on Vessels and have found the condition of each to be in accordance with its assigned designation.



Clearcreek Contractors	Tim's Bicycle	Jun 16, 2016
Survey Requested by	Vessel Owner Agent	Date
Tank Farm	Underground Storage Tank	2401 Broadway Everett
Vessel	Type of Vessel	Specific Location of Vessel
Gasoline	O ₂ , LEL, Visual, VOC	9:03
Last Three 3 Loadings	Tests Performed	Time Survey Completed

Inspected Spaces:

Group 1. 2-500-1,000 gal. UST's

Safety Designations:

NOT SAFE FOR WORKERS
SAFE FOR LIMITED HOT WORK

LIMITATIONS:

Specific Location: *At job site.*

Hot Work Type: *These Tanks have been purged with CO₂ to <6% Oxygen and are safe for excavation and cutting of access.*

INERTED

Inert Medium: *Carbon Dioxide (CO₂)*

Method for maintaining safe conditions: *All openings are and must remain secured.*

Measures for safe disposal of inert gas: *Ventilate and test for 20.8% Oxygen to properly dispose of inerting gas.*

Other instructions: *Chemist shall be in attendance throughout hotwork operations.*

Instructions

Maintain firewatch with charged extinguisher at ready during hot work operations.

Test Results

	% O₂	% LEL	VOC
Inspected spaces group 1	<6%	N/A	<50 ppm

Limits of Detection

0.1 ppm VOC

In the event of physical or atmospheric changes affecting the STANDARD SAFETY DESIGNATIONS assigned to any of the above spaces, this certificate is voided; spaces not listed on the Certificate are not to be entered unless authorized on another Certificate and/or maintained in accordance with OSHA 29 CFR 1915; or if in any doubt, immediately stop all work and contact the undersigned Marine Chemist. Unless otherwise stated on the Certificate, all spaces and affected adjacent spaces are to be reinspected daily or more often as necessary by the competent person or the authority having jurisdiction as applicable in support of work prior to entry or recommencement of work.

QUALIFICATIONS: Transfer of ballast, cargo, fuel or manipulation of valves or closure equipment tending to alter conditions in pipelines, tanks, or compartments subject to gas accumulation, unless specifically approved on this Certificate, requires inspection and a new Certificate for spaces so affected. All lines, vents, heating coils, valves, and similar enclosed appurtenances shall be considered "not safe" unless otherwise specifically designated. Movement of the vessel from its specific location voids the Certificate unless shifting of the vessel within the facility has been specifically authorized on this certificate.

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CHEMISTS ENDORSEMENT. This is to certify that I have personally determined that all spaces in the foregoing list are in accordance with NFPA 306 Control of Gas Hazards on Vessels and have found the condition of each to be in accordance with its assigned designation.

Attachment C
Copies of Analytical Laboratory Reports

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

June 24, 2016

Doug Kunkel, Project Manager
Environmental Partners, Inc.
1180 NW Maple St, Suite 310
Issaquah, WA 98027

RE: 71701.0, F&BI 606320

Dear Mr Kunkel:

Included are the results from the testing of material submitted on June 17, 2016 from the 71701.0, F&BI 606320 project. There are 10 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 have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Josh Bernthal
EPI0624R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 17, 2016 by Friedman & Bruya, Inc. from the Environmental Partners 71701.0, F&BI 606320 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Environmental Partners</u>
606320 -01	UST1-B:10'
606320 -02	USTEX-WSW:6'
606320 -03	SP-1
606320 -04	USTEX-SSW:6'
606320 -05	USTEX-ESW:6'
606320 -06	USTEX-NSW:6'
606320 -07	UST2-B:10'
606320 -08	UST3-ESW:6'
606320 -09	UST3-WSW:6'
606320 -10	UST3-B:10'
606320 -11	SP-2
606320 -12	SP-3

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/24/16
 Date Received: 06/17/16
 Project: 71701.0, F&BI 606320
 Date Extracted: 06/17/16
 Date Analyzed: 06/17/16 and 06/21/16

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
 FOR BENZENE, TOLUENE, ETHYLBENZENE,
 XYLENES AND TPH AS GASOLINE
 USING METHODS 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-132)
UST1-B:10' 606320-01	<0.02	<0.02	<0.02	<0.06	<2	77
USTEX-WSW:6' 606320-02	<0.02	<0.02	<0.02	<0.06	<2	75
SP-1 606320-03	<0.02	0.30	0.54	2.3	120	86
UST2-B:10' 606320-07	<0.02	<0.02	<0.02	<0.06	<2	92
UST3-B:10' 606320-10	<0.02	<0.02	0.036	<0.06	3.5	78
SP-2 606320-11	<0.02	0.36	0.43	1.9	76	104
SP-3 606320-12	<0.02	<0.02	0.062	<0.06	3.9	89
Method Blank 06-1181 MB	<0.02	<0.02	<0.02	<0.06	<2	91

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	UST1-B:10'	Client:	Environmental Partners
Date Received:	06/17/16	Project:	71701.0, F&BI 606320
Date Extracted:	06/20/16	Lab ID:	606320-01
Date Analyzed:	06/20/16	Data File:	606320-01.048
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

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

Lead	9.52
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	SP-1	Client:	Environmental Partners
Date Received:	06/17/16	Project:	71701.0, F&BI 606320
Date Extracted:	06/20/16	Lab ID:	606320-03
Date Analyzed:	06/20/16	Data File:	606320-03.049
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

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

Lead	9.19
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	UST2-B:10'	Client:	Environmental Partners
Date Received:	06/17/16	Project:	71701.0, F&BI 606320
Date Extracted:	06/20/16	Lab ID:	606320-07
Date Analyzed:	06/20/16	Data File:	606320-07.050
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
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Lead	9.68
------	------

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	UST3-B:10'	Client:	Environmental Partners
Date Received:	06/17/16	Project:	71701.0, F&BI 606320
Date Extracted:	06/20/16	Lab ID:	606320-10
Date Analyzed:	06/20/16	Data File:	606320-10.051
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

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

Lead	9.13
------	------

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	Environmental Partners
Date Received:	NA	Project:	71701.0, F&BI 606320
Date Extracted:	06/20/16	Lab ID:	I6-386 mb
Date Analyzed:	06/20/16	Data File:	I6-386 mb.053
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

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

Lead	<1
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/24/16

Date Received: 06/17/16

Project: 71701.0, F&BI 606320

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING METHOD 8021B AND NWTPH-Gx

Laboratory Code: 606323-01 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	<0.02	<0.02	nm
Ethylbenzene	mg/kg (ppm)	<0.02	<0.02	nm
Xylenes	mg/kg (ppm)	<0.06	<0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	
			Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	77	66-121
Toluene	mg/kg (ppm)	0.5	83	72-128
Ethylbenzene	mg/kg (ppm)	0.5	83	69-132
Xylenes	mg/kg (ppm)	1.5	83	69-131
Gasoline	mg/kg (ppm)	20	100	61-153

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/24/16

Date Received: 06/17/16

Project: 71701.0, F&BI 606320

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL METALS USING EPA METHOD 200.8**

Laboratory Code: 606222-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Lead	mg/kg (ppm)	50	2.30	97	92	70-130	5

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Lead	mg/kg (ppm)	50	98	85-115

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.

606320

SAMPLE CHAIN OF CUSTODY

ME 06/17/16

US2/CJ2

Report To Doug Kunkel / Josh BernthalCompany ENVIRONMENTAL PARTNERS, INC.Address 1180 NW Maple St. Ste 310City, State, ZIP ISSAQUAH, WA 98027Phone 425-395-0610 Email josh.bernthal@epi-wa.comSAMPLERS (signature) Page # 1 of 2

TURNAROUND TIME

☐ Standard Turnaround☒ RUSH 24 HRS

Rush charges authorized by: _____

PROJECT NAME

71701.0

PO #

REMARKS

INVOICE TO

SAMPLE DISPOSAL

☐ Dispose after 30 days☐ Archive Samples☐ Other _____

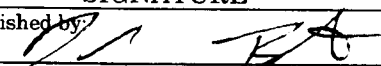
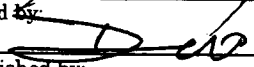
Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes
						TPH-HCID	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260C	SVOCs by 8270D	PAHs 8270D SIM	Lead			
UST1-B:10'	01 A-F	6/16/16	1220	SOIL	6			X	X				X			RUSH - 24 HRS
USTEX-WSW:6'	02	6/16/16	1230	SOIL	6			X	X							RUSH - 24 HRS
SP-1	03	6/16/16	1300	SOIL	6			X	X				X			RUSH ASAP*
USTEX-SSW:6'	04 A-E	6/17/16	1130	SOIL	65			X	X							HOLD
USTEX-ESW:6'	05	6/17/16	1145	SOIL	65			X	X							HOLD
USTEX-NSW:6'	06	6/17/16	1200	SOIL	65			X	X							HOLD
UST2-B:10'	07 A-F	6/17/16	1210	SOIL	6			X	X				X			RUSH - 24 HRS
UST3-ESW:6'	08 A-E	6/17/16	1220	SOIL	65			X	X							HOLD
UST3-NSW:6'	09	6/17/16	1230	SOIL	65			X	X							HOLD
UST3-B:10'	10 A-F	6/17/16	1250	SOIL	6			X	X				X			RUSH - 24 HRS

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

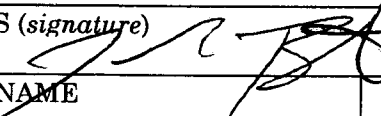
SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: 	Josh Bernthal	EPI	6/16/16	1400
Received by: 	Doug Kunkel	F&BF	6-17-16	1400
Relinquished by:				
Received by:				
Samples received at			5°C	

606320

SAMPLE CHAIN OF CUSTODY

ME 06/17/16 USA/CIA

Report To DAVE KUNKEL / Josh Bernthal
 Company ENVIRONMENTAL PARTNERS, INC.
 Address 1180 NW Maple St, Ste 310
 City, State, ZIP ISSAQUAH, WA 98027
 Phone 425-355000 Email joshbernthal@epi.com

SAMPLERS (signature) Page # 2 of 2

PROJECT NAME

PO #

REMARKS

INVOICE TO

TURNAROUND TIME

☐ Standard Turnaround☒ RUSH

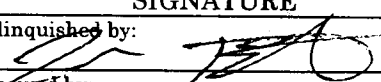
Rush charges authorized by: _____

SAMPLE DISPOSAL

☐ Dispose after 30 days☐ Archive Samples☐ Other _____

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes
						TPH-HCID	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260C	SVOCs by 8270D	PAHs 8270D SIM				
SP-2	11 A E	6/17/16	1300	SOIL	5				X	X						RUSH ASAP
SP-3	12 V	6/17/16	1310	SOIL	5				X	X						RUSH ASAP

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

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: 	Josh Bernthal	EPI	6/17/16	1400
Received by: 	DAVE KUNKEL	FOBI	6-17-16	14:00
Relinquished by: _____				
Received by: _____				
Samples received at			5:00	

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

June 24, 2016

Doug Kunkel, Project Manager
Environmental Partners, Inc.
1180 NW Maple St, Suite 310
Issaquah, WA 98027

RE: 71701.0, F&BI 606379

Dear Mr Kunkel:

Included are the results from the testing of material submitted on June 21, 2016 from the 71701.0, F&BI 606379 project. There are 4 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 have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Josh Bernthal
EPI0624R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 21, 2016 by Friedman & Bruya, Inc. from the Environmental Partners 71701.0, F&BI 606379 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Environmental Partners</u>
606379-01	USTEX-SSW:6.5'
606379-02	USTEX-ESW:6.5'

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/24/16
Date Received: 06/21/16
Project: 71701.0, F&BI 606379
Date Extracted: 06/21/16
Date Analyzed: 06/21/16

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING METHODS 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-132)
USTEX-SSW:6.5' 606379-01	<0.02	0.034	0.083	0.16	33	97
USTEX-ESW:6.5' 606379-02	<0.02	0.030	0.050	0.12	11	94
Method Blank 06-1242 MB	<0.02	<0.02	<0.02	<0.06	<2	73

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/24/16

Date Received: 06/21/16

Project: 71701.0, F&BI 606379

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 606317-03 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	<0.02	<0.02	nm
Ethylbenzene	mg/kg (ppm)	<0.02	<0.02	nm
Xylenes	mg/kg (ppm)	<0.06	<0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	
			Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	82	69-120
Toluene	mg/kg (ppm)	0.5	89	70-117
Ethylbenzene	mg/kg (ppm)	0.5	93	65-123
Xylenes	mg/kg (ppm)	1.5	95	66-120
Gasoline	mg/kg (ppm)	20	115	71-131

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.

~~REDACTED~~ ~~REDACTED~~ KUNKEL / JOSH BERNTHAL
Company ENVIRONMENTAL PARTNERS, INC.
Address 1190 NW Maple St. Ste 310
City, State, ZIP ISSAQUAH, WA 98027
Phone 425-395-0010 Email jkunkel@epi-ha.com

ME 6/21/14

Page # 1 of 1

TURNAROUND TIME

□ Standard Turnaround

RUSH ASAR

Rush charges authorized by:

SAMPLE DISPOSAL

☐ **Dispose after 30 days**

□ Archive Samples

☐ Other

SAMPLERS (*signature*)

PROJECT NAME

PO #

REMARKS

INVOICE TO

						ANALYSES REQUESTED												
Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	TPH-HCID	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260C	SVOCs by 8270D	PAHs 8270D SIM					Notes	
USTEX-SSW:6.5'	DIA-D	6/21/16	1200	SOIL	4			X	X									
USTEX-ESW:6.5'	02 ✓	6/21/16	1330	SOIL	4			X	X									

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

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: 	Josh Bernthal	EPI	6/21/16	1:00
Received by: 	Nham Phan	FEBT	6/21/16	1:00
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

June 24, 2016

Doug Kunkel, Project Manager
Environmental Partners, Inc.
1180 NW Maple St, Suite 310
Issaquah, WA 98027

RE: 71701.0, F&BI 606395

Dear Mr Kunkel:

Included are the results from the testing of material submitted on June 22, 2016 from the 71701.0, F&BI 606395 project. There are 4 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 have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Josh Bernthal
EPI0624R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 22, 2016 by Friedman & Bruya, Inc. from the Environmental Partners 71701.0, F&BI 606395 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Environmental Partners</u>
606395 -01	UST3-NSW:6'
606395 -02	UST3-ESW:5'
606395 -03	UST3-WSW:6'
606395 -04	USTEX-NSW:5.5

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/24/16
Date Received: 06/22/16
Project: 71701.0, F&BI 606395
Date Extracted: 06/22/16
Date Analyzed: 06/22/16

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING METHODS 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-132)
UST3-NSW:6' 606395-01	<0.02	0.42	1.3	2.2	260	120
UST3-ESW:5' 606395-02 1/5	0.07 j	1.1	1.9	2.7	430	105
UST3-WSW:6' 606395-03	<0.02	<0.02	0.35	0.25	68	98
USTEX-NSW:5.5 606395-04	<0.02	0.46	1.2	2.1	270	117
Method Blank 06-1244 MB	<0.02	<0.02	<0.02	<0.06	<2	73

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/24/16

Date Received: 06/22/16

Project: 71701.0, F&BI 606395

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 606301-04 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	<0.02	<0.02	nm
Ethylbenzene	mg/kg (ppm)	<0.02	<0.02	nm
Xylenes	mg/kg (ppm)	<0.06	<0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	
			Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	86	69-120
Toluene	mg/kg (ppm)	0.5	91	70-117
Ethylbenzene	mg/kg (ppm)	0.5	93	65-123
Xylenes	mg/kg (ppm)	1.5	93	66-120
Gasoline	mg/kg (ppm)	20	95	71-131

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.

606395

Report to

EPI

SAMPLE CHAIN OF CUSTODY

ME6/22/16

VS1

Page # 1 of 1

Company

Josh / Doug

Address

City, State, ZIP

Phone

Email

SAMPLERS (signature)

PROJECT NAME

71701.0

PO #

REMARKS

INVOICE TO

TURNAROUND TIME

☐ Standard Turnaround☒ RUSH ASAP

Rush charges authorized by:

SAMPLE DISPOSAL

☐ Dispose after 30 days☐ Archive Samples☐ Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes
						TPH-HCID	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260C	SVOCs by 8270D	PAHs 8270D SIM				
UST 3-NSW 6'	01 A-D	6/22/16	0730	SOIL	4			X	X							
UST 3-ESU 3'	02	6/22/16	0800	SOIL	4			X	X							
UST 3-NSW 1'	03	6/22/16	0750	SOIL	4			X	X							
UST EX-NSW 1.5	04 ✓	6/22/16	0830	SOIL	4			X	X							

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

SIGNATURE

Relinquished by:

Received by:

Relinquished by:

Received by:

PRINT NAME

Josh Bernthal

E. Bellan

COMPANY

EPI

FAB

DATE

6/22/16

6/22/16

TIME

1025

1125

Samples received at 10 °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

June 28, 2016

Doug Kunkel, Project Manager
Environmental Partners, Inc.
1180 NW Maple St, Suite 310
Issaquah, WA 98027

RE: Everett 71701.1, F&BI 606431

Dear Mr Kunkel:

Included are the results from the testing of material submitted on June 23, 2016 from the Everett 71701.1, F&BI 606431 project. There are 4 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 have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Eric Caddey
EPI0628R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 23, 2016 by Friedman & Bruya, Inc. from the Environmental Partners Everett 71701.1, F&BI 606431 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Environmental Partners</u>
606431 -01	USTEX-SSW2:6.5
606431 -02	EX-SW1:7
606431 -03	EX-SW2:7.5
606431 -04	EX-SW3:7
606431 -05	EX-SW4:7
606431 -06	EX-B1:10

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/28/16

Date Received: 06/23/16

Project: Everett 71701.1, F&BI 606431

Date Extracted: 06/23/16

Date Analyzed: 06/23/16 and 06/24/16

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING METHODS 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-132)
USTEX-SSW2:6.5 606431-01	<0.02	<0.02	<0.02	<0.06	<2	91
EX-SW1:7 606431-02	<0.02	<0.02	0.37	0.61	84	98
EX-SW2:7.5 606431-03	<0.02	<0.02	<0.02	<0.06	<2	96
EX-SW3:7 606431-04	<0.02	<0.02	<0.02	<0.06	<2	90
EX-SW4:7 606431-05	<0.02	<0.02	0.11	0.20	30	95
EX-B1:10 606431-06	<0.02	<0.02	<0.02	<0.06	2.9	91
Method Blank 06-1246 MB	<0.02	<0.02	<0.02	<0.06	<2	96

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/28/16

Date Received: 06/23/16

Project: Everett 71701.1, F&BI 606431

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 606402-02 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	<0.02	<0.02	nm
Ethylbenzene	mg/kg (ppm)	<0.02	<0.02	nm
Xylenes	mg/kg (ppm)	<0.06	<0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	
			Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	88	66-121
Toluene	mg/kg (ppm)	0.5	94	72-128
Ethylbenzene	mg/kg (ppm)	0.5	96	69-132
Xylenes	mg/kg (ppm)	1.5	96	69-131
Gasoline	mg/kg (ppm)	20	100	61-153

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.

6063 606431

SAMPLE CHAIN OF CUSTODY

ME 06-23-46 181

Send Report To Doug Kuskul, Eric Caddy
 Company Environmental Partners, Inc.
 Address 1180 NW Maple St, Ste 310
 City, State, ZIP Issaquah, WA 98027
 Phone # 425-281-3629 Fax # _____

SAMPLERS (signature) [Signature]

PROJECT NAME/NO.

Everett/71701.1

PO#

REMARKS

Page # _____ of _____

TURNAROUND TIME

☐ Standard (2 Weeks)

☒ RUSH ASAP

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
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS					
4STEX-SSW2:6.5	01A	6/23/16	07:55	Soil	4		X	X								
EX-SW1:7	02T		12:25		4		X	X								
EX-SW2:7.5	03		13:20		4		X	X								
EX-SW3:7	04		14:00		4		X	X								
EX-SW4:7	05	✓	14:21	✓	4		X	X								petro odors
EX-B1:10	06	✓	13:42	✓	4		X	X								

Samples received at 4 °C

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: <u>[Signature]</u>	Eric Caddy	EPT	6/23/16	1630
Received by: <u>[Signature]</u>	<u>[Signature]</u>	F&B	6/23/16	1630
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

June 30, 2016

Doug Kunkel, Project Manager
Environmental Partners, Inc.
1180 NW Maple St, Suite 310
Issaquah, WA 98027

RE: Everett 71701.1, F&BI 606447

Dear Mr Kunkel:

Included are the results from the testing of material submitted on June 24, 2016 from the Everett 71701.1, F&BI 606447 project. There are 4 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 have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Cynthia Moon, Eric Caddey
EPI0630R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 24, 2016 by Friedman & Bruya, Inc. from the Environmental Partners Everett 71701.1, F&BI 606447 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Environmental Partners</u>
606447 -01	EX-SW5:7
606447 -02	EX-SW6:7.5
606447 -03	EX-SW7:7
606447 -04	EX-SW8:7
606447 -05	EX-SW9:6.5
606447 -06	EX-SW10:7
606447 -07	EX-B2:9.5
606447 -08	EX-SW11:4

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/30/16
 Date Received: 06/24/16
 Project: Everett 71701.1, F&BI 606447
 Date Extracted: 06/24/16
 Date Analyzed: 06/24/16 and 06/27/16

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
 FOR BENZENE, TOLUENE, ETHYLBENZENE,
 XYLENES AND TPH AS GASOLINE
 USING METHODS 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-132)
EX-SW5:7 606447-01	<0.02	0.068	0.70	1.3	140	97
EX-SW6:7.5 606447-02	<0.02	0.57	1.1	2.1	270	106
EX-SW7:7 606447-03	<0.02	<0.02	0.77	1.4	170	88
EX-SW8:7 606447-04	<0.02	0.22	0.66	1.2	150	92
EX-SW9:6.5 606447-05	<0.02	<0.02	0.045	0.11	42	88
EX-SW10:7 606447-06	<0.02	<0.02	0.027	0.088	58	92
EX-B2:9.5 606447-07	<0.02	0.11	0.30	0.34	24	81
EX-SW11:4 606447-08 1/5	0.05 j	0.16	0.68	1.5	260	90
Method Blank 06-1247 MB	<0.02	<0.02	<0.02	<0.06	<2	80

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/30/16

Date Received: 06/24/16

Project: Everett 71701.1, F&BI 606447

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING METHOD 8021B AND NWTPH-Gx**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Benzene	mg/kg (ppm)	0.5	88	87	66-121	1
Toluene	mg/kg (ppm)	0.5	93	93	72-128	0
Ethylbenzene	mg/kg (ppm)	0.5	94	93	69-132	1
Xylenes	mg/kg (ppm)	1.5	95	94	69-131	1
Gasoline	mg/kg (ppm)	20	100	100	61-153	0

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.

606447

SAMPLE CHAIN OF CUSTODY

ME 06-24-16

CII/VPI

Send Report To Doug Kunkel, Eric Caddy
 Company EPI
 Address 1180 NW Maple St., Ste 310
 City, State, ZIP Issaquah, WA 98027
 Phone # 425-281-7629 Fax # _____

SAMPLERS (signature) [Signature]Page # 1 of 1

PROJECT NAME/NO.

PO#

Euvolett/71701.1

TURNAROUND TIME

☐ Standard (2 Weeks)☒ RUSH 24 hr

Rush charges authorized by _____

REMARKS

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
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS					
EX-SW5:7	01A-D	6/24/16	08:15	COI	4	X	X									
EX-SW6:7.5	02T		09:33		4	X	X									
EX-SW7:7	03		10:10		4	X	X									
EX-SW8:7	04		10:55		4	X	X									
EX-SW9:6.5	05		11:16		4	X	X									
EX-SW10:7	06		11:22		4	X	X									
EX-B2:9.5	07		11:30		4	X	X									
EX-SW11:4	08	✓	11:40	✓	4	X	X									

Samples received at 3 °C

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

FORMS\COC\COC.DOC

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>[Signature]</u>	Eric Caddy	EPI	6/24/16	13:25
Received by: <u>[Signature]</u>	VINT	FBI	6/24/16	13:25
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

July 6, 2016

Doug Kunkel, Project Manager
Environmental Partners, Inc.
1180 NW Maple St, Suite 310
Issaquah, WA 98027

RE: Everett 71701.1, F&BI 607009

Dear Mr Kunkel:

Included are the results from the testing of material submitted on July 1, 2016 from the Everett 71701.1, F&BI 607009 project. There are 4 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 have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Cynthia Moon, Eric Caddey
EPI0706R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on July 1, 2016 by Friedman & Bruya, Inc. from the Environmental Partners Everett 71701.1, F&BI 607009 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Environmental Partners</u>
607009-01	EX-B3:12
607009-02	HA-1:7
607009-03	HA-2:7
607009-04	HA-3:7
607009-05	HA-4:7
607009-06	HA-5:7
607009-07	HA-6:7
607009-08	HA-7:7

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/06/16
 Date Received: 07/01/16
 Project: Everett 71701.1, F&BI 607009
 Date Extracted: 07/01/16
 Date Analyzed: 07/01/16

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
 FOR BENZENE, TOLUENE, ETHYLBENZENE,
 XYLENES AND TPH AS GASOLINE
 USING METHODS 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-150)
EX-B3:12 607009-01	0.14	0.038	0.065	<0.06	3.5	72
HA-1:7 607009-02	<0.02	<0.02	<0.02	<0.06	<2	69
HA-2:7 607009-03	<0.02	<0.02	<0.02	<0.06	<2	74
HA-3:7 607009-04	<0.02	<0.02	<0.02	<0.06	<2	71
HA-4:7 607009-05	<0.02	<0.02	<0.02	<0.06	<2	71
HA-5:7 607009-06	<0.02	<0.02	0.54	1.3	140	85
HA-6:7 607009-07	<0.02	<0.02	0.21	0.42	52	77
HA-7:7 607009-08	<0.02	<0.02	<0.02	<0.06	3.4	75
Method Blank 06-1329 MB	<0.02	<0.02	<0.02	<0.06	<2	66

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/06/16

Date Received: 07/01/16

Project: Everett 71701.1, F&BI 607009

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 607009-02 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	<0.02	<0.02	nm
Ethylbenzene	mg/kg (ppm)	<0.02	<0.02	nm
Xylenes	mg/kg (ppm)	<0.06	<0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	
			Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	75	69-120
Toluene	mg/kg (ppm)	0.5	82	70-117
Ethylbenzene	mg/kg (ppm)	0.5	88	65-123
Xylenes	mg/kg (ppm)	1.5	89	66-120
Gasoline	mg/kg (ppm)	20	95	71-131

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.

607009

SAMPLE CHAIN OF CUSTODY

ME 07/01/16

VSI

Send Report To Doug Knutzel, Eric Cuddy
 Company Environmental Partners, Inc
 Address 1180 NW Maple St, Ste 310
 City, State, ZIP Frasquah WA 98466
 Phone # 425-281-3629 Fax # _____

SAMPLERS (signature) [Signature]

PROJECT NAME/NO.

PO#

Everett/ 71701.1

REMARKS

Page # 1 of 1

TURNAROUND TIME

☐ Standard (2 Weeks)☒ 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
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS					
EX-B3:12	01A	6/30/16	11:21	Soil	4	X	X									
HA-1:7	02		13:30			X	X									
HA-2:7	03		14:20			X	X									
HA-3:7	04		14:49			X	X									
HA-4:7	05		15:35			X	X									
HA-5:7	06		16:00			X	X									
HA-6:7	07		16:48			X	X									
HA-7:7	08		16:18			X	X									

Samples received at 4 °C

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: <u>[Signature]</u>	Eric Cuddy	EPT	7/1/16	
Received by: <u>FoJ EX</u>	Sarah Underdown	Eedee	7-1-16	7:45 AM
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

July 7, 2016

Doug Kunkel, Project Manager
Environmental Partners, Inc.
1180 NW Maple St, Suite 310
Issaquah, WA 98027

RE: 71701, F&BI 607035

Dear Mr Kunkel:

Included are the results from the testing of material submitted on July 5, 2016 from the 71701, F&BI 607035 project. There are 4 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 have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Cynthia Moon
EPI0707R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on July 5, 2016 by Friedman & Bruya, Inc. from the Environmental Partners 71701, F&BI 607035 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Environmental Partners</u>
607035 -01	SW-10:7
607035 -02	SW-11:7
607035 -03	Ex-B5:12.5
607035 -04	Ex-B6:12

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/07/16
Date Received: 07/05/16
Project: 71701, F&BI 607035
Date Extracted: 07/05/16
Date Analyzed: 07/05/16

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING METHODS 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-132)
SW-10:7 607035-01	<0.02	<0.02	0.084	<0.06	4.4	94
SW-11:7 607035-02	<0.02	<0.02	<0.02	<0.06	<2	89
Ex-B5:12.5 607035-03	0.10	<0.02	<0.02	<0.06	3.2	89
Ex-B6:12 607035-04	<0.02	<0.02	0.72	0.53	62	103
Method Blank 06-1332 MB	<0.02	<0.02	<0.02	<0.06	<2	89

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/07/16

Date Received: 07/05/16

Project: 71701, F&BI 607035

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 607020-02 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	<0.02	<0.02	nm
Ethylbenzene	mg/kg (ppm)	<0.02	<0.02	nm
Xylenes	mg/kg (ppm)	<0.06	<0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	
			Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	93	66-121
Toluene	mg/kg (ppm)	0.5	98	72-128
Ethylbenzene	mg/kg (ppm)	0.5	99	69-132
Xylenes	mg/kg (ppm)	1.5	98	69-131
Gasoline	mg/kg (ppm)	20	100	61-153

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.

Report To Doug Dunkel
Company Environmental Partners
Address 1180 NW Maple St
City, State, ZIP Issaquah, WA
Phone _____ Email _____

SAMPLE CHAIN OF CUSTODY

ME 7/5/16

V5Z

Page # 1 of 1

SAMPLERS (signature)

PROJECT NAME

PO #

REMARKS

INVOICE TO

TURNAROUND TIME

□ Standard Turnaround

~~CRUSH~~ 24 hr

Rush charges authorized by:

SAMPLE DISPOSAL

☐ Dispose after 30 days

☐ Archive Samples

☐ Other[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>[Signature]</i>	<i>Elizabeth Webber-Bryant</i>	EPI	7/5/16	1625
Received by: <i>[Signature]</i>	<i>Eric [unclear]</i>	<i>FRB</i>	7/5/16	1625
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

July 20, 2016

Doug Kunkel, Project Manager
Environmental Partners, Inc.
1180 NW Maple St, Suite 310
Issaquah, WA 98027

RE: 71701.0, F&BI 607184

Dear Mr Kunkel:

Included are the results from the testing of material submitted on July 13, 2016 from the 71701.0, F&BI 607184 project. There are 4 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 have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Cynthia Moon
EPI0720R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on July 13, 2016 by Friedman & Bruya, Inc. from the Environmental Partners 71701.0, F&BI 607184 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Environmental Partners</u>
607184 -01	Ex-B7:14
607184 -02	Ex-B8:14
607184 -03	SW-12:7
607184 -04	SW-13:8
607184 -05	SW-14:8
607184 -06	Ex-B9:12

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/20/16
 Date Received: 07/13/16
 Project: 71701.0, F&BI 607184
 Date Extracted: 07/13/16
 Date Analyzed: 07/13/16 and 07/14/16

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
 FOR BENZENE, TOLUENE, ETHYLBENZENE,
 XYLENES AND TPH AS GASOLINE
 USING METHODS 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-132)
Ex-B7:14 607184-01	<0.02	<0.02	<0.02	<0.06	<2	89
Ex-B8:14 607184-02	0.083	0.74	1.3	4.2	220	114
SW-12:7 607184-03	<0.02	<0.02	0.043	<0.06	7.3	87
SW-13:8 607184-04	<0.02	<0.02	0.046	<0.06	8.8	88
SW-14:8 607184-05	<0.02	<0.02	0.034	<0.06	5.7	87
Ex-B9:12 607184-06	<0.02	<0.02	0.17	0.37	44	97
Method Blank 06-1373 MB	<0.02	<0.02	<0.02	<0.06	<2	86

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/20/16

Date Received: 07/13/16

Project: 71701.0, F&BI 607184

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 607176-03 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	<0.02	<0.02	nm
Ethylbenzene	mg/kg (ppm)	<0.02	<0.02	nm
Xylenes	mg/kg (ppm)	<0.06	<0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	
			Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	92	66-121
Toluene	mg/kg (ppm)	0.5	97	72-128
Ethylbenzene	mg/kg (ppm)	0.5	95	69-132
Xylenes	mg/kg (ppm)	1.5	95	69-131
Gasoline	mg/kg (ppm)	20	95	61-153

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.

SAMPLE CHAIN OF CUSTODY ME 7/13/16

Vs1

Report To Doug Kunkle
 Company EPI
 Address 180 NW Maple St
 City, State, ZIP Issaquah, WA
 Phone _____ Email _____

SAMPLER'S (signature) <u>Elizabeth Webber-Braya</u> 7/13	
PROJECT NAME <u>71701.0</u>	PO #
REMARKS	INVOICE TO

Page # 1 of 1

TURNAROUND TIME
☐ Standard Turnaround
☒ RUSH 24hr/ASAP
 Rush charges authorized by: _____

SAMPLE DISPOSAL
☐ Dispose after 30 days
☐ Archive Samples
☐ Other _____

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes
						TPH-HCID	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260C	SVOCs by 8270D	PAHs 8270D SIM				
Ex-B7:14	01A-D	7/13/16	0835	Soil	4			X	X							
Ex-B8:14	02A-D		1100													
SW-12:7	03A-D		1225													
SW-13:8	04A-D		1255													
SW-14:8	05A-D		1355													
Ex-B9:12	06A-D		1500													

Samples received at 3 °C

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

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>Elizabeth Webber-Braya</u>	Elizabeth Webber-Braya	EPI	7/13/16	1600
Received by: <u>Matt Lunn</u>	Matt Lunn	FBI Inc	7/13/16	1600
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

July 20, 2016

Doug Kunkel, Project Manager
Environmental Partners, Inc.
1180 NW Maple St, Suite 310
Issaquah, WA 98027

RE: 71701, F&BI 607214

Dear Mr Kunkel:

Included are the results from the testing of material submitted on July 14, 2016 from the 71701, F&BI 607214 project. There are 4 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 have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Cynthia Moon
EPI0720R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on July 14, 2016 by Friedman & Bruya, Inc. from the Environmental Partners 71701, F&BI 607214 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Environmental Partners</u>
607214 -01	SW-15:7
607214 -02	EX-B10:17.5
607214 -03	EX-B11:15.5
607214 -04	SW-16:7
607214 -05	EX-B12:10
607214 -06	SW-17:7

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/20/16
Date Received: 07/14/16
Project: 71701, F&BI 607214
Date Extracted: 07/14/16
Date Analyzed: 07/15/16

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING METHODS 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-132)
SW-15:7 607214-01	<0.02	<0.02	<0.02	<0.06	<2	78
EX-B10:17.5 607214-02	<0.02	<0.02	<0.02	<0.06	<2	88
EX-B11:15.5 607214-03	0.039	<0.02	<0.02	<0.06	<2	88
SW-16:7 607214-04	<0.02	<0.02	<0.02	<0.06	<2	88
EX-B12:10 607214-05	<0.02	<0.02	<0.02	<0.06	<2	88
SW-17:7 607214-06	<0.02	<0.02	<0.02	<0.06	<2	87
Method Blank 06-1377 MB	<0.02	<0.02	<0.02	<0.06	<2	89

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/20/16

Date Received: 07/14/16

Project: 71701, F&BI 607214

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 607214-01 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	<0.02	<0.02	nm
Ethylbenzene	mg/kg (ppm)	<0.02	<0.02	nm
Xylenes	mg/kg (ppm)	<0.06	<0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	
			Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	82	66-121
Toluene	mg/kg (ppm)	0.5	86	72-128
Ethylbenzene	mg/kg (ppm)	0.5	85	69-132
Xylenes	mg/kg (ppm)	1.5	85	69-131
Gasoline	mg/kg (ppm)	20	90	61-153

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

Report To Doug Kunkle
Company EPI
Address 1180 NW Maple St
City, State, ZIP Kissaquah, WA
Phone _____ Email _____

SAMPLE CHAIN OF CUSTODY

ME 7/14/14

VS

Page # 1 of 1

TURNAROUND TIME

☐ Standard Turnaround
☒ RUSH 24/ASAP
Rush charges authorized by:

SAMPLE DISPOSAL

☐ Dispose after 30 days
☐ Archive Samples
☐ Other

SAMPLERS (signature) <i>[Signature]</i>	
PROJECT NAME 71701	PO #
REMARKS	INVOICE TO

						ANALYSES REQUESTED													
Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	TPH-HCID	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260C	SVOCs by 8270D	PAHs 8270D SIM					Notes		
SW-15:7	01 A-D	7/14	0840	Soil	4			X	X										
Ex-B10:17.5	02	↓	1030	↓	↓			↓	↓										
Ex-B11:15.5	03					1210													
SW-16:7	04					1435													
Ex-B12:10	05					1440													
SW-17:7	06 ↓		↓			1535	↓	↓			↓	↓							

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

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <i>[Signature]</i>	Elizabeth Walker - Bruns	EPI	7/14	1635
Received by: <i>[Signature]</i>	Elizabeth Rodford	F&B	7/14	1635
Relinquished by:				
Received by:				