

# UNDERGROUND STORAGE TANK DECOMMISSIONING

**FRONTIER COMMUNICATIONS - KIRKLAND**  
**12055 SLATER AVENUE NE**  
**KIRKLAND, WASHINGTON 98033**  
(FACILITY ID NO. 2555)

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MAY 30 2013

DEPT OF ECOLOGY  
TCP - NWRO

UST #12327



Prepared for:



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May 23, 2013

ENW Project No. 351-13010-01

UNDERGROUND STORAGE TANK DECOMMISSIONING

FRONTIER COMMUNICATIONS - KIRKLAND  
12055 SLATER AVENUE NE  
KIRKLAND, WASHINGTON 98033  
(FACILITY ID NO. 2555)

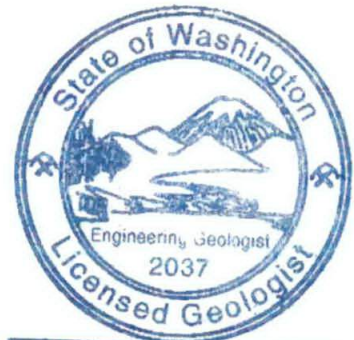
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A handwritten signature in blue ink, appearing to read "Lynn D. Green", is written over a horizontal line.



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Lynn D. Green, L.E.G., Licenced Site Assessor, ENW 

Reviewed by:

A handwritten signature in blue ink, appearing to read "Brent Jorgensen", is written over a horizontal line.

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Brent Jorgensen, Project Manager, Creekside

May 23, 2013

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## ACRONYMS AND ABBREVIATIONS

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Client	Clean Fuels National
Creekside	Creekside Environmental, LLC
CULs	Ecology Method A Cleanup Levels
Ecology	State of Washington Department of Ecology
ENW	EVREN Northwest, Inc.
MTCA	Model Toxics Control Act
NWTPH-HCID	Northwest Total Petroleum Hydrocarbons – Hydrocarbon Identification analysis
PID	photoionization detector
SOW	scope of work
USTs	underground storage tank
VOCs	volatile organic compounds
WAC	Washington Administrative Code

## EXECUTIVE SUMMARY

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At the request of Clean Fuels National and on behalf of Frontier Communications, Creekside Environmental, LLC and EVREN Northwest Inc. supervised underground storage tank decommissioning at the Frontier Communications refueling site at 12055 Slater Avenue NE, Kirkland, Washington. From April 22 through May 3, 2013, one 10,000-gallon gasoline underground storage tank and one 5,000-gallon diesel underground storage tank were decommissioned by removal according to national standards of practice. Fuel dispensing facilities were also decommissioned. All wastes were properly recycled or disposed.

Assessment soil samples were collected below the ends and middle of each tank, from the soil / ground-water interfaces at 8 feet below ground surface, below the product lines, and below the two product dispensers. One reconnaissance ground-water sample was collected from water the diesel tank excavation. All samples were below the analytical method detection limits of all ranges of petroleum hydrocarbons by analytical method NWTPH-HCID, indicating no petroleum releases occurred. Therefore the site meets Washington's Model Toxic Cleanup Act (MTCA) Method A Cleanup Levels and does not require remediation. A copy of this report should be submitted to the Washington Department of Ecology for their records.

## 1.0 INTRODUCTION

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At the request of Clean Fuels National and on behalf of Frontier Communications, Creekside Environmental, LLC (Creekside) and EVREN Northwest, Inc. (ENW) have prepared this report documenting the decommissioning of two registered underground storage tanks (USTs) at the Frontier Communications facility located at 12055 Slater Avenue NE in Kirkland Washington (subject site; Figures 1 and 2). One 10,000-gallon gasoline UST and one 5,000-gallon diesel UST were removed from the subject site.

### 1.1 Background

Clean Fuels National is removing its refueling facilities at all Frontier Communications properties in Oregon and Washington.

In 1993 a petroleum release was reported at the subject property. At that time one 10,000-gallon gasoline UST, one 500-gallon waste oil UST, and an underground oil-water separator were located west of the garage, located in the southern portion of the property. In addition a gasoline dispenser was located on the north side of the garage, and an 8,000-gallon previously decommissioned-in-place gasoline UST was located west of the office building (located in the northern portion of the property). All three USTs were removed from the site in 1994. After removal of approximately 200 cubic yards of impacted soil, AGI Technologies reported that soil and ground-water impacts associated with the three USTs were within Washington State cleanup levels (CULs).

However, soil impacts above the CULs were present associated with the fuel dispenser location. Despite the removal of approximately 75 cubic yards of soil to address the release at the former fuel dispenser location, impacted soils were allowed to remain in place in the walls of the excavation near underground utilities, under the building foundation, and in a storm water pipe's bedding material. Seepage of perched ground water with hydrocarbon-like sheen was observed in the soil removal excavation from the remaining impacted soils. Ground water believed to be perched on a silt layer at a depth of around 4 feet below ground surface was impacted. AGI Technologies estimated soil impacts were limited to within about 20 feet of the former dispenser location. AGI installed a sump for pumping impacted ground water to a Baker tank and installed monitoring wells to address impacts to ground water.

After reviewing documents<sup>1,2,3,4,5,6,7,8</sup> submitted on behalf of the owners of the site and implementation of a deed restriction with King County, the Washington Department of Ecology

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<sup>1</sup> AGI Technologies, August 12, 1993, *Groundwater Monitoring Status Report*

<sup>2</sup> AGI Technologies, September 2, 1993, *Contamination Assessment Report*

<sup>3</sup> AGI Technologies, May 6, 1994, *Groundwater Monitoring Letter Report*

<sup>4</sup> AGI Technologies, August 23, 1994, *Groundwater Monitoring Letter Report*

<sup>5</sup> AGI Technologies, November 22, 1994, *Cleanup Documentation and Reporting Forms*

<sup>6</sup> AGI Technologies, February 27, 1995, *Supplemental Information IRAP Reporting*

<sup>7</sup> AGI Technologies, March 21, 1995, *Final Groundwater Monitoring Results*

(Ecology) issued a No Further Action letter dated August 21, 1995, that stated the site no longer posed a threat to human health or the environment. The regulatory closure was specifically limited to those areas of the site where petroleum releases had been reported and addressed.

## 1.2 Scope

ENW performed the following scope of work (SOW) for this project:

- Reviewed Ecology's files regarding the site.
- Performed a utility locate to provide excavation clearance at the site.
- Contracted with an excavating company to provide tank removal services.
- Disconnected, drained and flushed all lines from the two dispensers on the pump island.
- Pumped and cleaned both tanks and associated product lines.
- Supervised decommissioning of the tanks by removal and appropriate disposal of all wastes.
- Collected subsurface assessment soil samples and a ground-water sample for laboratory analyses.
- Submitted samples to an independent laboratory for selected analytical procedures.
- Evaluated analytical results with respect to Washington State Toxics Control Act (MTCA) Method A Cleanup Levels (CULs) and associated Ecology guidance documents.
- Backfilled excavation (with compaction) and restored surface with asphalt.
- Prepared this report and required Ecology forms and checklists.

The field activities described in this report were performed April 2013.

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<sup>8</sup> AGI Technologies, August 8, 1995, *Deed Restriction*

## 2.0 SITE SETTING

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### 2.1 Topography

The subject site is located within the US Geological Survey Bellevue North 7.5-minute quadrangle, at an approximate elevation of 171 feet above mean sea level (Figure 1). The site is approximately level. The local topographic slope is very gentle toward the northeast.

### 2.2 Geologic Setting

Geologic mapping in the area indicates that the site is underlain by Quaternary outwash sands of the Pleistocene continental ice sheets<sup>9</sup>. The alluvial deposits reportedly consist of sands and some gravels.

### 2.3 Hydrogeologic Setting

#### 2.3.1 Surface Water

Topographic mapping by the US Geological Survey indicates that this portion of Kirkland slopes gently to the northeast. Consequently surface drainage, where unmodified, is also generally toward the northeast. No wetlands or other surface water bodies are present in the immediate vicinity of the subject site.

#### 2.3.2 Ground Water

A shallow water-bearing unit was encountered at approximately 8 feet below ground surface during the decommissioning activities described in this report. Based on topography and hydrology, ground-water flow direction should be toward the northeast.

The shallow water-bearing unit is the primary water-bearing geologic formations (aquifers) in the vicinity, and is surface alluvium and several glacially-deposited formations (Vashon till, Vashon recessional outwash, and Vashon advance outwash).

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<sup>9</sup> Dragovich, J.D., et al. 2002. Geologic Map of Washington - Northwest Quadrant: Washington Division of Geology and Earth Resources, Geologic Map GM-50.

## 3.0 METHODS AND PROCEDURES

---

This section describes the methods and procedures used to collect and evaluate soil samples. Work performed for this project was developed with the following specific objectives:

- To perform the soil assessment efficiently and cost-effectively, without interfering or otherwise affecting with the condition and operation of the property.
- To perform the soil assessment in a safe manner for technical personnel.
- To document information and data generated under this statement of work that is valid for the intended use.

Field activities for this project were performed from April 22 through May 3, 2013. Field activities were photographed, and a photographic log is included as Appendix A. Figures 3 through 5 show the area of decommissioning and sampling locations.

### 3.1 Tank Decommissioning

Decommissioning of the UST systems was based on the procedures referenced in the following documents:

- American Petroleum Institute 2015, "Cleaning Petroleum Storage Tanks," 1994.
- Ecology's "Underground Storage Tank Regulations", Chapter 173-360 WAC, dated August 2012.

Prior to decommissioning the tanks, a 30-day notification was completed and submitted to Ecology, and an extension was subsequently granted by that agency. Forms required by Ecology for the decommissioning activities are presented in Appendix B.

The decommissioning was performed from April 22 through May 3, 2013 as follows (note: both tanks were double-walled fiberglass construction):

- The power to the dispensers was turned off, and the dispensers were dismantled. Both diesel and gasoline tanks were pumped out by Emerald Services. Product lines to the dispensers were drained back into the tanks and flushed with detergent and water.
- The tanks were pumped out and rinsed to remove all product and sludge.
- The tanks were inerted with dry ice.
- Due to the presence of shallow pit water during tank excavation, pit water was pumped into each UST to ballast the UST prior to removal. Once the elevation of water in the tank was equal to the elevation of water in the excavation, the tank was rigged to the excavator and the tank anchors (to deadmen) were cut. The water was then pumped from the tank, and as the tank rose in the excavation, the excavator adjusted tension to



keep the tank steady. Once all the water was pumped from the UST the tank was removed from the excavation and set on sheet plastic.

- The leak-detection fluid (propylene glycol) present in the interstitial space was then pumped through holes cut in the outer shell of each UST.
- The tanks were then placed in drop boxes for offsite disposal.
- The excavations were backfilled with clean materials and compacted in lifts.
- The pavement surface was restored.

### 3.2 Soil Sampling Methodology

Soil logging and sample collection was performed by an ENW staff. Sampling was performed by transferring freshly excavated materials in the excavator bucket into sample containers provided by the analytical laboratory with fresh Nitrile gloves. The containers were immediately sealed with minimal interior headspace. The samples were each marked with a distinctive designation, the date, time, project number, and sampler's name, and then immediately placed in cooled storage until delivered to the laboratory under chain-of-custody protocols. Selected soils were also placed in Ziploc bags for headspace screening with a photoionization detector (PID) and field identification.

The gasoline tank (north tank) was assigned the designation "T1" for this report, and the diesel tank (south tank) was assigned the designation "T2". Some samples were collected from the soil / ground-water interface in the excavation sidewalls (indicated by an "-INT-[depth in feet]" in the sample name, e.g. GS08-T2-INT-8 indicates grab sample number 8 from the soil / ground-water interface of the diesel tank excavation at 8 feet below grade). Other soil samples were collected from the excavation floors under the tanks after their removals (e.g., GS09-T1-WF-12 indicates grab sample number 9 from the west floor of the gasoline tank excavation at 12 feet below grade]. "PL" in a sample name indicates "collected below product line", and "PD" in a sample name indicates "collected below product dispenser", both designations also with an appended depth in feet below grade.

### 3.3 Reconnaissance Pit-Water Sampling Methodology

Ground water was present in the tank excavation at 8 feet below ground surface. A clean PVC well screen, fitted with clean polyethylene tubing to the bottom of the screen, was placed in the excavation. The upper end of the tubing was connected to a peristaltic pump. The water sampled for hydrocarbon identification analysis (NWTPH-HCID) was collected in one (1)-liter Boston Round container preserved with an aliquot of hydrochloric acid. Water sampled for volatile organic constituent (VOC) analyses were collected in 40-milliliter volatile organic analysis vials prepared with aliquots of hydrochloric acid. These vials were filled completely to eliminate headspace and immediately sealed.

All samples were immediately placed in cooled storage until they were delivered to the laboratory following chain-of-custody protocols.



### 3.4 Analytical Methods

Laboratory analyses were performed by Friedman & Bruya Inc. of Seattle, Washington. A copy of the laboratory analytical report is included as Appendix C. All samples were analyzed by laboratory method NWTPH-HCID (Northwest Method Total Petroleum Hydrocarbons-Hydrocarbon Identification) as indicated in Table 3-1, below. The NWTPH-HCID method is qualitative, and would require further analyses for quantification if petroleum hydrocarbons were to be identified by the method.

Table 3-1. Analytical Plan

Analytical Method	Constituents	Soil	Ground Water
NWTPH-HCID	Total Petroleum Hydrocarbons – Hydrocarbon Identification	All samples	Sample collected from water in tank excavation
EPA 8020B	Benzene, Toluene, Ethylbenzene, Xylenes	Soil / ground-water interface samples	Sample collected from water in tank excavation

### 3.5 Applicable Cleanup Standards

The State of Washington MTCA Regulations (Chapter 173-340 of the Washington Administrative Code) sets numeric cleanup levels for “routine cleanup actions”. “Routine cleanup actions” are defined as those sites where: 1) cleanup standards for each hazardous substance are obvious and undisputed, allowing for an adequate margin of safety for protection of human health and the environment; 2) does not require preparation of an environmental impact statement, and 3) qualifies for an exclusion from conducting a terrestrial ecological evaluation. Cleanup levels (CULs) are defined as the concentration of a hazardous substance in soil, water, air, or sediment that is determined to be protective of human health and the environment under specified exposure conditions.

### 3.6 Waste Disposal

The fiberglass tank shells were taken to Waste Management’s landfill in Arlington, Oregon, for disposal<sup>10</sup>. Fluid wastes were removed by Emerald Services of Seattle, Washington for recycling<sup>11</sup> and disposal<sup>12</sup>. All receipts are included in Appendix D. The site has been restored with new pavement over the former tank and dispenser island locations.

<sup>10</sup> 8,22 tons of fiberglass tank shells

<sup>11</sup> 272-gallons of mixed gasoline and diesel product from the USTs and dispensers

<sup>12</sup> 2853-gallons of oily waste water from the USTs and 8,190-gallons of pit/UST ballast water

## 4.0 FINDINGS

The 10,000-gallon gasoline UST and 5,000-gallon diesel UST were decommissioned by removal as described in Section 3.1 and as depicted by photographs in Appendix A. After removal, ENW collected soil samples and one reconnaissance ground water sample from the tank excavation to evaluate for residual petroleum hydrocarbon impacts from the UST systems. Table 4-1 summarizes the sampling performed at the site.

**Table 4-1. Sampling Summary**

Medium	Sample Location Identification	Sample ID	Date Sampled	Depth Sampled (feet bgs)	Sampled by:	Location and Comments
Soil	GS01	GS01-T2-PD-3	4/23/2013	3	ENW	Under diesel product dispenser
	GS02	GS02-T2-PL-5-3S	4/23/2013	5	ENW	Under diesel product line
	GS03	GS03-T1-PD-3	4/23/2013	3	ENW	Under gasoline product dispenser
	GS04	GS04-T1-PL-2.5-3N	4/23/2013	2.5	ENW	Under gasoline product line
	GS05	GS05-T2-EF-12	4/23/2013	12	ENW	Floor confirmation sample under east end of diesel tank
	GS06	GS06-T2-MF-12	4/23/2013	12	ENW	Floor confirmation sample under center of diesel tank
	GS07	GS07-T2-WF-12	4/23/2013	12	ENW	Floor confirmation sample under west end of diesel tank
	GS08	GS08-T2-INT-8	4/24/2013	8	ENW	South side soil-groundwater interface sample, south of diesel tank
	GS09	GS09-T1-WF-12	4/24/2013	12	ENW	Floor confirmation sample under west end of gasoline tank
	GS10	GS10-T1-MF-12	4/24/2013	12	ENW	Floor confirmation sample under center floor of gasoline tank
	GS11	GS11-T1-EF-12	4/24/2013	12	ENW	Floor confirmation sample under east end of gasoline tank
	GS12	GS12-T1-INT-8	4/24/2013	8	ENW	North side soil-groundwater interface sample, north of gasoline tank
	SP01	SP01-COMP	4/24/2013	N/A	ENW	Temporary soil stockpile to west of diesel tank
SP02	SP02-COMP	4/24/2013	N/A	ENW	Temporary soil stockpile to south of diesel tank	
Reconnaissance Ground Water	PW01	PW01-8	8-10 feet	Water	4/24/2013	Groundwater in excavation, south side diesel tank

Laboratory analytical results are summarized in Tables 1 and 2 (following Tables Tab after text). Sampling locations are depicted on Figures 4 and 5.

No field indications of petroleum impacts were observed in association with the tank systems. Assessment soil samples were collected below the ends and middle of each tank, from the soil / ground-water interfaces at 8 feet below ground surface, below the product lines, and below the two product dispensers. Laboratory analytical results confirmed that all soil samples were below the detection limits for all ranges of petroleum hydrocarbons by NWTPH-HCID (Table 1).

Ground water was present in the tank excavation at 8 feet below ground surface. A reconnaissance ground-water sample was collected from the excavation and analyzed by the laboratory. The water sample was "nondetect" for all ranges of petroleum hydrocarbons by NWTPH-HCID and for benzene, toluene, ethylbenzene, and xylenes (Table 2). Therefore ground water did not have any detectable petroleum impacts.

Since the site is below MTCA Method A Cleanup Levels for both soil and ground water, no further cleanup is required. A copy of this report should be submitted to the Washington Department of Ecology for their records.

## 5.0 LIMITATIONS

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The scope of this report is limited to observations made during on-site work; interviews with knowledgeable sources; and review of readily available published and unpublished reports and literature. As a result, these conclusions are based on information supplied by others as well as interpretations by qualified parties.

The focus of the site closure does not extend to the presence of the following conditions unless they were the express concerns of contacted personnel, report and literature authors or the work scope.

1. Naturally occurring toxic or hazardous substances in the subsurface soils, geology and water,
2. Toxicity of substances common in current habitable environments, such as stored chemicals, products, building materials and consumables,
3. Contaminants or contaminant concentrations that are not a concern now but may be under future regulatory standards,
4. Unpredictable events that may occur after Creekside's and ENW's site work, such as illegal dumping or accidental spillage.

There is no practice that is thorough enough to absolutely identify the presence of all hazardous substances that may be present at a given site. Creekside's and ENW's investigation has been focused only on the potential for contamination that was specifically identified in the SOW. Therefore, if contamination other than that specifically mentioned is present and not identified as part of a limited SOW, Creekside's and ENW's environmental investigation shall not be construed as a guaranteed absence of such materials. Creekside and ENW have endeavored to collect representative analytical samples for the locations and depths indicated in this report. However, no sampling program can thoroughly identify all variations in contaminant distribution.

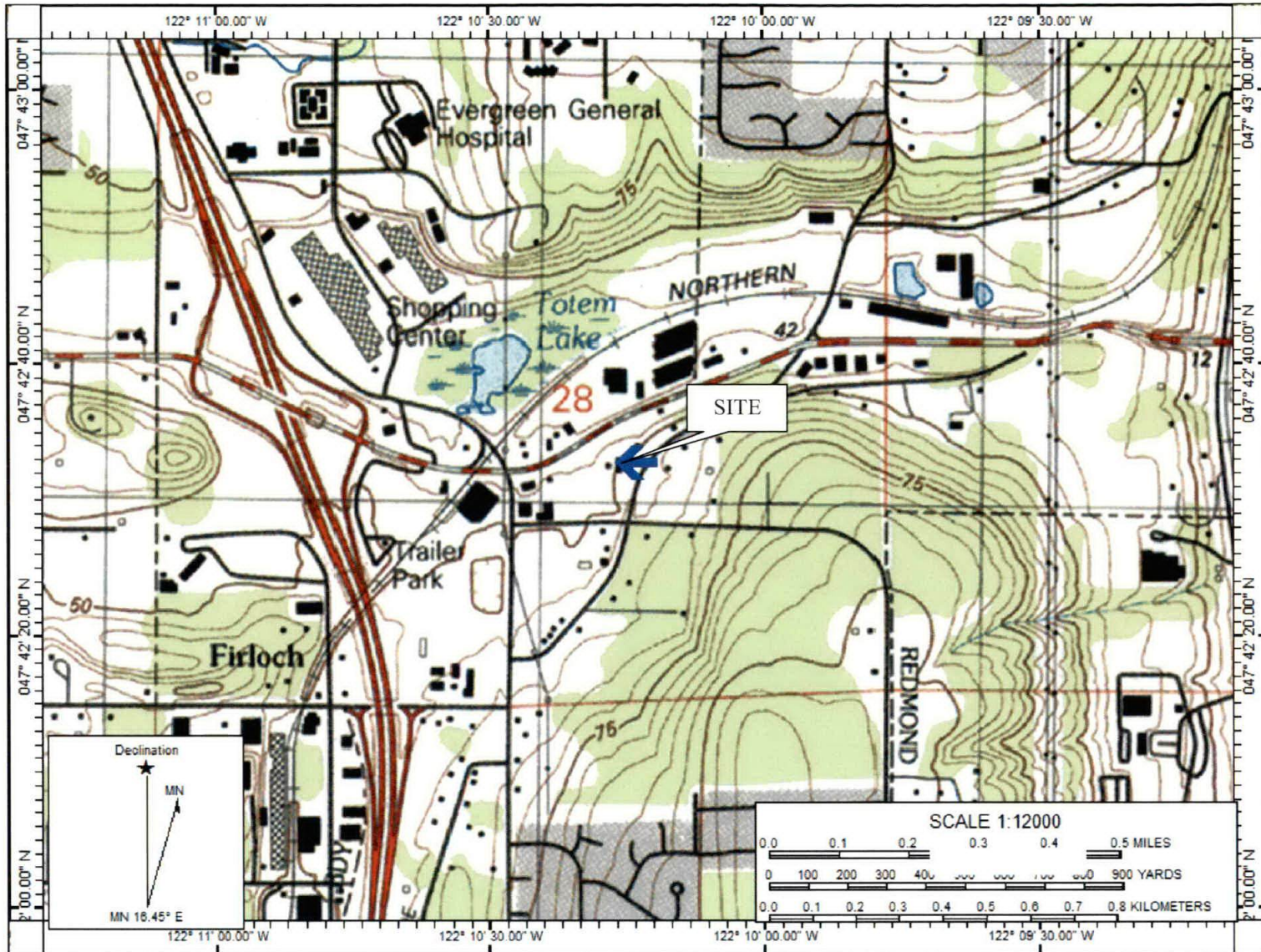
We have performed our services for this project in accordance with our agreement and understanding with the client. This document and the information contained herein have been prepared solely for the use of the client.

Creekside and ENW performed this study under a limited scope of services per our agreement. It is possible, despite the use of reasonable care and interpretation, that Creekside and ENW may have failed to identify regulation violations related to the presence of hazardous substances other than those specifically mentioned at the closure site. Creekside and ENW assumes no responsibility for conditions that we did not specifically evaluate or conditions that were not generally recognized as environmentally unacceptable at the time this report was prepared.

## FIGURES

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Name: BELLEVUE NORTH (WA)  
Date: 1982 / Revised: N/A

Location: 047° 42' 31.51" N 122° 10' 14.18" W

Source: USGS Topographic Map, 7.5-Minute Bellevue North, WA Quadrangle, 1982.



Date Drawn: 5/12/2013  
CAD File Name: 351-13010svmap  
Drawn By: KMC  
Approved By: LDG

Frontier Communications - Kirkland  
12055 NE Slater Avenue  
Kirkland, Washington

## Site Vicinity Map

Project No.  
351-13010





Figure No.

1

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 CHECKED BY L.GREEN 03/29/2013  
 APPROVED BY N.WOLLER 03/29/2013  
 DRAWING NUMBER 351-13010(v01)

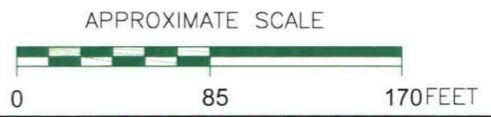


LEGEND:

-  APPROXIMATE BUILDING LOCATIONS
-  APPROXIMATE PROPERTY BOUNDARIES
-  APPROXIMATE SUBJECT PROPERTY BOUNDARIES
-  APPROXIMATE SUBJECT BUILDINGS

NOTES:

1. BASE MAP DEVELOPED FROM AN AERIAL PHOTOGRAPH MAP DATED 2012 AND APPLIED GEOTECHNOLOGY, INC. DATED 1993





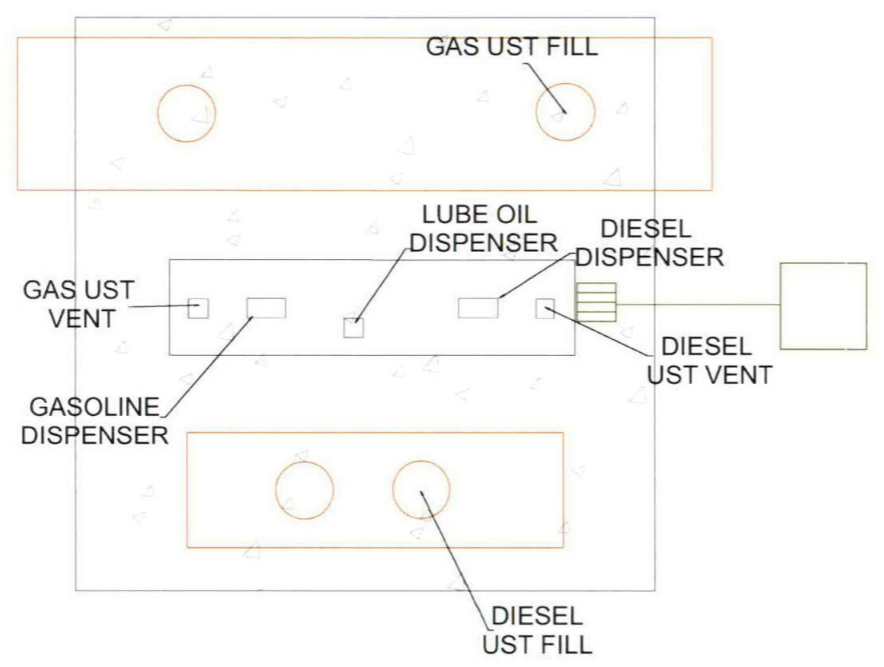
environmental natural resource consultants

PO BOX 14488, PORTLAND, OREGON 97293  
 (503)452-5561 Fax(503)452-7669

**FIGURE 2**  
**SITE PLAN**  
 FRONTIER KIRKLAND SUPPORT CENTER  
 12055 NE SLATER AVENUE  
 KIRKLAND, WASHINGTON



DRAWING 351-13010(v02)  
 APPROVED BY P. TRONE 04/29/2013  
 CHECKED BY L. GREEN 04/29/2013  
 DRAWN BY K. CLINE 04/26/2013



LEGEND:

- APPROXIMATE LOCATION OF UST
- CATCH BASIN (REMOVED AND CAPPED)
- SPILL CONTROL VAULT (REMAINS)

UST: UNDERGROUND STORAGE TANK

NOTES:

1. BASE MAP DEVELOPED FROM AN AERIAL PHOTOGRAPH MAP DATED 2012, APPLIED GEOTECHNOLOGY, INC. DATED 1993, AND ENW FIELD NOTES



EVREN NORTHWEST INC.  
 environmental natural resource consultants

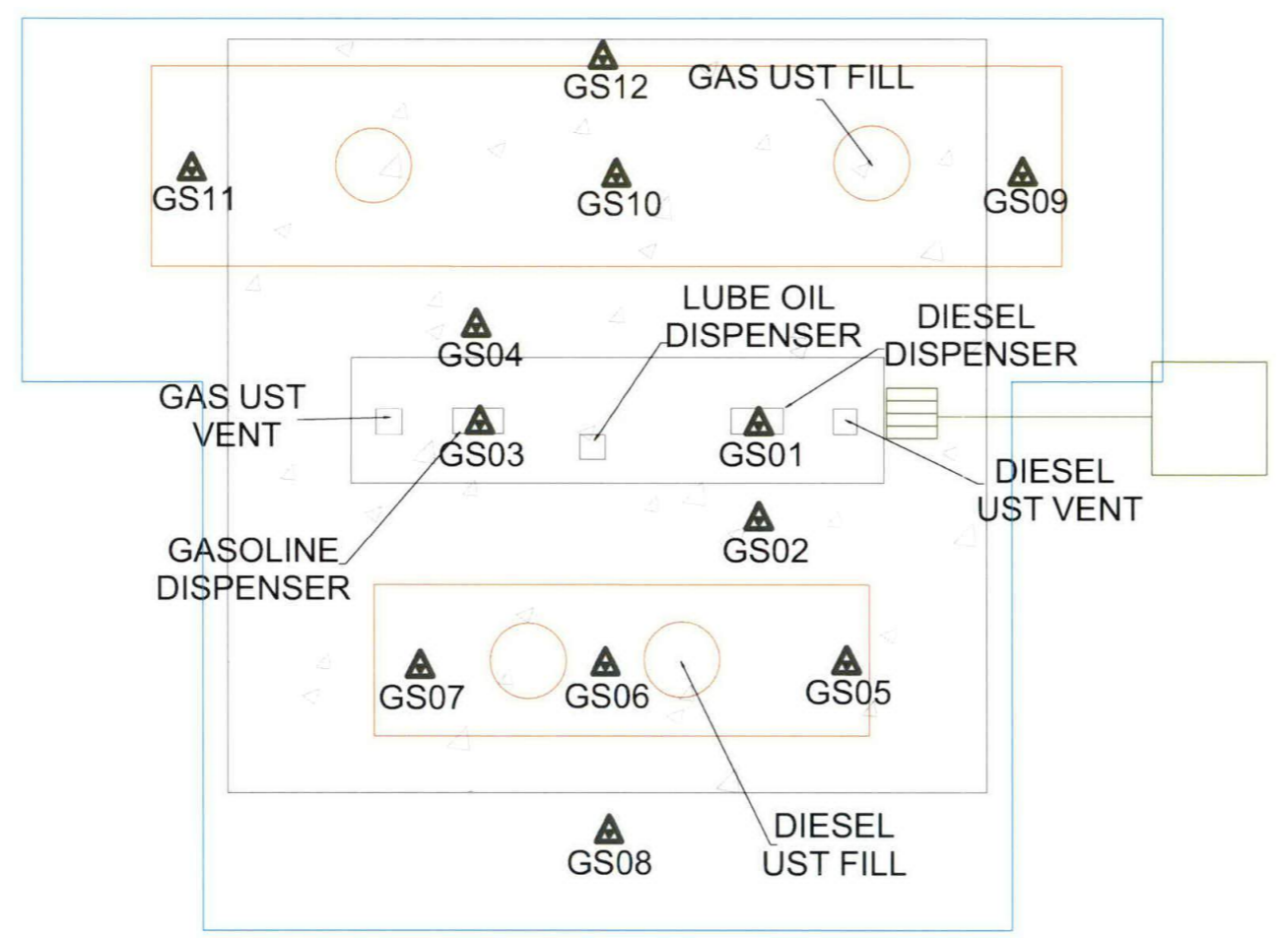
PO BOX 14488, PORTLAND, OREGON 97293  
 (503)452-5561 E-MAIL: ENW@EVREN-NW.COM

**FIGURE 3**  
**UST SYSTEM**

FRONTIER KIRKLAND SUPPORT CENTER  
 12055 NE SLATER AVENUE  
 KIRKLAND, WASHINGTON



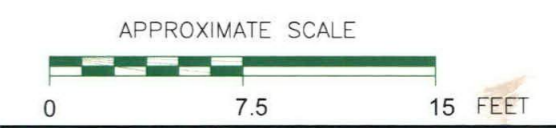
DRAWING 351-13010(v02)  
 APPROVED BY P. TRONE 04/29/2013  
 CHECKED BY L. GREEN 04/29/2013  
 DRAWN BY K. CLINE 04/29/2013



- LEGEND:
- APPROXIMATE LOCATION OF UST
  - APPROXIMATE MARGINS OF UST EXCAVATION
  - APPROXIMATE ENW GRAB SAMPLE LOCATION (2013)
  - CATCH BASIN (REMOVED AND CAPPED)
  - SPILL CONTROL VAULT (REMAINS)

NOTES:

1. BASE MAP DEVELOPED FROM AN AERIAL PHOTOGRAPH MAP DATED 2012, APPLIED GEOTECHNOLOGY, INC. DATED 1993, AND ENW FIELD NOTES



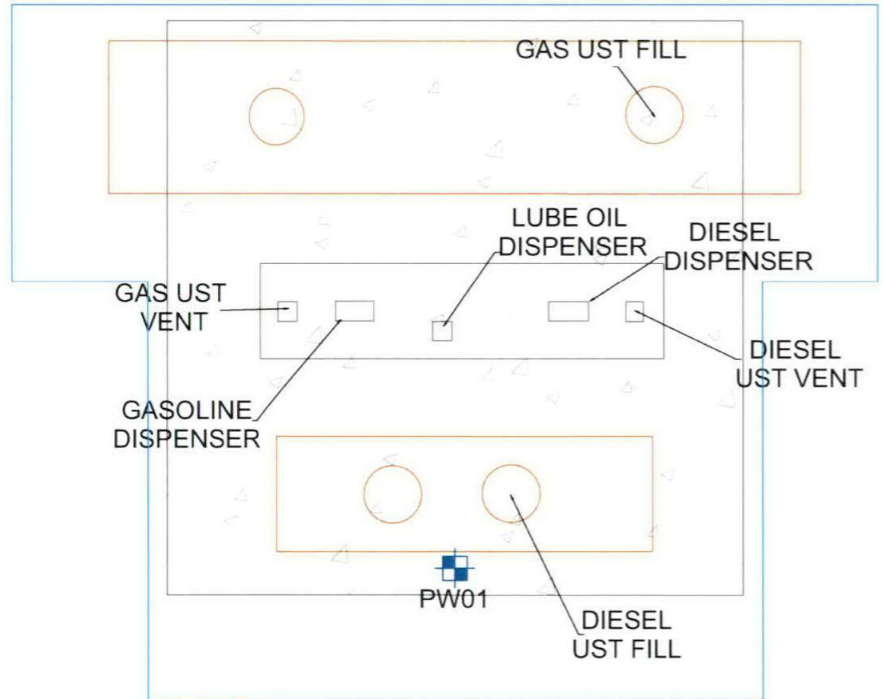


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**FIGURE 4**  
**SAMPLE LOCATION DIAGRAM**  
**(ASSESSMENT SOIL SAMPLES)**  
 FRONTIER KIRKLAND SUPPORT CENTER  
 12055 NE SLATER AVENUE  
 KIRKLAND, WASHINGTON

DRAWING 351-13010(v02)  
 NUMBER  
 DRAWN BY K. CLINE 04/29/2013  
 CHECKED BY L. GREEN 04/29/2013  
 APPROVED BY P. TRONE 04/26/2013

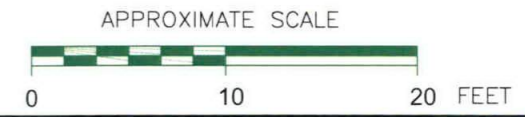


LEGEND:

-  APPROXIMATE LOCATION OF UST
-  APPROXIMATE EXCAVATION LOCATION
- PW01
-  ENW ASSESSMENT SAMPLE LOCATION

NOTES:

1. BASE MAP DEVELOPED FROM AN AERIAL PHOTOGRAPH MAP DATED 2012, APPLIED GEOTECHNOLOGY, INC. DATED 1993, AND ENW FIELD NOTES





environmental, natural resource consultants

PO BOX 14488, PORTLAND, OREGON 97293  
 (503)452-5561 Fax(503)452-7669

**FIGURE 5**  
**SAMPLE LOCATION DIAGRAM**  
 (RECONNAISSANCE GROUND WATER SAMPLE)

FRONTIER KIRKLAND SUPPORT CENTER  
 12055 NE SLATER AVENUE  
 KIRKLAND, WASHINGTON

## TABLES

---

Table 1 - Summary of Analytical Data, Soil

Sample ID	GS01-T2-PD-3	GS02-T2-PL-5-3S	GS03-T1-PD-3	GS04-T1_PL-2-5-3N	GS05-T2-EF-12	GS06-T2-MF-12	GS07-T2-WF-12	GS08-T2-INT-8	GS09-T1-WF-12	GS10-T1-MF-12	GS11-T1-EF-12	GS12-T1-INT-8	SP01-COMP	SP02-COMP	Maximum Residual Soil Concentration (remaining soil)	MTCA Method A Soil Cleanup Levels for Unrestricted Land Uses	Constituent of Potential Concern (COPC)?	
Date Sampled	4/23/2013	4/23/2013	4/23/2013	4/23/2013	4/23/2013	4/23/2013	4/23/2013	4/24/2013	4/24/2013	4/24/2013	4/24/2013	4/24/2013	4/24/2013	4/24/2013				
Depth Sampled (feet below grade)	3	5	3	2.5	12	12	12	8	12	12	12	8	N/A	N/A				
Sampled by:	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW				
Location	Under diesel product dispenser	Under diesel product line	Under gasoline product dispenser	Under gasoline product line	Floor confirmation sample under east end of diesel tank	Floor confirmation sample under center of diesel tank	Floor confirmation sample under west end of diesel tank	South side soil-groundwater interface sample, south of diesel tank	Floor confirmation sample under west end of gasoline tank	Floor confirmation sample under center floor of gasoline tank	Floor confirmation sample under east end of gasoline tank	North side soil-groundwater interface sample, north of gasoline tank	Temporary soil stockpile to west of diesel tank	Temporary soil stockpile to south of diesel tank				
Constituent of Interest	Note	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	Y / N	
<b>Volatile Organic Constituents (VOCs)</b>																		
Benzene	c, v	---	---	---	---	---	---	<0.02 (ND)	---	---	---	<0.02 (ND)	---	---	<0.02 (ND)	0.03	N	
Ethylbenzene	nc, v	---	---	---	---	---	---	<0.02 (ND)	---	---	---	<0.02 (ND)	---	---	<0.02 (ND)	6	N	
Toluene	nc, v	---	---	---	---	---	---	<0.02 (ND)	---	---	---	<0.02 (ND)	---	---	<0.02 (ND)	7	N	
Xylenes	nc, v	---	---	---	---	---	---	<0.06 (ND)	---	---	---	<0.06 (ND)	---	---	<0.06 (ND)	9	N	
<b>Total Petroleum Hydrocarbons</b>																		
GRO	nc, v	<20 (NP)	<20 (NP)	<20 (NP)	<20 (NP)	<20 (NP)	<20 (NP)	<20 (NP)	<20 (NP)	<20 (NP)	<20 (NP)	<20 (NP)	<20 (NP)	<20 (NP)	<20 (NP)	<20 (NP)	100	N
DRO	nc, nv	<50 (NP)	<50 (NP)	<50 (NP)	<50 (NP)	<50 (NP)	<50 (NP)	<50 (NP)	<50 (NP)	<50 (NP)	<50 (NP)	<50 (NP)	<50 (NP)	<50 (NP)	<50 (NP)	<50 (NP)	2000	N
RRO	nc, nv	<250 (NP)	<250 (NP)	<250 (NP)	<250 (NP)	<250 (NP)	<250 (NP)	<250 (NP)	<250 (NP)	<250 (NP)	<250 (NP)	<250 (NP)	<250 (NP)	<250 (NP)	<250 (NP)	<250 (NP)		N

Notes:  
 NP = not present based on NWTPH-HCID (hydrocarbon identification) analysis, detection limit in parenthesis  
 --- = not analyzed  
 < = not detected at or above the method reporting limit shown.  
 mg/Kg = milligram per kilogram.  
 nc = noncarcinogenic  
 v = volatile  
 nv = nonvolatile  
 GRO = gasoline-range organics.  
 DRO = diesel-range organics.  
 RRO = residual-range organics.



**Table 2 - Summary of Analytical Data, Reconnaissance Ground Water**

Location ID		PW01		Maximum Ground Water Concentration	MTCA Method A Cleanup Levels for Groundwater	Constituent of Potential Concern (COPC)? <sup>3</sup>
Sample ID		PW01-8				
Depth to Water		8 feet				
Screen Interval		8-10 feet				
Sample Type		Water				
Date Sampled		4/24/2013				
Location		Ground water in excavation, south side diesel tank				
Constituent of Interest	Note	µg/L (ppb)	µg/L (ppb)	µg/L (ppb)	Y/N	
<b>Volatile Organic Constituents (VOCs)</b>						
Benzene	c, v	<1 (ND)	<1 (ND)	5	N	
Ethylbenzene	c, v	<1 (ND)	<1 (ND)	700	N	
Toluene	nc, v	<1 (ND)	<1 (ND)	1000	N	
Xylenes	nc, v	<3 (ND)	<3 (ND)	1000	N	
<b>Total Petroleum Hydrocarbons</b>						
GRO	nc, v	<200 (NP)	<200 (ND)	800	N	
DRO	nc, nv	<500 (NP)	<500 (ND)	500	N	
RRO (Generic Mineral Insulating Oil)	nc, nv	<500 (NP)	<500 (ND)	500	N	

Notes:

NP = not present based on NWTPH-HCID (hydrocarbon identification) analysis, detection limits in parenthesis

µg/L = micrograms per Liter

c = carcinogenic

nc = noncarcinogenic

v = volatile

nv = nonvolatile

GRO = gasoline-range organics.

DRO = diesel-range organics.

RRO = residual-range organics.

## **APPENDIX A SITE PHOTOGRAPHS**

---



Fuel dispensers and transition sumps under canopy, monitoring well in foreground



Transition sumps on either side of dispenser island



Vent pipe along canopy support



Beginning to dismantle dispensers



Creekside Environmental  
Consulting LLC

Clean Fuels National  
12055 Slater Avenue NE  
Kirkland, Washington

## Site Photographs

Project No.  
351-13010-01

Appendix

**A**





Transition sumps opened



Draining product lines



Pumping tanks



Dispensers removed from island



Creekside Environmental  
Consulting LLC

Clean Fuels National  
12055 Slater Avenue NE  
Kirkland, Washington

## Site Photographs

Project No.  
351-13010-01  
Appendix  
**A**





Pumping remaining fluids from tank



Tank being removed from excavation, assisted by buoyant forces



Ground water was encountered at approx. 8 feet depth; deadman strap failure caused the tank to rise buoyantly in the excavation.



Pumping the excavation



Creekside Environmental  
Consulting LLC

Clean Fuels National  
12055 Slater Avenue NE  
Kirkland, Washington

## Site Photographs

Project No.  
351-13010-01

Appendix

A





Diesel tank being removed from excavation



Preparing gasoline tank for removal



Removing interstitial fluids



Preparing to lift gasoline tank



Creekside Environmental  
Consulting LLC

Clean Fuels National  
12055 Slater Avenue NE  
Kirkland, Washington

## Site Photographs

Project No.  
351-13010-01

Appendix

**A**





Lifting gasoline tank out of excavation



Ventilating the gasoline tank before removal from site to disposal facility



Reconnaissance ground water was sampled during decommissioning activities



Removing interstitial fluids



Creekside Environmental  
Consulting LLC

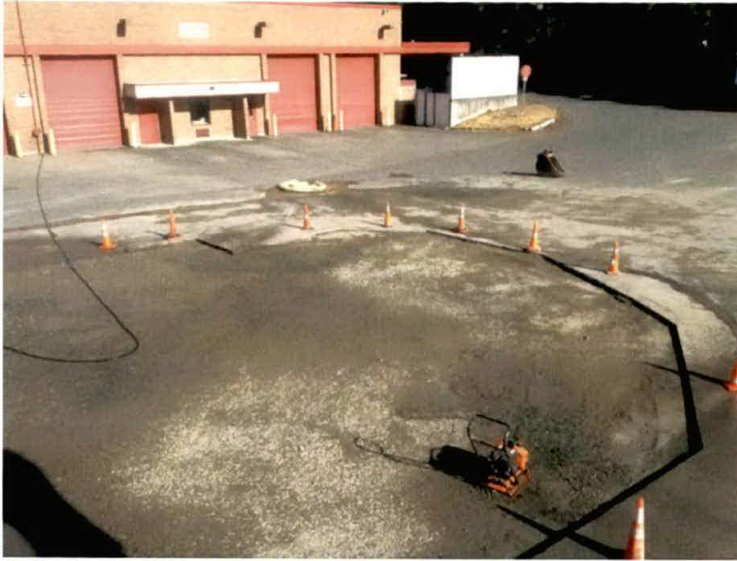
Clean Fuels National  
12055 Slater Avenue NE  
Kirkland, Washington

## Site Photographs

Project No.  
351-13010-01

Appendix

**A**



Refueling facility excavation backfilled with clean materials and compacted



Creekside Environmental  
Consulting LLC

Clean Fuels National  
12055 Slater Avenue NE  
Kirkland, Washington

## Site Photographs

Project No.  
351-13010-01

Appendix

**A**

## **APPENDIX B ECOLOGY FORMS AND CHECKLISTS**

---



# UNDERGROUND STORAGE TANK Site Check/Site Assessment Checklist

FOR OFFICE USE ONLY
Site #: _____
Facility Site ID #: _____

## INSTRUCTIONS

When a release has not been confirmed and reported, this Site Check/Site Assessment Checklist must be completed and signed by a person certified by ICC or a Washington registered professional engineer who is competent, by means of examination, experience, or education, to perform site assessments. **The results of the site check or site assessment must be included with this checklist.** This form must be submitted to Ecology at the address shown below within 30 days after completion of the site check/site assessment.

**SITE INFORMATION:** Include the Ecology site ID number if the tanks are registered with Ecology. This number may be found on the tank owner's invoice or tank permit.

**TANK INFORMATION:** Please list all tanks for which the site check or site assessment is being conducted. Use the owner's tank ID numbers if available, and indicate tank capacity and substance stored.

**REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT:** Please check the appropriate item.

**CHECKLIST:** Please initial each item in the appropriate box.

**SITE ASSESSOR INFORMATION:** This information must be signed by the registered site assessor who is responsible for conducting the site check/site assessment.

**Underground Storage Tank Section  
Department of Ecology  
PO Box 47655  
Olympia WA 98504-7655**

## SITE INFORMATION

Site ID Number (Available from Ecology if the tanks are registered): 313-013-420-154

Site/Business Name: Kirkland Garage

Site Address: PO Box 14488 Telephone: (      ) (909) 620-5962

<u>Kirkland</u>	<u>Street</u>	<u>WA</u>	<u>98034</u>
City	State		Zip Code

## TANK INFORMATION

Tank ID No.	Tank Capacity	Substance Stored
<u>1</u>	<u>10,000</u>	<u>Gasoline</u>
<u>2</u>	<u>5,000</u>	<u>Diesel</u>

## REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT

Check one:

- Investigate suspected release due to on-site environmental contamination.
- Investigate suspected release due to off-site environmental contamination.
- Extend temporary closure of UST system for more than 12 months.
- UST system undergoing change-in-service.
- UST system permanently closed with tank removed.
- Abandoned tank containing product.
- Required by Ecology or delegated agency for UST system closed before 12/22/88.
- Other (describe): \_\_\_\_\_



## CHECKLIST

Each item of the following checklist shall be initialed by the person registered with the Department of Ecology whose signature appears below.

	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. (see Section 3.2 in site assessment guidance)	✓	
3. A summary of UST system data is provided. (see Section 3.1.)	✓	
4. The soils characteristics at the UST site are described. (see Section 5.2)	✓	
5. Is there any apparent groundwater in the tank excavation?	✓	
6. A brief description of the surrounding land use is provided. (see Section 3.1)	✓	
7. Information has been provided indicating the number and types of samples collected, methods used to collect and analyze the samples, and the name and address of the laboratory used to perform the analyses.	✓	
8. A sketch or sketches showing the following items is provided:		
- location and ID number for all field samples collected	✓	
- groundwater samples distinguished from soil samples (if applicable)	✓	
- 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 different from those specified in the guidance were used, has justification for using these alternative sampling procedures been provided? (see Section 3.4)		
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.	✓	
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.		✓

## SITE ASSESSOR INFORMATION

Lynn Green

Person registered with Ecology

EVREN Northwest, Inc.

Firm Affiliated with

Business Address: PO Box 14488

Telephone: (503) 452-5561

Street

Portland

Oregon

97293

City

State

Zip Code

*I hereby certify that I have been in responsible charge of performing the site check/site assessment described above. Persons submitting false information are subject to penalties under Chapter 173.360 WAC.*

5/12/2013

Date

Signature of Person Registered with Ecology

*If you need this publication in an alternate format, please contact Toxics Cleanup Program at (360) 407-7170. For persons with a speech or hearing impairment call 711 for relay service or 800-833-6388 for TTY.*



# UNDERGROUND STORAGE TANK Closure and Site Assessment Notice

FOR OFFICE USE ONLY	
Site ID #:	_____
Facility Site ID #:	_____

See back of form for instructions

Please  the appropriate box(es)

- Temporary Tank Closure    Change-In-Service    Permanent Tank Closure    Site Check/Site Assessment

### Site Information

Site ID Number 313-013-420-154  
(Available from Ecology if the tanks are registered)

Site/Business Name Kirkland Garage  
Street

Site Address 12055 NE Slater Ave

City/State Kirkland, WA

Zip Code 98034 Telephone ( ) \_\_\_\_\_

Owners Signature *[Signature]*

### Owner Information

UST Owner/Operator Frontier Communciations NW

Mailing Address 9260 E Stockton Boulevard  
Street

P.O. Box \_\_\_\_\_

City/State Elk Grove, CA

Zip Code 95624 Telephone ( ) 909-620-5962

### Tank Closure/Change-In-Service Company

Service Company EVREN Northwest, Inc.

Certified Supervisor Lynn Green Decommissioning Certification No. 1035137

Supervisor's Signature Lynn Green Date 4/22/2013

Digitally signed by Lynn Green  
DN: cn=Lynn Green, ou=EVREN Northwest, Inc., email=lynn@evren.com, c=US  
Date: 2013.04.23 11:22:30 -0700

Address PO Box 14488  
Street P.O. Box  
Portland OR 97293 Telephone ( ) 503-452-5561  
City State Zip Code

### Site Check/Site Assessor

Certified Site Assessor Lynn Green

Address PO Box 14488  
Street P.O. Box  
Portland OR 97293 Telephone ( ) 503-452-5561  
City State Zip Code

### Tank Information

Tank ID	Closure Date	Closure Method	Tank Capacity	Substance Stored
1	_____	_____	10000	Gasoline
2	_____	_____	5,000	Diesel
	_____	_____	_____	_____
	_____	_____	_____	_____
	_____	_____	_____	_____
	_____	_____	_____	_____
	_____	_____	_____	_____
	_____	_____	_____	_____

### Contamination Present at the Time of Closure

Yes    No    Unknown  
 Check unknown if no obvious contamination was observed and sample results have not yet been received from analytical lab.

Yes    No  
 If contamination is present, has the release been reported to the appropriate regional office?

To receive this document in an alternative format, contact the Toxics Cleanup Program at 360-407-7170 (voice) or 1-800-833-6388 OR 711 (TTY)

DEPARTMENT OF ECOLOGY  
 WASHINGTON

**UNDERGROUND STORAGE TANK (UST)**

**30-DAY NOTICE**

(See back of form for instructions)

FOR OFFICE USE ONLY

Site ID # 12327

FS ID # 2555

Use  the appropriate box:  Intent to Install  Intent to Close

407-7170 / Central (509)575-2490 / Eastern (509)329-3400 / Northwest (425)649-7000 / Southwest (360)407-6300

**OWNER INFORMATION** (this form will be returned to this address)

13-420-154 (Tag: A0284) Frontier Communications NW  
 UST Owner/Operator  
Land Garage  
 Mailing Address/PO Box  
5 NE Slater Ave  
 City Elk Grove, CA Zip Code 95624  
Land, WA Zip Code 98034  
 Owner/Operator Phone Number  
9) 620-5962  
 Owner/Operator Email Address

**FORM INFORMATION**

Ust ID	Substance Stored	Capacity	Date Project is Expected to Begin
1	Gasoline	10,000	2/24/13
2	Diesel	5,000	2/24/13

**RECEIVED**  
 JAN 30 2013  
 Department of Ecology  
 Toxics Cleanup Program

**ONE PROVIDER INFORMATION** - check the appropriate boxes

PLEASE NOTE: INDIVIDUALS PERFORMING UST SERVICES MUST BE ICC CERTIFIED OR HAVE PASSED ANOTHER QUALIFYING EXAM APPROVED BY THE DEPARTMENT OF ECOLOGY.

Operator  Decommissioner  Site Assessor  
REN Northwest  
 Provider Company Name  
Lynn Green  
 Contact Person  
5137-42  
 Contact Phone Number  
5137-42  
 Contact Email Address  
lynn.g@evren-nw.com

**MULTIPLE PROVIDER INFORMATION (REQUIRED IF USING MORE THAN ONE PROVIDER)** - check the appropriate boxes

Operator  Decommissioner  Site Assessor  
 Contact Person

## APPENDIX C LABORATORY ANALYTICAL REPORT

---



FRIEDMAN & BRUYA, INC.

---

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Yelena Aravkina, M.S.  
Bradley T. Benson, B.S.  
Kurt Johnson, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
TEL: (206) 285-8282  
e-mail: fbi@isomedia.com

April 26, 2013

Lynn Green, Project Manager  
Evren Northwest, Inc.  
PO Box 14488  
Portland, OR 97293

Dear Mr. Green:

Included are the results from the testing of material submitted on April 23, 2013 from the 351-13010-01, F&BI 304428 project. There are 3 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: Neil Woller, Paul Trone  
ENW0426R.DOC

FRIEDMAN & BRUYA, INC.

---

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on April 23, 2013 by Friedman & Bruya, Inc. from the Evren Northwest 351-13010-01, F&BI 304428 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Evren Northwest</u>
304428 -01	GS01-T2-PD-3
304428 -02	GS02-T2-PL-5-3S
304428 -03	GS03-T1-PD-3
304428 -04	GS04-T1-PL-2.5-3N

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/26/13  
Date Received: 04/23/13  
Project: 351-13010-01, F&BI 304428  
Date Extracted: 04/24/13  
Date Analyzed: 04/24/13

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID  
Results Reported as Not Detected (ND) or Detected (D)**

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

<u>Sample ID</u> Laboratory ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 53-144)
GS01-T2-PD-3 304428-01	ND	ND	ND	90
GS02-T2-PL-5-3S 304428-02	ND	ND	ND	100
GS03-T1-PD-3 304428-03	ND	ND	ND	100
GS04-T1-PL-2.5-3N 304428-04	ND	ND	ND	91
Method Blank 03-738 MB	ND	ND	ND	87

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

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Data Qualifiers & Definitions

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

A1 - More than one compound of similar molecule structure was identified with equal probability.

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 this range fell outside of acceptance criteria. The value reported is an estimate.

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

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

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. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j - The result is below normal reporting limits. 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 analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is 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 compound indicated 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 in a container not approved by the method. The value reported should be considered an estimate.

pr - The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

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.



304428

SAMPLE CHAIN OF CUSTODY

ME 04-23-13

001

Send Report To LYNN GREEN  
 Company EMW  
 Address \_\_\_\_\_  
 City, State, ZIP \_\_\_\_\_  
 Phone # \_\_\_\_\_ Fax # \_\_\_\_\_

SAMPLERS (signature) [Signature]  
 PROJECT NAME/NO. 351-13010-01 PO# \_\_\_\_\_  
 REMARKS 20 Lb  
4/25/13  
etc.

Page # 1 of 1  
 TURNAROUND TIME  
 Standard (2-Weeks) 3-09y  
 RUSH  
 Rush charges authorized by \_\_\_\_\_  
 SAMPLE DISPOSAL  
 Dispose after 30 days  
 Return samples  
 Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED								Notes		
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	ACID				
6501-T2-P0-3	01	4-23-13	0805	SOIL	1											
6502-T2-PL-5-35	02	↓	0808	↓	↓											
6503-T2-P0-3	03	↓	0809	↓	↓											
6504-T1-PL-25-3N	04	↓	0811	↓	↓											

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>	KEVIN CLINE		EMW	4-23-13	1325
Received by:	<u>[Signature]</u>	ERIC [unclear]		FEH	4/23/13	1325
Relinquished by:	<u>[Signature]</u>					
Received by:						
				Samples received at	1	%

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Yelena Aravkina, M.S.  
Bradley T. Benson, B.S.  
Kurt Johnson, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
TEL: (206) 285-8282  
e-mail: fbi@isomedia.com

April 29, 2013

Lynn Green, Project Manager  
Evren Northwest, Inc.  
PO Box 14488  
Portland, OR 97293

Dear Mr. Green:

Included are the results from the testing of material submitted on April 24, 2013 from the 351-13010-01, F&BI 304456 project. There are 9 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: Neil Woller, Paul Trone  
ENW0429R.DOC

FRIEDMAN & BRUYA, INC.

---

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on April 24, 2013 by Friedman & Bruya, Inc. from the Evren Northwest 351-13010-01, F&BI 304456 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Evren Northwest</u>
304456 -01	GS08-T2-INT-8
304456 -02	GS09-T1-WF-12
304456 -03	GS10-T1-MF-12
304456 -04	GS11-T1-EF-12
304456 -05	GS12-T1-INT-8
304456 -06	SP01-COMP
304456 -07	SP02-COMP
304456 -08	PW01-8
304456 -09	GS05-T2-EF-12
304456 -10	GS06-T2-MF-12
304456 -11	GS07-T2-WF-12

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/29/13  
Date Received: 04/24/13  
Project: 351-13010-01, F&BI 304456  
Date Extracted: 04/25/13  
Date Analyzed: 04/25/13

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES  
FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID  
Results Reported as Not Detected (ND) or Detected (D)**

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

<u>Sample ID</u> Laboratory ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 51-134)
PW01-8 304456-08	ND	ND	ND	101
Method Blank 03-755 MB	ND	ND	ND	88

ND - Material not detected at or above 0.2 mg/L gas, 0.5 mg/L diesel and 0.5 mg/L heavy oil.



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/29/13  
Date Received: 04/24/13  
Project: 351-13010-01, F&BI 304456  
Date Extracted: 04/24/13  
Date Analyzed: 04/25/13

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID  
Results Reported as Not Detected (ND) or Detected (D)**

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

<u>Sample ID</u> Laboratory ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 53-144)
GS08-T2-INT-8 304456-01	ND	ND	ND	92
GS09-T1-WF-12 304456-02	ND	ND	ND	101
GS10-T1-MF-12 304456-03	ND	ND	ND	100
GS11-T1-EF-12 304456-04	ND	ND	ND	104
GS12-T1-INT-8 304456-05	ND	ND	ND	92
SP01-COMP 304456-06	ND	ND	ND	104
SP02-COMP 304456-07	ND	ND	ND	103
GS05-T2-EF-12 304456-09	ND	ND	ND	101
GS06-T2-MF-12 304456-10	ND	ND	ND	89

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/29/13  
Date Received: 04/24/13  
Project: 351-13010-01, F&BI 304456  
Date Extracted: 04/24/13  
Date Analyzed: 04/25/13

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID  
Results Reported as Not Detected (ND) or Detected (D)**

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

<u>Sample ID</u> Laboratory ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 53-144)
GS07-T2-WF-12 304456-11	ND	ND	ND	105
Method Blank 03-738 MB	ND	ND	ND	87

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/29/13  
Date Received: 04/24/13  
Project: 351-13010-01, F&BI 304456  
Date Extracted: 04/25/13  
Date Analyzed: 04/25/13

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES  
FOR BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES  
USING METHOD 8021B**

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Surrogate (% Recovery)</u> Limit (50-150)
PW01-8 304456-08	<1	<1	<1	<3	100
Method Blank 03-0743 MB	<1	<1	<1	<3	96

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/29/13  
Date Received: 04/24/13  
Project: 351-13010-01, F&BI 304456  
Date Extracted: 04/25/13  
Date Analyzed: 04/25/13

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
FOR BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES  
USING METHOD 8021B**

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>Surrogate (% Recovery)</u> (Limit 50-150)
GS08-T2-INT-8 304456-01	<0.02	<0.02	<0.02	<0.06	102
GS12-T1-INT-8 304456-05	<0.02	<0.02	<0.02	<0.06	97
Method Blank 03-0707 MB	<0.02	<0.02	<0.02	<0.06	88



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/29/13

Date Received: 04/24/13

Project: 351-13010-01, F&BI 304456

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER  
SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE,  
AND XYLENES  
USING EPA METHOD 8021B**

Laboratory Code: 304456-08 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	
			Recovery LCS	Acceptance Criteria
Benzene	ug/L (ppb)	50	88	72-119
Toluene	ug/L (ppb)	50	89	71-113
Ethylbenzene	ug/L (ppb)	50	93	72-114
Xylenes	ug/L (ppb)	150	91	72-113

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/29/13

Date Received: 04/24/13

Project: 351-13010-01, F&BI 304456

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES  
FOR BENZENE, TOLUENE, ETHYLBENZENE,  
AND XYLENES  
USING EPA METHOD 8021B**

Laboratory Code: 304452-01 (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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	81	66-121
Toluene	mg/kg (ppm)	0.5	82	72-128
Ethylbenzene	mg/kg (ppm)	0.5	84	69-132
Xylenes	mg/kg (ppm)	1.5	85	69-131

# 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.
- A1 - More than one compound of similar molecule structure was identified with equal probability.
- 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 this range fell outside of acceptance criteria. The value reported is an estimate.
- c - The presence of the analyte indicated may be due to carryover from previous sample injections.
- d - The sample was diluted. Detection limits may be raised due to dilution.
- ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.
- dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.
- fb - Analyte present in the blank and the sample.
- 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. The variability is attributed to sample inhomogeneity.
- ht - Analysis performed outside the method or client-specified holding time requirement.
- ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j - The result is below normal reporting limits. 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 analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.
- jr - The rpd result in laboratory control sample associated with the analyte is 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 compound indicated 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 in a container not approved by the method. The value reported should be considered an estimate.
- pr - The sample was received with incorrect preservation. The value reported should be considered an estimate.
- ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
- 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.

304456

SAMPLE CHAIN OF CUSTODY

ME 4/24/13

C03/BI3/VI

Send Report To LYNN GREEN  
 Company Bmw  
 Address \_\_\_\_\_  
 City, State, ZIP \_\_\_\_\_  
 Phone # 206-551-5511 Fax # \_\_\_\_\_

SAMPLERS (signature) [Signature]  
 PROJECT NAME/NO. 351-13010-01 PO# 351-13010  
 REMARKS CALL KEVIN W/ VERBAL  
HAD SOIL RESULTS (03-780-112)

Page # 1 of 2  
 TURNAROUND TIME  
 Standard (2-Weeks) 3- day  
 RUSH  
 Rush charges authorized by \_\_\_\_\_  
 SAMPLE DISPOSAL  
 Dispose after 30 days  
 Return samples  
 Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED										Notes	
						TPH-Diesel	TPH-Gasoline	BTEX by 8921B	VOCs by 8260	SVOCs by 8270	HFS	HELD					
G508-T2-INT-8	01	4-24-13	0757	SOIL	1			X					X				
G509-T1-WP-12	02		1329										X				
G510-T1-MP-12	03		1334										X				
G511-T1-EF-12	04		1340										X				
G512-T1-INT-8	05		1345										X				
S001-COMP	06		1401										X				
S002-COMP	07	↓	1405	↓	↓								X				
AW01-8	08 <sup>A</sup> <sub>H</sub>	↓	0735	WATER	8			X					X				

Samples received at 2 °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
<u>[Signature]</u>	KEVIN [unclear]	Bmw	4/24/13	1429
<u>[Signature]</u>	LARRY JACKSON	FORB &	4/24	2:13
<u>[Signature]</u>	HONG NGUYEN	FBI	4/24	13:50



304456

SAMPLE CHAIN OF CUSTODY

ME 4/24/13 C03/BI3/VI

Send Report To Lynn Green  
 Company ENW  
 Address \_\_\_\_\_  
 City, State, ZIP \_\_\_\_\_  
 Phone # 503-452-5561 Fax # \_\_\_\_\_

SAMPLERS (signature) \_\_\_\_\_  
 PROJECT NAME/NO. \_\_\_\_\_ PO # \_\_\_\_\_  
 351-130 10-01 351-13010  
 REMARKS \_\_\_\_\_

Page # 2 of 2  
 TURNAROUND TIME  
 Standard (2 Weeks)  
 RUSH  
 Rush charges authorized by: \_\_\_\_\_  
 SAMPLE DISPOSAL  
 Dispose after 30 days  
 Return samples  
 Will call with instructions

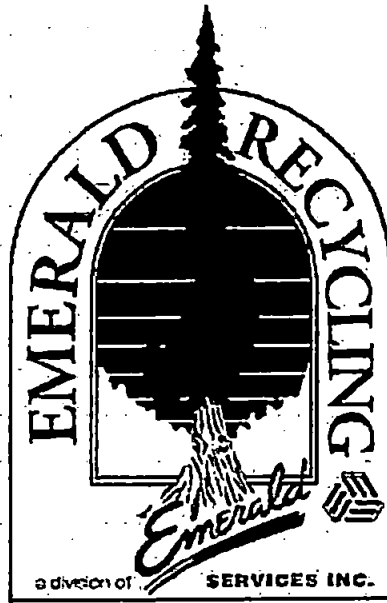
Sample ID	Lab ID	Date	Time	Sample Type	# of containers	ANALYSES REQUESTED							Notes	
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	HClD		
GS05-T2-EF-12	09	4-23-13	1559	Soil	1									7/4/24/13 per Filled in Lab
GS06-T2-MF-12	10	4-23-13	1604	soil	1									↓
GS07-T2-WF-12	11	4-23-13	1633	soil	1									* per

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:				
Received by:				
Relinquished by:				
Received by:				

## **APPENDIX D WASTE RECEIPTS**

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www.emeraldnw.com

### UST CORRECTIVE ACTION CERTIFICATION

I certify, by my signature below, that the petroleum contaminated debris and media referenced below that fail the test for Toxicity Characteristic Leachability for at least one of the waste codes D018 through D043 is exempt under 261.4 and is subject to the corrective action regulations under 40CFR Part 280.

No k-witt Excavating

Frontier Communications  
Generator's Name (print)

12055 Slater Ave NE Kirkland, wa  
Site Address

\_\_\_\_\_  
Site Address

[Signature]  
Generator's Signature, or Signature  
of Authorized Generator's Representative

4/23/13  
Date



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

66440

**BILL OF LADING AND GALLONAGE TICKET**

SHIPPER/GENERATOR	K-Witt Excavating	CONTACT	JOB #	30-09010
ADDRESS	12055 Slater Ave NE	PHONE#	LOAD #	1
CITY, STATE, ZIP	Kirkland WA		DATE	4/24/13
CARRIER	ESTI	PHONE#	DOCUMENT #	66440
CONSIGNEE	Emerald Recycling	CONTACT	TRUCK #	145-355
ADDRESS	1500 Airport Way S	PHONE#	PRODUCT TYPE	Lg
CITY, STATE, ZIP	Seattle WA 98134		EST. GALLONS	380

HM	ITEM #	U.S. DOT DESCRIPTION	#	TYPE	QTY.
X	A	3 UN 1203 Gasoline PG II	1	TT	380
	B				
	C				
	D	(waste water) ERG 125			

A. WPQ # 66440 DISP. CODE: \_\_\_\_\_ C. WPQ # \_\_\_\_\_ DISP. CODE: \_\_\_\_\_  
 B. WPQ # \_\_\_\_\_ DISP. CODE: \_\_\_\_\_ D. WPQ # \_\_\_\_\_ DISP. CODE: \_\_\_\_\_

**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 Scott Buhse SHIPPER (PRINT NAME) X [Signature] SIGNATURE DATE: 4.24.13  
 X Scott Buhse CARRIER - DRIVER 1 (PRINT NAME) X [Signature] SIGNATURE DATE: 4/24/13  
 X \_\_\_\_\_ CARRIER - DRIVER 2 (PRINT NAME) X \_\_\_\_\_ SIGNATURE DATE: \_\_\_\_\_  
 X \_\_\_\_\_ CONSIGNEE (PRINT NAME) X \_\_\_\_\_ SIGNATURE DATE: \_\_\_\_\_





### UST CORRECTIVE ACTION CERTIFICATION

I certify, by my signature below, that the petroleum contaminated debris and media referenced below that fail the test for Toxicity Characteristic Leachability for at least one of the waste codes D018 through D043 is exempt under 261.4 and is subject to the corrective action regulations under 40CFR Part 280.

*Yo k-witt Excavating*

*Frontier Communications*

Generator's Name (print)

*12055 Slater Ave NE Kirkland, wa*

Site Address

Site Address

*(Y)*

Generator's Signature, or Signature  
of Authorized Generator's Representative

*4/23/13*

Date



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

66293

10-4:45

**BILL OF LADING AND GALLONAGE TICKET**

SHIPPER/GENERATOR		K. Witt Excavating		CONTACT	Dan	JOB #	30-67010
ADDRESS		12055 Slater Ave NE.		PHONE#	(971)	LOAD #	1
CITY, STATE, ZIP		Kirkland, wa			222-5295	DATE	04/24/13
CARRIER		Emerald Services Inc. Seattle, wa		PHONE#		DOCUMENT #	66293
CONSIGNEE		Emerald Recycling Services		CONTACT	Emerald	TRUCK #	1009/3652
ADDRESS		1570 Airport Way		PHONE#	(206)	PRODUCT TYPE	Liquid
CITY, STATE, ZIP		Seattle, wa			832-3000	EST. GALLONS	39 "

HM	ITEM #	U.S. DOT DESCRIPTION	#	TYPE	QTY.
	A	3, un1203, Gardner, P&H	1	TT	4527 Lbs
	B				
	C				
	D				

A. WPQ # 66293 (6) DISP. CODE: \_\_\_\_\_ C. WPQ # \_\_\_\_\_ DISP. CODE: \_\_\_\_\_  
 B. WPQ # \_\_\_\_\_ DISP. CODE: \_\_\_\_\_ D. WPQ # \_\_\_\_\_ DISP. CODE: \_\_\_\_\_

**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	<u>Dr. Solo</u>	X	<u>[Signature]</u>	DATE:	<u>4/24/13</u>
X	<u>Charles Fompey</u>	X	<u>[Signature]</u>	DATE:	<u>4/24/13</u>
X	_____	X	_____	DATE:	_____
X	_____	X	_____	DATE:	_____

CUSTOMER



10-445



### 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 12055 Slater Ave NE  
Kirkland, wa
- JOB NUMBER: 30-69010
- TANK(S) Gasoline
- DATE CLEANED: 4/24/13
- DATE INSPECTED: 4/24/13
- EFS TRUCK: 1009/3052T
- TANK CLEANER PRINT NAME: Charles Stumpf
- TANK CLEANER SIGNATURE: [Signature]
- INSPECTOR'S NAME: KEVIN CINE
- INSPECTOR'S SIGNATURE: [Signature]
- CUSTOMER'S NAME: Don Saito
- CUSTOMER'S SIGNATURE: [Signature]
- 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.



## 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 12055 Slater Ave NE  
Kirkland, wa
- JOB NUMBER: 30-69010
- TANK(S) 1 Diesel Tank
- DATE CLEANED: 4/23/13
- DATE INSPECTED: 4/23/13
- EFS TRUCK: 1009/3052T
- TANK CLEANER PRINT NAME: Charles Stempel
- TANK CLEANER SIGNATURE: Charles Stempel
- INSPECTOR'S NAME: KEVIN CLINE
- INSPECTOR'S SIGNATURE: K. Cline
- CUSTOMER'S NAME: Don Saks
- CUSTOMER'S SIGNATURE: Don Saks
- TANK(S) LAST CONTAINED: Diesel

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.





# JOB WORK ORDER

7343 E. Marginal Way South  
 Seattle, Washington 98108  
 Dispatch (206) 832-3052 Fax (206) 832-3030

JOB NUMBER: 90-69010  
 JOB DATE: 4/24/13  
 JOB COMPLETE YES  NO   
 PREVAILING WAGE YES  NO

PROJECT NAME/TANK NUMBER: K. With Excavating  
 PROJECT ADDRESS: 12056 NE Slater Ave Kirkland WA 98033  
 CUSTOMER BILLING NAME: KWI 1400  
 CUSTOMER CONTACT: Dan PHONE NO: 971-222-5275

CHANGE ORDER WORK   
 SUMMARY OF WORK REQUIRED: \_\_\_\_\_

- TANK CLEANING: \_\_\_\_\_
- BILGE CLEANING: \_\_\_\_\_
- VOIDS: \_\_\_\_\_
- PUMPING: Pump to tank
- OTHER / HYDROBLASTING: \_\_\_\_\_
- DROP VAC & VENT: \_\_\_\_\_

Tank Cleaning	EQUIP. #	SITE HRS	USAGE HRS	TANK CLEANING EQUIPMENT	EQUIP. #	SITE HRS	USAGE HRS
SUPERMACS				VACUUM TRUCK-LARGE	148-3055	3.00	
WASH PUMP/HOTSEY					1009-3052	6.50	
WASH PUMP/HOTSEY				VACUUM TRUCK-SMALL			
AIR COMPRESSOR							
BLOWER				GUZZLER			
M15/M8 PUMPS				CAMEL			
HYDRO BLASTER							
FRESH AIR MACHINE				1 TON			
POWER PAC				2.5 TON			
TRI POD							

RENTAL EQUIPMENT	NO.	RET	VENDOR	STOCK REQS / MISC. RECEIPTS		INVOICE #	
AIR COMPRESSOR							
EQUIP FUEL							
GENERATOR							
PORTA POTTY				BOL/MANIFEST	FACILITY	PRODUCT	VOLUME
BAKER TANK				66-50	ETS	601016	4,327
COPUS BLOWERS							
CP HOSE							
TRAVEL PASS FEES							
SCALE WEIGHT RECEIPTS							
TANKERMAN							
MARINE CHEMIST							

EMPLOYEE NAME	CL	PD	EQUIP. NO.	START	STOP	ST HOURS	OT HOURS	DT HOURS
Charles	3		1009-3052	08:30				
Scott B	3		148-3055	08:30				





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

66302

**BILL OF LADING AND GALLONAGE TICKET**

SHIPPER/GENERATOR <i>K. Witt Excavating</i>		CONTACT <i>Dave</i>	JOB # <i>30-64010</i>
ADDRESS <i>12055 N 5th Ave</i>		PHONE# <i>206-832-9710</i>	LOAD # <i>1</i>
CITY, STATE, ZIP <i>Kirkland, WA</i>		<i>206-832-9710</i>	DATE <i>4/22/13</i>
CARRIER <i>Emerald Services Inc</i>		PHONE# <i>206-832-3000</i>	DOCUMENT # <i>66302</i>
CONSIGNEE <i>Emerald Excavating Services</i>		CONTACT <i>Emerald</i>	TRUCK # <i>787</i>
ADDRESS <i>1572 Airport Way</i>		PHONE# <i>206-832-3000</i>	PRODUCT TYPE <i>Waste</i>
CITY, STATE, ZIP <i>Seattle, WA</i>		<i>206-832-3000</i>	EST. GALLONS <i>272</i>

HM	ITEM #	U.S. DOT DESCRIPTION	#	TYPE	QTY.
	A	<i>3.44203, metal &amp; PETE</i>	<i>1</i>	<i>T</i>	<i>272</i>
	B				
	C				
	D				

A. WPQ # 29010 DISP. CODE: \_\_\_\_\_ C. WPQ # \_\_\_\_\_ DISP. CODE: \_\_\_\_\_  
 B. WPQ # \_\_\_\_\_ DISP. CODE: \_\_\_\_\_ D. WPQ # \_\_\_\_\_ DISP. CODE: \_\_\_\_\_

**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 \_\_\_\_\_ SHIPPER (PRINT NAME) X \_\_\_\_\_ SIGNATURE DATE: 4-22-13  
 X Charles Stump CARRIER - DRIVER 1 (PRINT NAME) X \_\_\_\_\_ SIGNATURE DATE: 4-22-13  
 X \_\_\_\_\_ CARRIER - DRIVER 2 (PRINT NAME) X \_\_\_\_\_ SIGNATURE DATE: \_\_\_\_\_  
 X \_\_\_\_\_ CONSIGNEE (PRINT NAME) X \_\_\_\_\_ SIGNATURE DATE: \_\_\_\_\_

**CUSTOMER**





www.emeraldsw.com

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

65939

**BILL OF LADING AND GALLONAGE TICKET**

SHIPPER/GENERATOR <i>K. W. H. Excavating</i>		CONTACT <i>Don</i>	JOB # <i>30-69010</i>
ADDRESS <i>12055 Slater Ave NE</i>		PHONE# <i>(970)</i>	LOAD # <i>1</i>
CITY, STATE, ZIP <i>Kirkland, wa</i>		<i>222-5295</i>	DATE <i>04/23/13</i>
CARRIER <i>Emerald Services Inc Seattle, WA</i>		PHONE#	DOCUMENT # <i>65939</i>
CONSIGNEE <i>Emerald Recycling Services</i>		CONTACT <i>Emerald</i>	TRUCK # <i>10293053</i>
ADDRESS <i>1500 Airport Way</i>		PHONE# <i>(206)</i>	PRODUCT TYPE <i>Hyd</i>
CITY, STATE, ZIP <i>Seattle, wa</i>		<i>713-5148</i>	EST. GALLONS <i>"</i>

HM	ITEM #	U.S. DOT DESCRIPTION	#	TYPE	QTY.
	A	<i>1000-Regulated Materials by D.O.T.</i>	<i>1</i>	<i>TT</i>	<i>2,853</i>
	B				
	C				
	D				

A. WPQ # *600501* DISP. CODE: \_\_\_\_\_ C. WPQ # \_\_\_\_\_ DISP. CODE: \_\_\_\_\_  
 B. WPQ # \_\_\_\_\_ DISP. CODE: \_\_\_\_\_ D. WPQ # \_\_\_\_\_ DISP. CODE: \_\_\_\_\_

**DISPOSAL**

WASH OUT: YES (  ) NO (  )

DUMP DELAY TIME \_\_\_\_\_

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 *Don Saffer* \_\_\_\_\_ DATE: *4/23/13*  
 SHIPPER (PRINT NAME) SIGNATURE

X \_\_\_\_\_ DATE: *4/23/13*  
 CARRIER - DRIVER 1 (PRINT NAME) SIGNATURE

X \_\_\_\_\_ DATE: \_\_\_\_\_  
 CARRIER - DRIVER 2 (PRINT NAME) SIGNATURE

X \_\_\_\_\_ DATE: \_\_\_\_\_  
 CONSIGNEE (PRINT NAME) SIGNATURE





# JOB WORK ORDER

7343 E. Marginal Way South  
 Seattle, Washington 98108  
 Dispatch (206) 832-3052 Fax (206) 832-3030

JOB NUMBER: 20-69010  
 JOB DATE: 4/23/13  
 JOB COMPLETE YES  NO   
 PREVAILING WAGE YES  NO

PROJECT NAME/TANK NUMBER: K. Will Excavating  
 PROJECT ADDRESS: Various locations  
 CUSTOMER BILLING NAME: KWI 1400  
 CUSTOMER CONTACT: Don PHONE NO 971-222-5295  
 CHANGE ORDER WORK

SUMMARY OF WORK REQUIRED: 1255 State Ave NE Kirkland, WA  
 TANK CLEANING:  
 BILGE CLEANING:  
 VOIDS:  
 PUMPING: Pump tanks + line  
 OTHER / HYDROBLASTING:  
 DROP VAC & VENT:

Tank Cleaning	EQUIP. #	SITE HRS	USAGE HRS	TANK CLEANING EQUIPMENT	EQUIP. #	SITE HRS	USAGE HRS
SUPERMACS				VACUUM TRUCK-LARGE	KCP/25AT		
WASH PUMP/HOTSEY				VACUUM TRUCK-SMALL			
WASH PUMP/HOTSEY							
AIR COMPRESSOR							
BLOWER				GUZZLER			
M15/M8 PUMPS				CAMEL			
HYDRO BLASTER							
FRESH AIR MACHINE				1 TON			
POWER PAC				2.5 TON			
TRI POD							

RENTAL EQUIPMENT	NO.	RET	VENDOR	STOCK REQS / MISC. RECEIPTS		INVOICE #	
AIR COMPRESSOR							
EQUIP FUEL							
GENERATOR							
PORTA POTTY				BOL/MANIFEST	FACILITY	PRODUCT	VOLUME
BAKER TANK				65939	ERS	60050	2,853
COPUS BLOWERS							
CP HOSE							
TRAVEL PASS FEES							
SCALE WEIGHT RECEIPTS							
TANKERMAN							
MARINE CHEMIST							

EMPLOYEE NAME	CL	PD	EQUIP. NO.	START	STOP	ST HOURS	OT HOURS	DT HOURS
Charles	3		Wentworth 2100					



Columbia Ridge  
18177 Cedar Springs Lane  
Arlington, OR, 97812  
Ph: (541) 454-2030

Original  
Ticket# 139456

107726WA

Customer Name K WITT EXCAVATING LLC K WITT Carrier 8000  
Ticket Date 05/02/2013 Vehicle# 8507 Volume  
Payment Type Credit Account Container 8507  
Manual Ticket# 772595 Billing # 0001720  
Hauling Ticket# Manifest  
Destination UP/R TRANSPORT PO 107726WA  
Profile 107726WA (RCRA EMPTY FIBERGLASS FUEL TANK - CM)  
Generator OR-FRONTIER COMM FRONTIER COMMUNICATIONS

Time Scale Operator Inbound Gross 16000 lb\*  
In 04/27/2013 12:32:45 MANUAL WT SMastrio Tare 7780 lb\*  
Out 05/02/2013 12:32:45 SMastrio Net 8220 lb  
\* Manual Weight Tons 4.11  
Comments Dropped 4/24

K Witt / Frontier

Product	LDZ	Qty	UDM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth	100	4.11	Tons				WA-KIRKLAN
2 DEL U SPW-DELIVERY	100	1	Each				
3 LOC U SPW-LOCAL TR	100	1	Load				
4 RAIL U SPW-RAIL LN	100	1	Load				
5 FEA T SPW-FUEL, ENV	100	4.11	Tons				

Oregon Waste Systems  
A Waste Management Company  
18177 Cedar Springs Lane  
Arlington, Oregon 97812  
(541) 454-2030

Nº: 772595

2013 MAY 2 PM 1:47:53

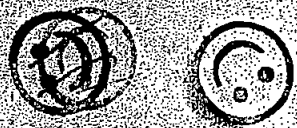
DATE/TIME  
LOAD DATE  
CUSTOMER: K Witt Co / Frontier Comm  
PROFILE NUMBER: 107726WA  
TRUCK NUMBER: 8507  
TRAILER/CONTAINER NUMBER:  
SEAL NUMBER:  
CUSTOMER INVOICE NO.:

GROSS WEIGHT: 16000  
TARE WEIGHT-TRACTOR: 7780  
TARE WGT-TRAILER/CONTAINER: 8220  
NET WEIGHT:

GATEHOUSE:  
DRIVER: daniel

TRAIN ID: Wepd 46 ORIGIN:  
WASTE TYPE: RCRA EMPTY Fiberglass Tank  
DISPOSAL: CM DC BU GMD SEGREGATE

REMARKS:  
Drop 4/24  
HAULER: UP107



UST# 12327

RECEIVED

MAY 30 2013

DEPT OF ECOLOGY  
TCP - NWRO



LETTER OF TRANSMITTAL

PO Box 14488  
Portland, OR 97293

503-452-5561 (Office)  
ENW@EVREN-NW.com (E-Mail)

DATE: May 28, 2013
PROJECT NUMBER: 351-13007-01
TO: Washington Department of Ecology 3190 160th Avenue SE, Bellevue, WA 98008
ATTENTION: Antony Leo
RE: Frontier Communications, Kirkland

COPIES	DATE	DESCRIPTION
1	5/23/2013	Underground Storage Tank Decommissioning (Facility #27591174)

These are transmitted as check below:

- For approval
- For review and comment
- Approved as submitted
- For your use
- Approved as noted
- \_\_\_\_\_
- As requested
- Returned for corrections

**Remarks:** Tony, enclosed is the report we completed for this project. This report should supersede the previous report provided as it was discovered that report was missing several disposal receipts and contained incorrect information regarding UST deposition. Please let me know if you have any questions regarding this project. It was a pleasure to work with you Tony! Lynn

**Copy to:**  
Brent Jorgensen, with no enclosures

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_