

TRANSMITTAL

DATE: December 17, 2015

TO: Ms. Gayle Garbush

Washington State Department of Ecology

3190 - 160th Avenue SE Bellevue, Washington 98008

FROM: Audrey McIvor

PROJECT NO: 40609.001

RE: Remedial Investigation and Cleanup Action Report

Pike Place Market PDA

Dear Gayle,

Attached is the Remedial Investigation and Cleanup Action report for Pike Place Market – 1901 Western Avenue, Seattle, Washington. Please let me know if there are any questions during your review. Thank you for your time.

Kind regards, Audrey



Remedial Investigation and Cleanup Action Report

Pike Place Marketfront Project 1901 Western Avenue Seattle, Washington

Prepared for: Pike Place Preservation and Development Authority 85 Pike Street, Room 500 Seattle, Washington 98101

Project No. 40609.001 ERTS: 659781 December 17, 2015

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EXECUTIVE SUMMARY

PBS Engineering and Environmental (PBS) conducted a Remedial Investigation and Cleanup Action on behalf of Pike Place Preservation and Development Authority for the property located at 1901 Western Avenue in Seattle, Washington.

Property Description and Site Discovery

The 0.71-acre property is located at 1901 Western Avenue between Western Avenue and State Route 99 in the Pike Place Market zone of the City of Seattle. Currently, the property is in development as a mixed use space, with commercial, residential, outdoor plazas, and a four level sub-grade parking garage. Approximately 44,600 cubic yards of grading has been completed and the concrete foundation for the lowest level of the parking garage has been built.

Two historical underground storage tanks (USTs) were encountered at the property during site development activities. The first UST was discovered on September 10, 2015. The second UST was discovered on September 19, 2015. Analytical result from the site assessment for the first UST did not indicate evidence of a release. Analytical results from the site assessment for the second UST indicated evidence of a release of leaded gasoline to the soil. On September 29, 2015, a notice of release was reported to Department of Ecology and issued ERTS #659781.

Interim and Cleanup Actions

Environmental investigations and cleanup actions have been conducted at the Site since September 10, 2015. The Site is characterized by a release of leaded gasoline to soil only, with no groundwater encountered. Cleanup actions include decommission by removal of both encountered USTs. Excavation and proper disposal of 53.55 tons of Site soils remediated gasoline impacted soils associated with the second UST. Confirmation soil samples collected and analyzed represent the final excavation depth associated with the new development. Based on current Site characterization information, established cleanup levels, and points of compliance identified for the Site, identified COCs are below cleanup levels.

Request for Regulatory Closure

Analytical results from confirmation soil samples collected at the extents of excavation indicate no contaminants remain at the Site with concentrations above their respective method detection limits, except lead which was detected at background concentrations. Since risk(s) to human, terrestrial, and ecological receptors have been eliminated through cleanup action, PBS requests a No Further Action determination for the Site at the Initial Investigation Stage (WAC 173-340-310(5)(d)).

Limitations (Please also refer to 12.0)

The report should be read in its entirety (text and attachments) before decisions are made based on the information provided in the executive summary. PBS is not responsible for utilization of less than the complete report.

1.0 ABBREVIATIONS AND ACRONYMS

The following abbreviations and acronyms that are commonly used in PBS Remedial Investigation and Environmental Assessment reports. Additional abbreviations and acronyms may be defined within the text.

AMSL - above mean sea level

AST – aboveground storage tank

ASTM - American Society for Testing and Materials

AUL - Activity and Use Limitation

bgs - below the ground surface

CA - Cleanup Action

CEG – conditionally exempt generator (of hazardous waste)

CERCLA - Comprehensive Environmental Response, Compensation and Liability Act (EPA)

CMMP - Contaminated Media Management Plan

COC - Contaminant of Concern

CSM – Conceptual Site Model

Ecology - State of Washington Department of Ecology

ERTS - Environmental Report Tracking System

EPA - Environmental Protection Agency

ESA - Environmental Site Assessment

Feet bas - feet below ground surface

FS - Feasibility Study (per 340-173 WAC)

HOT – heating oil tank

LUST – leaking underground storage tank

mg/kg - milligrams per kilogram (equivalent to parts per million, ppm)

MTCA - Model Toxics Control Act

NFA - No Further Action determination

PAH – Poly Aromatic Hydrocarbons

PCB - polychlorinated biphenyls

PID - Photoionization Detector

ppm – parts per million (equivalent to mg/kg)

RI – Remedial Investigation (per 340-173 WAC)

RCRA – Resource Conservation and Recovery Act (EPA)

SEPA - State Environmental Policy Act

TPH - Total Petroleum Hydrocarbons

µg/Kg – micrograms per kilogram (equivalent to parts per billion, ppb)

μg/L – micrograms per Liter (equivalent to ppb)

UST – underground storage tank

2.0 INTRODUCTION

PBS Engineering and Environmental (PBS) prepared this Remedial Investigation (RI) and Cleanup Action (CA) report on behalf of Pike Place Preservation and Development Authority (Pike Place PDA) for the property located at 1901 Western Avenue in Seattle, Washington (see Vicinity Map; Figure 1). The investigative and cleanup actions were taken in response to an identified release of petroleum hydrocarbons from an underground storage tank (UST) encountered during site development on the project site in September 2015.

2.1 Project Information

Site Name:	Pike Place Marketfront Project
Site Address:	1901 Western Avenue
	Seattle, Washington 98101
	King County tax parcel 1977200330
Current Owner / Operator:	Pike Place Market PDA
	Mr. Ben Franz-Knight
	85 Pike Street, Room 500
	Seattle, Washington 98101
Project Consultant Contact Information:	PBS Engineering and Environmental
	Ms. Audrey McIvor
	2517 Eastlake Avenue East , Suite 100
	Seattle, WA 98102
	Office – 206.223.9639
	Mobile - 206.498.6310
Ecology ERTS Number:	659781

2.2 Purpose

This RI/CA report was prepared to meet the requirements of the RI/CA as outlined in the Washington State Model Toxics Control Act (MTCA), chapter 173-340 under Washington Administrative Code (WAC). The intent of this report is to evaluate and document that remedial actions completed at the project site are protective of human health and the environment and meet the substantive requirements of MTCA.

3.0 SITE IDENTIFICATION AND DESCRIPTION

3.1 Site Discovery and Regulatory Status

Two underground storage tanks (USTs) were encountered at the property during site development activities. The first UST was discovered on September 10, 2015. The second UST was discovered on September 19, 2015.

Tank details are summarized below:

Encountered	Tank	Discovery Date	Tank Description	Contents
Name				
UST #1		9/11/2015	500-gallon single-walled steel	gasoline
UST #2		9/19/2015	1,200-gallon single-walled steel	gasoline

On September 11, 2015, PBS and Marine Vacuum Services Inc. (Marvac) decommissioned the first encountered UST by removal. Analytical results from the site assessment indicated no evidence of a release. Groundwater was not encountered.

On September 28, 2015, PBS and Marvac decommissioned the second encountered UST by removal. Analytical results from the site assessment indicated evidence of a release of leaded gasoline to the soil. Groundwater was not encountered.

Both UST site assessments were conducted by a certified Site Assessor, in accordance with Chapter 173-360-385 through 173-360-395 of WAC and *Guidance for Site Checks and Site Assessments for Underground Storage Tanks* (Publication 90-52, revised 2003). On September 29, 2015, a notice of release at 1901 Western Avenue in Seattle, Washington was reported to Washington State Department of Ecology's (Ecology) NW Regional Office Toxics Cleanup Program and issued ERTS Number 659781.

On October 14, 2015, 53.55 tons of petroleum impacted soil was excavated, removed, and properly disposed of from the Site. Currently, the Site's regulatory status is in the Initial Investigation (WAC 173-340-310) phase of MTCA. Please refer to Section 5.0 for further details on environmental activities conducted at the Site.

3.2 Property Description

The property is located at 1901 Western Avenue between Western Avenue and State Route 99 in the Pike Place Market zone of the City of Seattle. City of Seattle Department of Planning and Development also associates 1911 Western Avenue with this property. A legal description of the property is included as Appendix A. The property is further defined as located in the southeast quarter of Section 31, Township 25 North, Range 4 East of the Willamette Base and Meridian (Figure 1). The property is accessed from Western Avenue and is situated on land between Western Avenue and the Alaskan Way Viaduct.

3.3 Neighborhood Setting

According to City of Seattle Official Zoning Map Books, accessed online November 3, 2015, the property is zoned PMM-85, a mixed use zone. Adjacent properties include Pike Place Market, with several restaurants and commercial businesses, a parking garage, and a multi-family residential building.

3.4 Physiographic Setting / Topography

Subgrade excavation has altered previous topography and the property is generally flat with a steep slope to the west toward Puget Sound (Refer to Figure 2 for Site Plan). The property is

situated on 0.71-acres of land, with an elevation that has been lowered from 80 to 75 feet above mean sea level (AMSL) to approximately 49 feet AMSL. The site is located in the Central Basin region of the Puget Sound and Elliott Bay is located 550 feet west of the Site. Surface cover at the property is comprised of poured concrete for a subgrade parking garage.

4.0 PROPERTY DEVELOPMENT AND HISTORY

4.1 Past Property Uses and Facilities

The area was first platted in 1873, but the steep, ungraded hillside prevented substantial development until the 1920s. Instead multiple wood frame "squatters' shanties" appear on maps and photographs as early as 1888 and continued to be occupied during the construction of the Great Northern Railway Tunnel in 1903-1905 and the Pike Place Market in 1911. During the railroad tunnel construction an office and three bunkhouses for the railway company were constructed on the south end of the site adjacent to the existing cabins (source: *Cultural Resources Assessment (Northwest Archeological-2013*) Master Use Permit (MUP) Application (MUP #3015514). The BSNF Railway tunnel is located directly beneath the project site. The top of the tunnel is approximately 20 to 30 feet below the surface of the existing parking lot grade (*Geotechnical Report, Shannon & Wilson, Inc.-2013*).

The Municipal Market Building occupied the site from 1921 to 1974. The multi-story reinforced concrete frame building with wood posts contained basements, stores, market stalls, and an automobile garage. Originally two bridges spanned the Western Avenue to connect to the Municipal Market Building; today one bridge remains. The Municipal Market Building was damaged by fire in 1961 and 1974 and subsequently demolished. Foundations from the Market Municipal Building were expected to be encountered during redevelopment activities (SEPA Checklist, Pike Place PDA, and revised November 15, 2013).

From between the late 1970s to 2015, the property has been used as a surface parking lot.

4.2 Current Site Uses and Facilities

The property is currently in the process of redevelopment into a mixed use space, with commercial, residential, outdoor plazas, and a four level subgrade parking garage. Pike Place PDA purchased the property from City of Seattle in June 2015. In 2015, the surface parking lot was demolished when current redevelopment activities began. Plans for the property include a four-story building with 40 residential units above 17,846 square feet of retail space at ground level, and parking for 302 vehicles at and below grade. Approximately 44,600 cubic yards of grading (soil removal and export) has already been completed. The existing access staircase from the market over Western Avenue, associated surface parking, and existing foundations have been demolished.

4.3 Proposed or Potential Future Site Uses

Planned use of the property is mixed use (commercial, residential, parking).

4.4 Zoning

According to the City of Seattle Zoning Map (2015), the property is zoned PMM-85 PP, a mixed use zone in Pike Place Market Historic Core Area. Zone PPM is part of the area adopted for the Pike Place Market Urban Renewal Plan.

4.5 Transportation/ Roads

The rectangular parcel is oriented northwest to southeast and is parallel to and accessed from the east adjoining Western Avenue. State Route 99 (viaduct) borders the western property boundary with Victor Steinbrueck Park to the north and multi-level residential to the south. BNSF tunnel rail lines are located below the property beginning at approximately 50 feet elevation. The new development sits directly above the BNSF tunnel.

4.6 Utilities and Water Supply

The utilities (main water, storm, and sewer) for the property are being reworked to accommodate development. However, utilities for the new construction are expected to be connected to municipal facilities along Western Avenue. Drinking water for the area is supplied by the City of Seattle, sourced primarily from the Cedar and Tolt Rivers (City of Seattle, 2015).

4.7 Potential Sources of Site Contamination

The identified source of contamination is UST #2 that was discovered on the property in September 2015. The UST is described in Section 3.1.

4.8 Potential Sources of Contamination from Neighboring Properties

The property is located in a historic commercially zoned area of Seattle that has been developed since the early 1900's. Several cleanup and hazardous waste generator sites are listed in Ecology's publically searchable databases that are located within one-quarter mile of the property. Those facilities with close proximity, in an upgradient or crossgradient position, and that have reported hazardous waste storage or release(s) are listed below. This is not an exhaustive list listing of potential sources of contamination from neighboring properties:

Facility:	FSID #: 14329, 430937
First Avenue and Stewart Street Block	

Located approximately 400 feet upgradient, this site is listed as a State Cleanup Site that is in the Voluntary Cleanup Program. Redevelopment and significant excavation for 300 subsurface parking spaces indicates this Site is a low risk for impacting neighboring properties.

5.0 SITE CLEANUP ACTION SUMMARY

Environmental investigation and cleanup actions have been conducted at the Site since September 10, 2015 and are summarized below. All analytical results were screened to determine if hazardous or petroleum constituents were present at the Site at levels that indicate a risk to human health and the environment. Appropriate cleanup levels for this Site are

selected after the components of the RI have been evaluated and are presented in Section 8.0. Sample locations are presented in Figure 3. Soil analytical results are presented in Table 1. Laboratory analytical reports are presented in Appendix B. UST removal and disposal permits, checklists, soil removal and disposal documentation is included as Appendix C.

Site Assessment for Discovered UST#1 – 1901 Western Avenue, Seattle, Washington 98102, Tax Parcel No. 1977200330 (PBS, September 11, 2015)

On September 10, 2015, during property redevelopment activities, an approximately 500-gallon single walled steel gasoline UST was discovered (UST #1). Given active construction at the property, PBS requested and was granted a waiver from Ecology of the 30-day intent to close notification requirement. On September 11, 2015, Marvac properly decommissioned the UST (UST #1) by removal. Ms. Audrey McIvor of PBS, a Washington State Certified Site Assessor, observed the UST decommission and conducted the Site Assessment. Upon excavation, UST #1 appeared in good condition with no holes, pitting, or staining observed. During excavation, soil headspace screening was conducted using a hand held photoionization detector (PID). PID headspace readings give a general indicator of volatiles present in the media and are not chemical or concentration specific. The PID did not detect volatiles in soil headspace readings. Additionally, PBS personnel did not observe field evidence of petroleum impacts. Groundwater was not encountered during this Site Assessment.

Soil samples were collected using procedures specified in Washington Department of Ecology's *Guidance for Site Checks and Site Assessments for Underground Storage Tanks*. Representative samples were placed into laboratory provided glass jars and/or vials and stored on ice, under chain of custody documentation, until delivery to Fremont Analytical in Seattle, Washington.

Five soil samples, from the base and perimeter of the tank excavation pit, were collected and analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX), gasoline range hydrocarbons (NWTPH-Gx), and diesel/oil range hydrocarbons (NWTPH-Dx/Dx Ext.). Initial analytical results from soil samples collected during the Site Assessment indicated the soils within the tank excavation pit were below screening levels. Additional analysis, in accordance with Table 830-1, was not conducted since indicator contaminants (NWTPH-Gx, NWTPH-Dx/Dx Ext., BTEX, Lead) were not present above method detection limits.

Site Assessment for Discovered UST#2 – 1901 Western Avenue, Seattle, Washington, 98102, Tax Parcel No. 1977200330 (PBS, September 2013)

On September 21, 2015, during property redevelopment activities, an approximately 1200-gallon single walled steel leaded gasoline UST was discovered (UST #2). Given ongoing construction at the property, PBS requested and was granted a waiver from Ecology of the 30-day intent to close notification requirement.

On September 28, 2015, after obtaining a dangerous waste generator number for disposal of the UST contents (due to lead content), Marvac properly decommissioned the UST by removal.

Ms. Audrey McIvor of PBS, a Washington State Certified Site Assessor, observed the UST decommission and conducted the Site Assessment. Upon excavation, UST #2 exhibited some surface corrosion with no apparent holes or pitting. Stained soil and PID headspace readings indicated petroleum impacts to soil within the tank pit excavation. Groundwater was not encountered during this Site Assessment.

Soil samples were collected using procedures specified in Washington Department of Ecology's *Guidance for Site Checks and Site Assessments for Underground Storage Tanks*. Representative samples were placed into laboratory provided glass jars and/or vials and stored on ice, under chain of custody documentation, until delivery to Fremont Analytical in Seattle, Washington.

Five soil samples, from the base and perimeter of the tank pit, were collected and analyzed for BTEX, NWTPH-Gx, NWTPH-Dx/Dx Ext., and lead. Initial analytical results from soil samples collected during the Site Assessment indicated NWTPH-Gx and BTEX in soils within the tank pit excavation. NWTPH-Dx/Dx Ext. were not detected above laboratory method detection limits.

In accordance with Table 830-1, additional analysis was performed on soil sample DT2-E3. Analytical results from soil sample DT2-E3 indicated the highest reported concentration of NWTPH-Gx and associated constituents. Soil sample DT2-E3 was additionally analyzed for Methyl tert-butyl ether (MTBE), 1,2-Dichloroethane (EDC), 1,2-Dibromoethane (EDB), and Naphthalene. None of the additionally analyzed constituents indicated concentrations above method detection limits with the exception of Naphthalene, detected at 18.4mg/kg. EDB was not detected above the laboratory method detection limit of 0.005mg/kg.

On September 29, 2015, based on the results from the Site Assessment associated with UST #2, Ecology was notified of a release via Ecology's *Environmental Report Tracking System* (ERTS) and issued ERTS ID number 659781.

Site Characterization (PBS September 2015)

A Sampling and Analysis Plan (SAP) was prepared by PBS on September 29, 2015 to direct the soil "test pit" and interim impacted-soil excavation in an effort to delineate the extent of contaminated soils by means of field screening and confirmation sampling. Soils stockpiled during that activity as potential petroleum contaminated soil (PCS) via field screening were sampled for disposal characterization.

On September 30, 2015, Mr. Mike Bagley of PBS, a Washington State Certified Site Assessor, conducted additional Site Characterization to delineate the extent of petroleum impacted soil at the Site and prepare for a remedial excavation. PBS directed test pit excavations beginning at the location of the removed UST, radiating out from the former UST pit. Soils were screened for volatiles using a handheld PID. With the exception of the southern test pit, exploratory excavations continued until field observations and PID readings indicated very low to no volatility. Four soil samples representing the lateral and vertical extent of petroleum impacted soil were collected and submitted to the laboratory for analysis. Structural steel and other heavy

construction materials were being stored to the south, preventing further test pit exploration in that direction. A soil sample was collected as close to the construction equipment storage as possible. Representative samples were placed into laboratory provided glass jars and/or vials and stored on ice, under chain of custody documentation, until delivery to Fremont Analytical in Seattle, Washington.

The samples collected during this investigation were analyzed for NWTPH-Gx, BTEX, and lead. The analytical results from soil samples collected during this investigation indicated concentrations below laboratory method detection limits with the exception of TP-1, collected from the southern extent of exploration. Analytical results from TP-1 indicated NWTPH-Gx (4,790mg/kg) and BTEX (B: 4.60mg/kg, T: 34mg/kg, E: 15.3mg/kg, and X: 92.6mg/kg).

Based on the analytical results, an estimate of the approximate vertical and lateral extent of petroleum impacted soil at the Site was obtained. Each test pit was subsequently backfilled, pending planned excavation of affected soils. Groundwater was not encountered.

Cleanup Action (PBS October 2015)

On October 14, 2015, Mr. Bagley of PBS oversaw excavation, removal, and proper disposal of 53.55 tons of petroleum impacted soil from the Site. Based on the "Site Characterization" conducted in September 2015, Mr. Bagley directed excavation and removal of petroleum impacted soil to the greatest extent practicable. Construction equipment storage, that limited test pit excavation to the south, was removed providing additional lateral access in the southern direction.

The removal of affected petroleum contaminated (PCS) soil was conducted in accordance with the *Guidance for Remediation of Petroleum Contaminated Sites* (Ecology Publication 10-09-057, October 2011). PCS was excavated and disposed of at an approved facility or a Subtitle D landfill. The Contractor determined the methods and means for the soil excavation and the excavation sequence was developed directly with PBS.

Contaminated soil management procedures were developed to:

- Segregate uncontaminated soil from PCS for soil disposal;
- Allow direct loading to minimize soil stockpiling to the extent possible;
- Transport soil to the appropriate disposal facility by haulers licensed to transport contaminated soil;
- Contractor provided transporter's permit/qualifications for shipping PCS prior to any waste shipment.

Based on the laboratory results of soil samples representative of the PCS, it was determined that the waste is Category 3 or 4 and is not a dangerous waste. Republic Services, a RCRA Subtitle D landfill, accepted four loads (totaling 53.55 tons) of PCS at the Seattle transfer facility. A manifest was completed and approved by Republic Services (Appendix C).

Excavation and disposal of petroleum impacted soils continued until PID readings indicated very

low to no volatility. Confirmation samples were placed into laboratory provided glass jars and/or vials and stored on ice, under chain of custody documentation, until delivery to Fremont Analytical in Seattle, Washington. Confirmation soil samples representing the lateral and vertical extent of excavation were collected and submitted to the laboratory for analysis.

Six confirmation soil samples were collected, two from the bottom (B-1S and B-2N) and one from each perimeter wall (W-5W, W-3N, W-6S, and W-4E). All soil samples analyzed for BTEX, NWTPH-Gx, and lead. Analytical results from the confirmation soil samples collected in association with the remedial excavation indicated the majority of petroleum impacted soil was removed and properly disposed. However, soil sample W-4E indicated a pocket of petroleum impacted soil with benzene (1.86mg/kg) and NWTPH-Gx (84.5mg/kg) remained at the Site. Soil sample W-4E represents the east wall of the excavation. Further excavation was limited at the east wall due to staging of heavy construction materials. Groundwater was not encountered.

Confirmation Soil Sampling (PBS November 2015)

On November 24, 2015, Mr. Bagley conducted confirmation soil sampling at the final extents of excavation in the area of former UST #2. Soils associated with development had been excavated and properly disposed by the general contractor, and final grade (approximately 49.5 feet AMSL) had been achieved. The project surveyor, using previously recorded survey data, assisted Mr. Bagley with accurately locating the area of the former UST #2.

Soils were screened for volatiles using a handheld PID. The PID did not detect volatiles in soil headspace readings. Three confirmation soil samples (FG-1N, FG-2E, and FG-3W) representing final grade were collected. The locations of soil samples FG-1N, FG-2E, and FG-3W respectively correspond with the locations of the soil samples W-3N, W-4E, and W-5W that were collected on October 27, 2015. Analytical results from soil samples collected in association with final excavation grade at the property indicate no soils remain in place with concentrations above screening levels. Groundwater was not encountered.

6.0 NATURAL CONDITIONS

6.1 Geology

Regional Geologic Setting: The Site is within the Puget Lowland geographic region where landforms were shaped by a combination of repeated advanced and retreats of glacial cover during the Pleistocene, followed by subsequent Holocene fluvial processes (Alt and Hyndman 1995; Easterbrook 1993; Franklin and Dyrness 1973). Recessional fill, outwash, and drift cover the bedrock in the Seattle area to depths up to 1,100 meters (3,700 feet), forming the broad lowland between Puget Sound and the Cascade mountain range (Galster and Laprade 1991). As the land was released from the weight of glacial ice during and immediately following deglaciation, sea levels in the Seattle areas dropped approximately 11 meters (35 feet) before rising gradually to near modern elevation about 5,000 years ago. Tectonic activity along the Seattle fault approximately 1,100 years ago also resulted in uplift and generated a tsunami in Puget Sound, both affected lake and sea elevations, deposition, and drainage patterns in Seattle (Bucknam et al., and Atwater & Moore 1992).

Property Geologic Conditions: Site geologic conditions are characterized by urban built up land. Site investigations indicate the Site is underlain by silt from 49.5 feet AMSL to 18 feet AMSL over glacial till, to the extent of exploration, 10 feet AMSL.

6.2 Cultural History/ Archaeology

No reported archaeological sites are associated with, recorded on, or adjacent to the property.

6.3 Surface Water

The nearest surface water is Elliott Bay, located 0.09 miles west. No surface water features are located within the property.

6.4 Groundwater

Based on proximity to Elliot Bay, the shallowest occurrence of groundwater is expected to be between 10-20 feet AMSL. Based on topography, the direction of shallow, unconfined groundwater flow is expected to be toward the west. Groundwater was not encountered in association with the Site. Geotechnical boring/well logs for the property indicate groundwater was not encountered to 15 feet AMSL. Available boring logs are presented as Appendix D.

6.5 Natural Resources and Ecological Receptors

A Terrestrial Ecological Evaluation (TEE) Exclusion Form is included as Appendix E. The Site was determined to qualify for an exclusion from further evaluation, based on the 'barriers to exposure' condition, WAC 173-340-7491(1)(b), which includes;

All contaminated soil, is or will be covered by physical barriers (such as buildings or paved roads) that prevent exposure to plants and wildlife, and institutional controls are used to manage remaining contamination.

7.0 CONCEPTUAL SITE MODEL

A Conceptual Site Model (CSM) was developed for the property using information from historical research and previous environmental investigations. The CSM includes a discussion of contaminants of concern, with an evaluation of occurrence and movement in affected or potentially affected media, to identify potential exposure pathways that could affect human health or the environment. Figure 4 presents the CSM via a contaminant pathway evaluation.

7.1 Contaminants of Concern and Occurrence

The following sections discuss Contaminants of Concern (COCs) and their occurrence within each media.

7.1.1 Soil

Gasoline impacted soils associated with a release from UST #2 was discovered during development activities. The cause of the release is unknown. Soil samples collected across the Site were analyzed for NWTPH-Gx, BTEX, NWTPH-Dx, NWTPH-Dx Ext., EDB, MTBE, EDC, Naphthalene, and lead. NWTPH-Dx, NWTPH-Dx Ext., EDB, MTBE, and EDC have not been detected at concentrations above screening levels in soil, and therefore are not considered COCs at the Site. Although lead was not detected in soil at concentrations of concern, the source of the release was leaded gasoline; therefore, it was included in the SAP for the Site.

Based on the location of former UST #2 and analytical results from soil samples collected at the Site, the constituents of concern (COCs) in soil are NWTPH-Gx, BTEX, lead, and naphthalene.

The Site boundaries (e.g. extent of contamination) have been confirmed to exist within property boundaries. Characterization and confirmation soil samples were collected between 49.5 to 57 feet AMSL, vertically and approximately 21 foot (north-south) by 12 foot (east-west) laterally. Confirmation soil samples collected and analyzed represent the final excavation depth associated with the new development. Excavation and proper disposal of Site soils was conducted, as described in Section 5 of this report, and no soils remain in place above screening levels; therefore, exposure pathways to human or ecological receptors are not complete.

7.2.1 Surface Water

There is not a surface water body or significant drainage on the Site. Therefore, an evaluation of this media is not necessary.

7.3.1 Groundwater

Since groundwater has not been encountered at the Site an evaluation of this media is not necessary. Expected groundwater is between 10-15 feet AMSL and current elevation of the Site is 49.5 feet AMSL. Confirmation soil samples collected from the Site indicate COCs below method detection limits, with the exception of lead which was detected at background concentrations. Groundwater is expected at least 30 feet lower than the impacted soil. Based on these site conditions, the soil to groundwater is not considered a complete exposure pathway.

7.4.1 Sediment

Sediment is not present on the Site. Therefore, an evaluation of this media is not necessary.

7.5.1 Air/ Soil Vapor

Using Ecology's Guidance for Evaluating Soil Vapor Intrusion in Washington State: Investigation and Remedial Action (Ecology Publication 09-09-047, April 2015) PBS conducted a *preliminary* vapor intrusion assessment for the Site. Since COCs in Site soils have been removed, further evaluation of the vapor intrusion pathway is not necessary.

7.2 Pathway Evaluation

No complete pathways for human and/or ecological receptors were identified. Please refer to Figure 4 for the CSM.

8.0 CLEANUP STANDARDS

Cleanup standards for soil that are protective of direct contact exposure have been established for Site COCs. Since groundwater is not associated with the Site, Method B Cleanup Levels (Method B), as defined in WAC 173-340-700 and 173-340-760, were selected as the most applicable cleanup criteria for all COCs, except lead. Lead will be compared to the Method A cleanup standard since a standard Cleanup Level and Risk Calculation (CLARC) Method B value is not established. The Site meets established Method A cleanup levels; however, in accordance with MTCA, cleanup levels must be developed based on the identified potential exposure pathways for humans and environmental impacts for current and future planned land use. The property is currently under development as a mixed use building with three levels of parking beneath the building, and future use is not anticipated to change.

As indicated in Section 7, the COCs in soil are NWTPH-Gx, BTEX, lead, and naphthalene. The point of compliance is in soils throughout the Site. MTCA Method B Cleanup levels, based on protection of the direct contact to soil exposure pathway, were obtained using standard CLARC values for BTEX and Naphthalene. The TPH in soil Method B cleanup level was calculated using Ecology's MTCATPH workbook and fractionization analytical data. Appendix F presents the MTCATPH workbook calculation. The following table presents the established soil cleanup levels for Site COCs:

Summary of Site-Specific Soil Cleanup Criteria:

NWTPH-Gx	Benzene	Toluene	Ethylbenzene	Xylenes	Lead	Naphthalene
1,038	18	6400	800	16000	250	1600

Concentrations are in mg/kg

9.0 MEDIA CLEANUP CRITERIA

9.1 Constituents of Concern

If the concentrations of COCs, previously identified for each affected media at the Site, are below selected cleanup levels, then the media cleanup criteria are considered satisfied.

9.2 Soil – Vertical and Lateral

Based on the established point(s) of compliance and the selected cleanup levels for the Site, there are no remaining COCs at the Site. A remedial excavation was conducted to removing and properly disposing of over 53.55 tons of PCS. Analysis from confirmation soil sampling conducted at the extents of excavation at the Site indicates no PCS remains in place above laboratory method detection limits, except lead, which was detected at background concentrations. The point of compliance is in soils throughout the Site.

9.3 Groundwater - Vertical and Lateral

Groundwater media cleanup criteria are not necessary for this Site.

9.4 Sediment

Sediment media cleanup criteria are not necessary for this Site.

9.5 Surface Water

Surface water media cleanup criteria are not necessary for this Site.

9.6 Air/ Soil Vapor

Air/soil vapor media cleanup criteria are not necessary for this Site.

10.0 CONCLUSIONS AND RECOMMENDATIONS

Conclusions

PBS presents this Remedial Investigation and Cleanup Action report for 1901 Western Avenue, Pike Place Marketfront Project, Seattle, Washington in accordance with Chapter 173-340 WAC. Based on current Site characterization information, established cleanup levels, and points of compliance identified for the Site, identified COCs are below cleanup levels.

The Site is characterized by a release of leaded gasoline to soil only, with no groundwater encountered. Analytical testing was conducted in accordance with the testing requirements listed in WAC 173-340-900, Table 830-1. Gasoline impacted soil associated with discovered tank UST #2 was remediated via excavation and disposal at an approved landfill. The UST removal and cleanup actions were completed at the Project Site between September 12 and November 24, 2015.

Request for Regulatory Closure

Analytical results from confirmation soil samples collected at the extents of excavation indicate no contaminants remain at the Site with concentrations above their respective method detection limits, except lead which was detected at background concentrations. Since risk(s) to human, terrestrial, and ecological receptors have been eliminated through cleanup action, PBS requests a No Further Action determination for the Site at the Initial Investigation Stage (WAC 173-340-310(5)(d)).

11.0 REFERENCES

Alt, D. & Hyndman, D. (1995). Northwest Exposures – A Geologic Story of the Northwest.

Atwater, B.F. & Moore, A.L. (1992). *A Tsunami About 1000 Years Ago in Puget Sound, Washington*. American Association for the Advancement of Science 258: 1614-1617.

Draft Guidance for Evaluating Soil Vapor Intrusion in Washington State: Investigation and Remedial Action: Publication No. 09-09-047, October 2009, Revised April 2015.

Easterbrook, D.J. (1993). Surface Processes and Landforms. Macmillan Publishing Company.

Franklin, J.F. and C.T., Dyrness. (1973). *Natural Vegetation of Oregon and Washington*. Oregon State University Press, Corvallis.

Galster, R.W. and Laprade, W.T. (1991). *Geology of Seattle, Washington, United States of America*. Bulletin of the Association of Engineering Geologists 28: 235-302.

Model Toxics Control Act Statute and Regulation; Chapter 70.105D RCW, Chapter 64.70 RCW, Chapter 173-340 WAC: Publication No. 94-06, Revised 2007.

Waldron, H., Liesch, B., Mullineaux, D., & Crandall, D. (1962). [Map.] *Preliminary Geologic Map of Seattle and Vicinity, Washington*. University of Washington Library, Seattle. Map No. I-354.

Cultural Resources Assessment (Northwest Archeological-2013) Master Use Permit (MUP) Application (MUP #3015514)

Geotechnical Report, Shannon & Wilson, Inc.-2013

SEPA Checklist Pike Place PDA, EA Engineering, revised November 15, 2013

12.0 LIMITATIONS

PBS has prepared this report for use by Pike Place PDA. This report is for the exclusive use of the client and is not to be relied upon by other parties. It is not to be photographed, photocopied, or similarly reproduced, in total or in part, without the expressed written consent of the client and PBS.

This investigation was based tests, locations, and depths as indicated to determine the absence or presence of certain contaminants. The site as a whole may have other contamination that was not characterized by this study. The findings and conclusions of this report are not scientific certainties but, rather, are probabilities based on professional judgment concerning the significance of the data gathered during the course of this investigation. PBS is not able to represent that the site or adjoining land contain no hazardous waste, oil or other latent conditions beyond that detected or observed by PBS.

Sincerely,

PBS Engineering and Environmental Inc.

December 17, 2015

Date

Audrey McIvor
Project Geologist

December 17, 2015

THOMAS J. MERGY

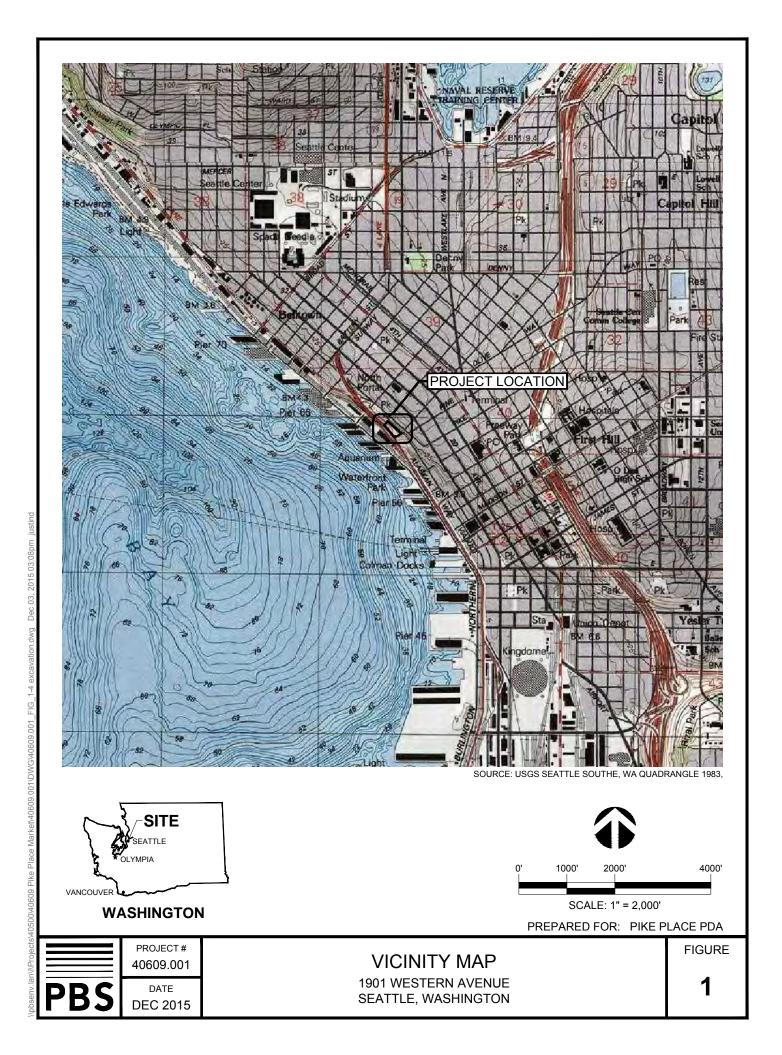
Date

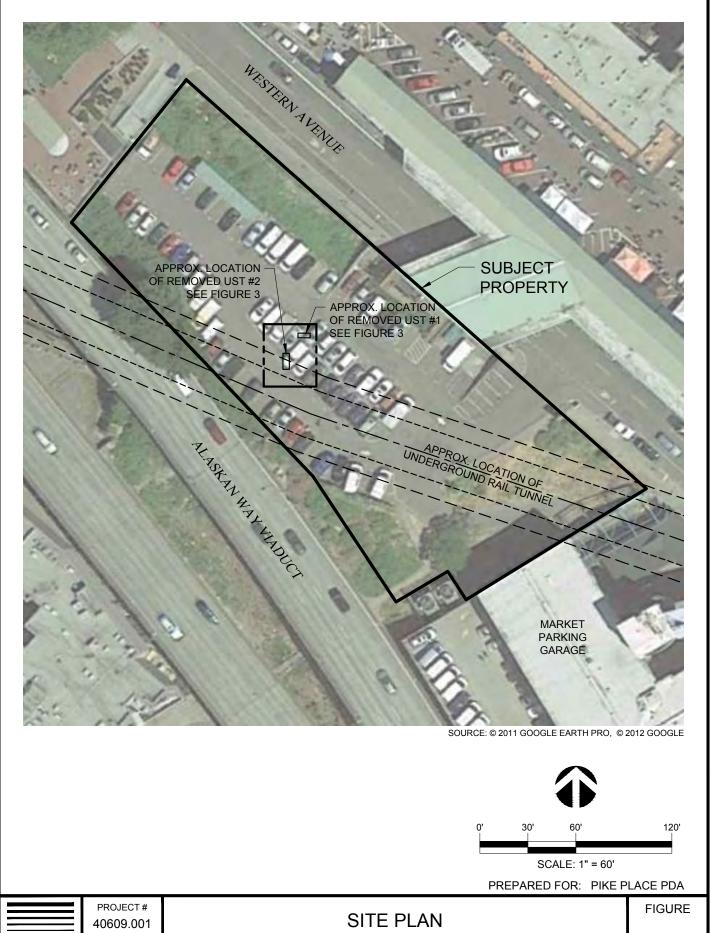
Tom Mergy, L'G Senior Geologist

Environmental Services Manager

FIGURES

FIGURE 1 – VICNITY MAP FIGURE 2 – SITE PLAN FIGURE 3 – SOIL INVESTIGATION DATA MAP FIGURE 4 – CONCEPTUAL SITE MODEL





1901 WESTERN AVENUE

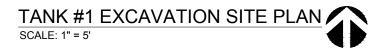
SEATTLE, WASHINGTON

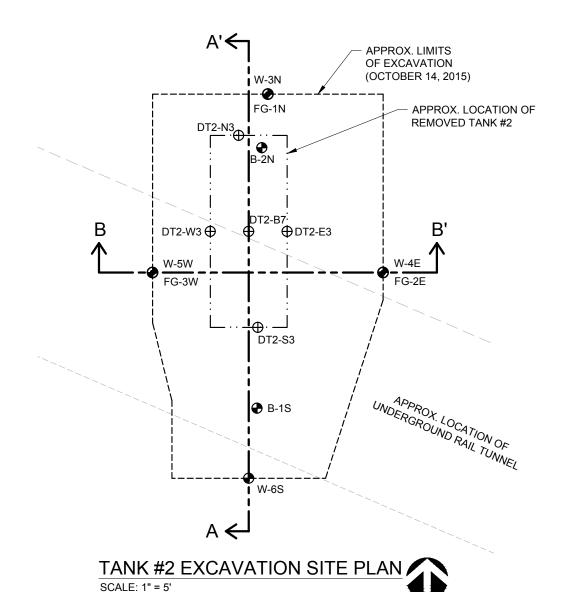
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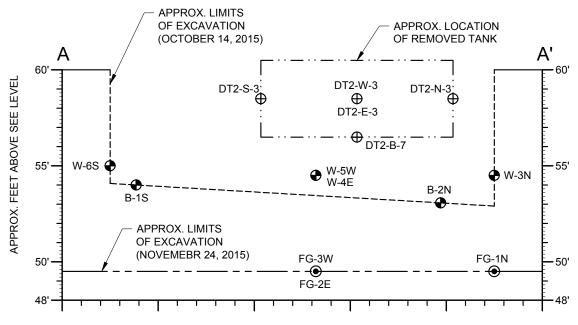
L./FIOJECIS/40300/40609 F

DATE

DEC 2015

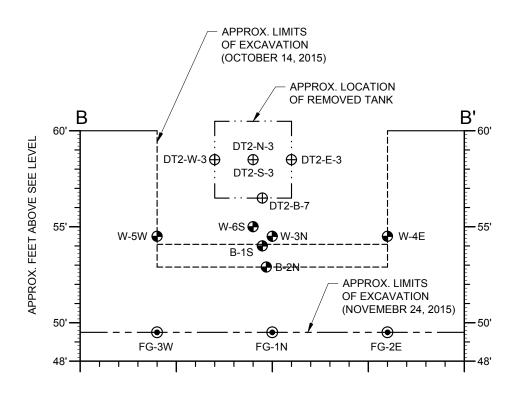






TANK #2 CROSS SECTION A - A'

SCALE: 1" = 5'



TANK #2 CROSS SECTION B - B'

LEGEND

DT2-E-3 TANK #2 SITE ASSESSMENT SOIL SAMPLE NUMBER AND LOCATION (PBS SEPT. 2015)

■ DT-E-3.0 TANK #1 SITE ASSESSMENT SOIL SAMPLE NUMBER AND LOCATION (PBS SEPT. 2015)

♣ B-1S CONFIRMATION SOIL SAMPLE NUMBER AND LOCATION (PBS OCT. 2015)

● FG-1N CONFIRMATION SOIL SAMPLE NUMBER AND LOCATION (PBS NOV. 2015)

NOTE: SOIL SAMPLES COLLECTED IN SEPTEMBER AND OCTOBER 2015 WERE SUBSEQUENTLY OVEREXCAVATED

REMEDIAL INVESTIGATION
AND CLEANUP ACTION REPORT
1901 WESTERN AVENUE
SEATTLE, WASHINGTON

Engineering +

Environmental

2517 Eastlake Ave East Suite 100

Seattle, WA 98102 206.233.9639

www.pbsenv.com

SOIL

DATA MAP

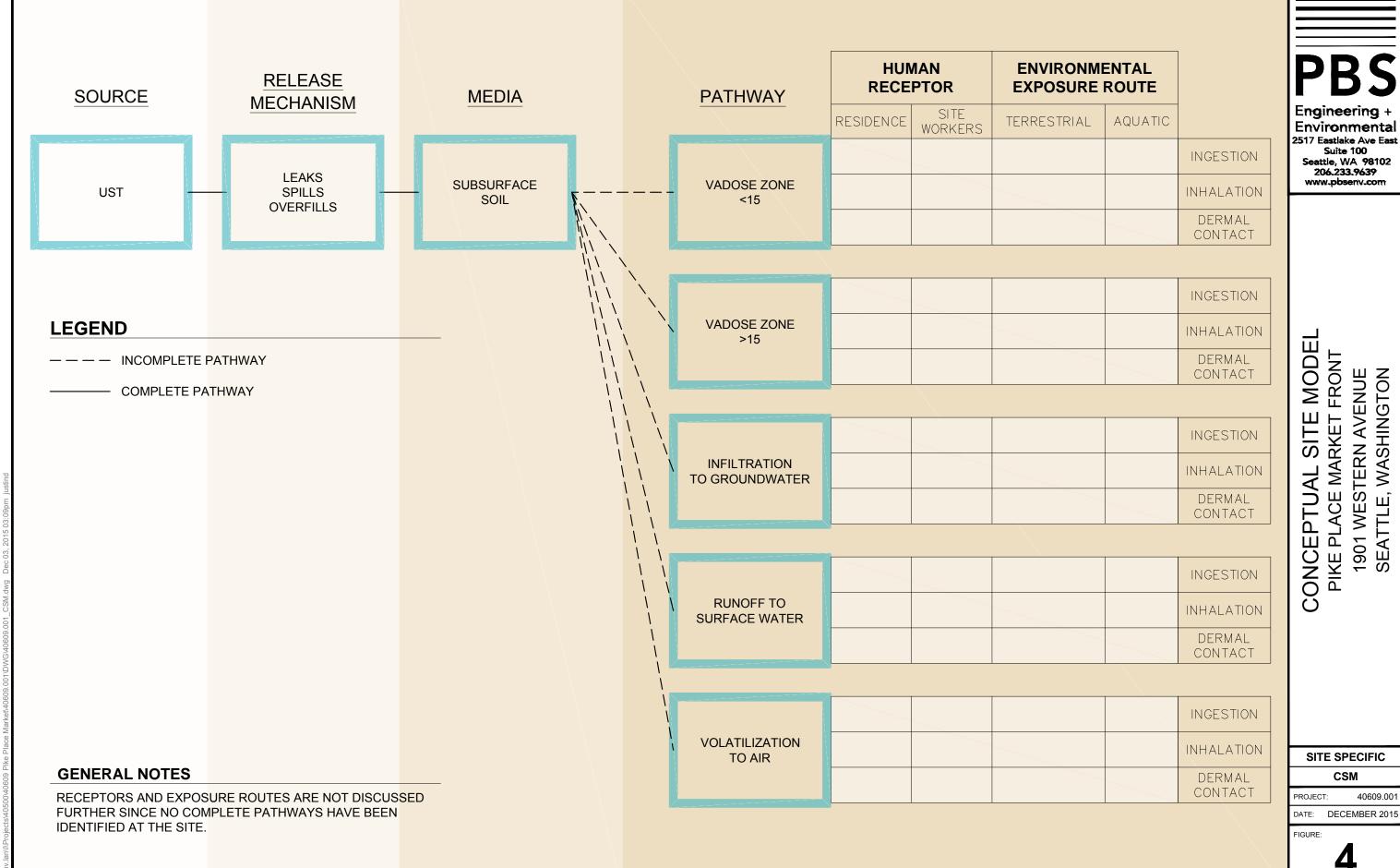
PROJECT: 40609.001

DATE: DECEMBER 2015

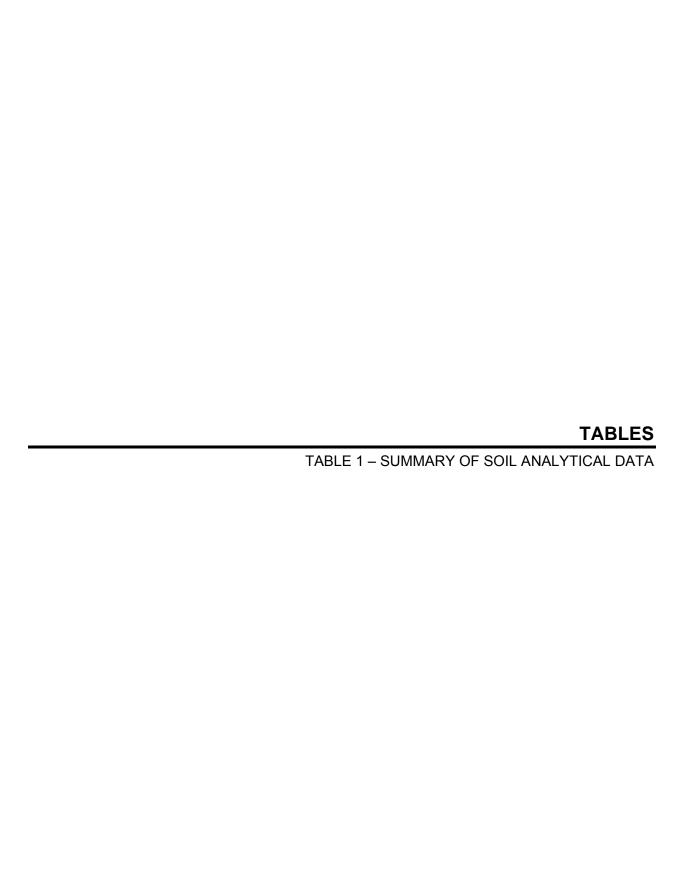
FIGURE:

PREPARED FOR: PIKE PLACE PDA

3



PREPARED FOR: PIKE PLACE PDA



Pike Place Market PDA Project Number: 40609.001

TABLE 1 SOIL ANALYTICAL RESULTS 1901 Western Avenue Seattle, Washington

				R	esult mg/k	a						
	TPHs VOCs Additives Other											
Criteria	Gx	Dx	Dxe	Benzene	Toluene	Ethyl Benzene	Xylene	EDB	EDC	MTBE	Lead	Naph
MTCA Soil Cleanup Criteria*	1038	2000	2000	18	6400	800	16000	0.50	NA	556	250	1600
Location-Depth	Gx	Dx	Dxe	Benzene	Toluene	Ethyl Benzene	Xylene	EDB	EDC	MTBE	Lead	Naph
UST #1 Site Assessme	ent Soil S	ampling: S	Septembe	er 11, 2015		•	•	•	•			•
DT-N-3.0	<4.35	<24.8	<62.1	<0.02	<0.02	<0.03	<0.02	-	-	-	-	-
DT-S-3.0	<3.32	<25.5	<63.8	<0.01	<0.01	<0.02	<0.01	-	-	-	-	-
DT-E-3.0	<3.97	<25.1	<62.8	0.02	0.07	<0.02	0.04	-	-	-	-	-
DT-W-3.0	<4.64	<25.4	<63.6	<0.02	<0.02	<0.03	<0.02	-	-	-	-	-
DT-B-7.0	<3.29	<25.3	<63.2	<0.01	<0.01	<0.02	<0.01	-	-	-	-	-
UST #2 Site Assessme	ent Soil S	ampling: \$	Septembe	r 28, 2015								
DT2-N-3	<3.59	<22.4	<55.9	<0.01	<0.01	<0.02	<0.01	-	-	-	3.79	-
DT2-S-3	2,890	<24.9	<62.3	7.05	51.4	20.2	115	-	-	-	4.85	-
DT2-E-3	3,300	<26.5	<66.3	11.4	50.8	17.9	103	<0.005	2.42	<0.05	9.05	18.4
DT2-W-3	11.4	<23.4	<58.6	0.09	0.27	0.07	0.04	-	-	-	5.99	-
DT2-B-7	357	<25.5	<63.6	0.54	3.49	1.5	8.75	-	-	-	19.1	-
Delineation (test pit) S	Soil Samp	ling: Sept	ember 30	, 2015								
TP-1	5,780	-	-	5.55	41	18.5	111.7	-	-	-	19.4	-
TP-2N	<8.05	-	-	<0.03	0.04	<0.05	0.04	-	-	-	14.5	-
TP-3E	<5.26	-	-	<0.02	<0.02	<0.03	<0.02	-	-	-	2.63	-
TP-4W	<5.90	-	-	<0.02	<0.02	<0.04	<0.02	-	-	-	3.99	-
UST #2 Confirmation	Soil Sam	oling: Octo	ber 14, 2	015								
B-1S (54 feet AMSL)	<5.70	-	-	<0.02	<0.02	<0.03	<0.02	-	-	-	3.2	-
B-2N (53 feet AMSL)	<6.66	-	-	<0.03	<0.03	<0.04	<0.03	-	-	-	6.94	-
W-5W (54 feet AMSL)	13	-	-	0.05	<0.03	<0.04	<0.03	-	-	-	6.87	-
W-3N (54 feet AMSL)	<4.83	-	-	0.06	0.07	<0.03	0.05	-	-	-	9.11	-
W-6S (55 feet AMSL)	<7.09	-	-	< 0.03	<0.03	<0.04	<0.03	-	-	-	9.12	-
W-4E** (54 feet AMSL)	84.5	-	-	1.86	2.61	0.64	6.0	-	-	-	19.4	0.449
UST #2 Confirmation	Soil Sam	oling: Nov	ember 24	2015								
FG-1N	<8.14	-	-	< 0.03	<0.03	<0.05	< 0.03	-	-	-	14.3	<0.05
FG-2E	<7.39	-	-	<0.03	<0.03	<0.04	<0.03	-	-	-	9.83	<0.04
FG-3W	<6.90	-	-	<0.03	<0.03	<0.04	< 0.03	-	-	-	14.7	<0.04
KEY BOLD indicates a soil cleanu	ıp level exce	edance			: Soil sample	s were subse	quently exca	vated and p	properly d	isposed o	ff-site	
	mg/kg - milligrams of contaminant per kilogram of dry weight soil VOCs - volatile organic compounds by Method 8260											
Gx - Gasoline range hydrocarbons by Method NWTPH-Gx <xx -="" above="" at="" detected="" laboratory="" limit<="" material="" method="" not="" or="" reporting="" td="" the=""></xx>												
Dx - Diesel range hydrocarbons by Method NWTPH-Dx Total Lead by EPA Method 200.8												
	Dxe - Heavy oil range hydrocarbons by Method NWTPH-Dxe Naph - naphthalenes (naphthalene+ 1-methyl naphthalene + 2-methyl naphthalene)											
TPH - total petroleum hydroca	arbons			AMSL - Abov	ve Mean Sea	Level						
Cleanup levels for constituents of concern were determined by using Ecology's Cleanup Levels and Risk Calculations (CLARC) for Method B (direct contact with soil) under he Model Toxics Control Act (MTCA) Regulation. A Site specific TPH Soil Cleanup Level was calculated using Workbook Tools for Calculating Soil and Groundwater Cleanup Levels under MTCA - MTCATPH 11.1, see Attachment F for spreadsheet.												
Soil sample "W-4E" was also analyzed for Volatile Petroleum Hydrocarbons by Method NWVPH. Refer to laboratory analytical report for results.												



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New Search	Property Tax Bill	Map This Property	Glossary of Terms	Area Report	Print Property Detail	人

	P.A
Parcel	197720-0330
Name	PIKE PLACE MARKET PDA
Site Address	1501 WESTERN AVE 98101
Geo Area	30-80
Spec Area	
Property Name	PARKING

ARCEL DATA						
1	Jurisdiction	SEATTLE				
	Levy Code	0012				
	Property Type	С				
	Plat Block / Building Number	36				
	Plat Lot / Unit Number	5 THRU 12				
	Quarter-Section-Township- Range	SE-31-25-4				

Legal Description

DENNYS AA 6TH ADD PORS LOTS 5 THRU 12 & PORS VAC ALLEY & VAC STS ADJ DAF - BEG MOST NLY COR SD LOT 5 BLK 36 TH SWLY ALG NWLY LN SD LOT 5 TO NXN WITH NELY MGN ARMORY WAY TH SELY ALG SD NELY MGN TOP ON A LN PLW & 30 FT NW OF THE NWLY LN OF BLK H AKA A A DENNYS 4TH ADD TO CITY OF SEATTLE TH NELY ALG SD PLL LN TO SWLY LN OF WESTERN AVE TH NWLY ALG SD SWLY MGN TO NXN WITH NLY LN LOT 6 BLK 36 SD PLAT TH SWLY ALG NWLY LN SD LOT 6 TO ORS TWLY COR THOF TH SWLY ALG SWLY PROD OF NWLY LN SD LOT 6 TO POB LESS POR THOF FOR BNRT RUNNEL ESMT AKA POR PCL B SEA LLA #8800103 REC #8807250812 & AMENDED UNDER REC # 8811290942 SEE ALSO MINOR # 0329 PLat Block: 36 Plat Lot: 5 THRU 12

LAND DATA

Highest & Best Use As If Vacant	COMMERCIAL SERVICE
Highest & Best Use As Improved	OTHER
Present Use	Parking(Commercial Lot)
Land SqFt	30,956
Acres	0.71

Views				
Rainier				
Territorial				
Olympics				
Cascades				
Seattle Skyline				
Puget Sound				
Lake Washington				
Lake Sammamish				
Lake/River/Creek				
Other View				

Designat	10115
Historic Site	
Current Use	(none)
Nbr Bldg Sites	
Adjacent to Golf Fairway	NO
Adjacent to Greenbelt	NO
Other Designation	NO
Deed Restrictions	NO
Development Rights Purchased	NO
Easements	NO
Native Growth Protection Easement	NO
DNR Lease	NO

Percentage Unusable	0
Unbuildable	NO
Restrictive Size Shape	YES
Zoning	PMM-85
Water	WATER DISTRICT
Sewer/Septic	PUBLIC
Road Access	PUBLIC
Parking	ADEQUATE
Street Surface	

Waterfront						
Waterfront Location						
Waterfront Footage	0					
Lot Depth Factor	0					
Waterfront Bank						
Tide/Shore						
Waterfront Restricted Access						
Waterfront Access Rights	NO					
Poor Quality	NO					
Proximity Influence	NO					

Nuisances					
Topography					
Traffic Noise					
Airport Noise					
Power Lines	NO				
Other Nuisances	NO				
Problems					

FIUDICIIIS						
Water Problems	NO					
Transportation Concurrency	NO					
Other Problems	NO					
Environmental						

Environmental

Environmental	NO
---------------	----

BUILDING

Reference Links:

- King County Tax Links
- Property Tax Advisor
- Washington State
 Department of
 Revenue (External link)
- Washington State
 Board of Tax
 Appeals (External link)
- Board of Appeals/Equalization
- Districts Report
- □ <u>iMap</u>
- Recorder's Office

Scanned images of surveys and other map documents

Scanned images of plats

Notice mailing date: 07/23/2015

TAX ROLL HISTORY

Account	Valued Year	Tax Year	Omit Year	Levy Code	Appraised Land Value (\$)	Appraised Imps Value (\$)	Appraised Total Value (\$)	New Dollars (\$)	Taxable Land Value (\$)	Taxable Imps Value (\$)	Taxable Total Value (\$)	Tax Value Reason
197720033004	2015	2016		0012	6,036,400	0	6,036,400	0	0	0	0	EX
197720033004	2014	2015		0010	5,726,800	0	5,726,800	0	0	0	0	EX
197720033004	2013	2014		0010	5,417,300	0	5,417,300	0	0	0	0	EX
197720033004	2012	2013		0010	4,643,400	0	4,643,400	0	0	0	0	EX
197720033004	2011	2012		0010	4,643,400	0	4,643,400	0	0	0	0	EX
197720033004	2010	2011		0010	4,643,400	0	4,643,400	0	0	0	0	EX
197720033004	2009	2010		0010	4,643,400	0	4,643,400	0	0	0	0	EX
197720033004	2008	2009		0010	4,643,400	0	4,643,400	0	0	0	0	EX
197720033004	2007	2008		0010	4,643,400	0	4,643,400	0	0	0	0	EX
197720033004	2006	2007		0010	3,792,100	0	3,792,100	0	0	0	0	EX
197720033004	2005	2006		0010	3,792,100	0	3,792,100	0	0	0	0	EX
197720033004	2004	2005		0010	3,792,100	0	3,792,100	0	0	0	0	EX
197720033004	2003	2004		0010	3,792,100	0	3,792,100	0	0	0	0	EX
197720033004	2002	2003		0010	3,792,100	0	3,792,100	0	0	0	0	EX
197720033004	2001	2002		0010	3,714,700	0	3,714,700	0	0	0	0	EX
197720033004	2000	2001		0010	3,714,700	0	3,714,700	0	0	0	0	EX
197720033004	1999	2000		0010	3,714,700	0	3,714,700	0	0	0	0	EX
197720033004	1997	1998		0010	0	0	0	0	3,095,600	0	3,095,600	
197720033004	1996	1997		0010	0	0	0	0	3,095,600	0	3,095,600	
197720033004	1994	1995		0010	0	0	0	0	3,095,600	0	3,095,600	
197720033004	1992	1993		0010	0	0	0	0	3,095,600	0	3,095,600	
197720033004	1990	1991		0010	0	0	0	0	3,095,600	0	3,095,600	
197720033004	1989	1990		0010	0	0	0	0	3,095,600	0	3,095,600	
197720033004	1988	1989		0010	0	0	0	0	2,169,400	0	2,169,400	
197720033004	1987	1988		0010	0	0	0	0	2,169,400	0	2,169,400	

SALES HISTORY

Excise Number	Recording Number	Document Date	Sale Price	Seller Name	Buyer Name	Instrument	Sale Reason
2740904	20150702000603	6/1/2015	\$0.00	SEATTLE CITY OF	PIKE PLACE MARKET PRESERVATION & DEVELOPMENT AUTHORITY	Quit Claim Deed	Other

REVIEW HISTORY

PERMIT HISTORY

HOME IMPROVEMENT EXEMPTION

New Search | Property Tax Bill | Map This Property | Glossary of Terms | Area Report | Print Property Detail

Updated: April 22, 2015

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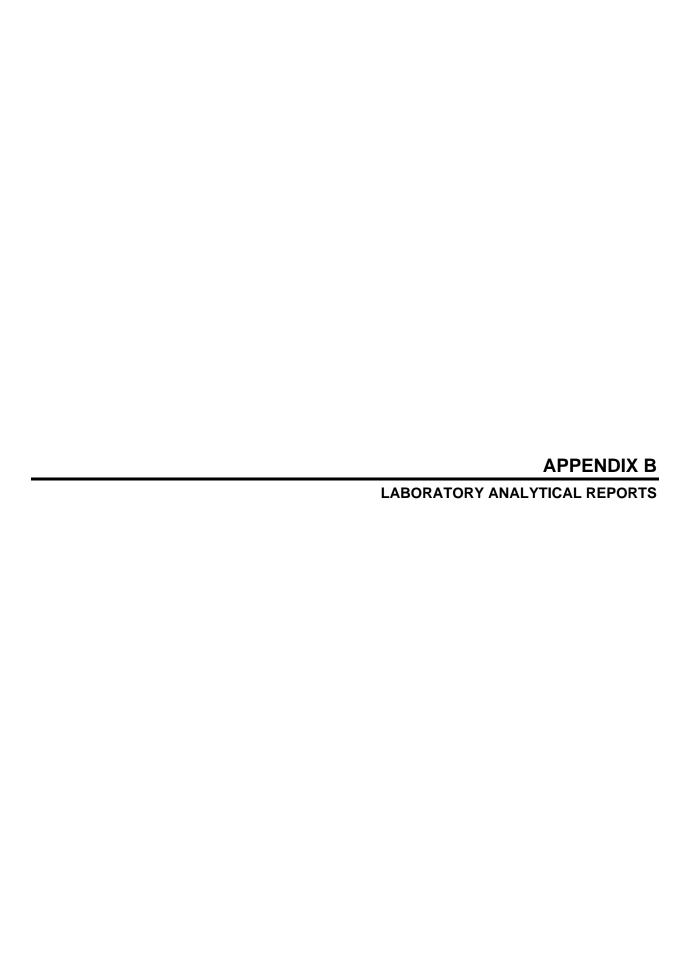
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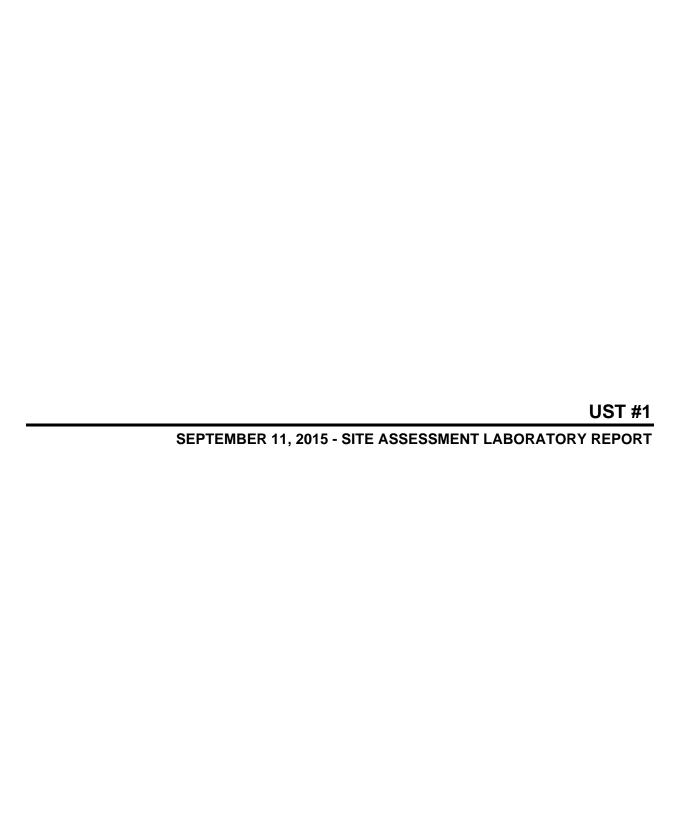
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3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

PBS Engineering & Environmental

Audrey McIvor 2517 Eastlake Ave, E #100 Seattle, WA 98102

RE: Pike Place PDA Lab ID: 1509150

September 14, 2015

Attention Audrey McIvor:

Fremont Analytical, Inc. received 6 sample(s) on 9/11/2015 for the analyses presented in the following report.

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Gasoline by NWTPH-Gx

Sample Moisture (Percent Moisture)

Volatile Organic Compounds by EPA Method 8260

This report consists of the following:

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

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

Thank you for using Fremont Analytical.

Sincerely,

Chelsea Ward Project Manager

Date: 09/14/2015



CLIENT: PBS Engineering & Environmental Work Order Sample Summary

Project: Pike Place PDA

Lab Order: 1509150

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1509150-001	DT-N-3.0	09/11/2015 2:25 PM	09/11/2015 3:39 PM
1509150-002	DT-S-3.0	09/11/2015 2:35 PM	09/11/2015 3:39 PM
1509150-003	DT-E-3.0	09/11/2015 2:48 PM	09/11/2015 3:39 PM
1509150-004	DT-W-3.0	09/11/2015 2:15 PM	09/11/2015 3:39 PM
1509150-005	DT-B-7.0	09/11/2015 3:03 PM	09/11/2015 3:39 PM
1509150-006	Trip Blank	03/17/2015 4:04 PM	09/11/2015 3:39 PM



Case Narrative

WO#: **1509150**Date: **9/14/2015**

CLIENT: PBS Engineering & Environmental

Project: Pike Place PDA

I. SAMPLE RECEIPT:

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

II. GENERAL REPORTING COMMENTS:

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

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

III. ANALYSES AND EXCEPTIONS:

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



Qualifiers & Acronyms

WO#: **1509150**

Date Reported: 9/14/2015

Qualifiers:

- * Flagged value is not within established control limits
- B Analyte detected in the associated Method Blank
- D Dilution was required
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- I Analyte with an internal standard that does not meet established acceptance criteria
- J Analyte detected below LOQ
- N Tentatively Identified Compound (TIC)
- Q Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S Spike recovery outside accepted recovery limits
- ND Not detected at the Reporting Limit

Acronyms:

%Rec - Percent Recovery

CCB - Continued Calibration Blank

CCV - Continued Calibration Verification

DF - Dilution Factor

HEM - Hexane Extractable Material

ICV - Initial Calibration Verification

LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate

MB or MBLANK - Method Blank

MDL - Method Detection Limit

MS/MSD - Matrix Spike / Matrix Spike Duplicate

PDS - Post Digestion Spike

Ref Val - Reference Value

RL - Reporting Limit

RPD - Relative Percent Difference

SD - Serial Dilution

SGT - Silica Gel Treatment

SPK - Spike

Surr - Surrogate



WO#: **1509150**

Date Reported: 9/14/2015

Client: PBS Engineering & Environmental Collection Date: 9/11/2015 2:25:00 PM

Project: Pike Place PDA

Lab ID: 1509150-001 **Matrix:** Soil

Client Sample ID: DT-N-3.0

Analyses	Result	RL	Qual	Units	DF	- Da	te Analyzed
Diesel and Heavy Oil by NWTPH-Dx	/Dx Ext.			Batch	ID:	11814	Analyst: EC
Diesel (Fuel Oil)	ND	24.8		mg/Kg-dry	1	9/12/	2015 12:20:00 AM
Heavy Oil	ND	62.1		mg/Kg-dry	1	9/12/	2015 12:20:00 AM
Surr: 2-Fluorobiphenyl	90.0	50-150		%REC	1	9/12/	2015 12:20:00 AM
Surr: o-Terphenyl	89.5	50-150		%REC	1	9/12/	2015 12:20:00 AM
Gasoline by NWTPH-Gx				Batch	ID:	11821	Analyst: BC
Gasoline	ND	4.35		mg/Kg-dry	1	9/11/	2015 8:26:00 PM
Surr: 4-Bromofluorobenzene	97.4	65-135		%REC	1	9/11/	2015 8:26:00 PM
Surr: Toluene-d8	99.7	65-135		%REC	1	9/11/	2015 8:26:00 PM
Volatile Organic Compounds by EP	A Method	<u>8260</u>		Batch	ID:	11821	Analyst: BC
Benzene	ND	0.0174		mg/Kg-dry	1	9/11/	2015 8:26:00 PM
Toluene	ND	0.0174		mg/Kg-dry	1	9/11/	2015 8:26:00 PM
Ethylbenzene	ND	0.0261		mg/Kg-dry	1	9/11/	2015 8:26:00 PM
m,p-Xylene	ND	0.0174		mg/Kg-dry	1	9/11/	2015 8:26:00 PM
o-Xylene	ND	0.0174		mg/Kg-dry	1	9/11/	2015 8:26:00 PM
Surr: Dibromofluoromethane	97.2	56.5-129		%REC	1	9/11/	2015 8:26:00 PM
Surr: Toluene-d8	96.1	64.3-131		%REC	1	9/11/	2015 8:26:00 PM
Surr: 1-Bromo-4-fluorobenzene	95.1	63.1-141		%REC	1	9/11/	2015 8:26:00 PM
Sample Moisture (Percent Moisture)			Batch	ID:	R24826	Analyst: CG
Percent Moisture	19.4	0.500		wt%	1	9/11/	2015 3:32:04 PM



WO#: **1509150**

Date Reported: 9/14/2015

Client: PBS Engineering & Environmental Collection Date: 9/11/2015 2:35:00 PM

Project: Pike Place PDA

Lab ID: 1509150-002 **Matrix:** Soil

Client Sample ID: DT-S-3.0

Analyses	Result	RL	Qual	Units	DF	- Da	te Analyzed
Diesel and Heavy Oil by NWTPH	-Dx/Dx Ext.			Batch	ı ID:	11814	Analyst: EC
Diesel (Fuel Oil)	ND	25.5		mg/Kg-dry	1	9/12/	2015 12:51:00 AM
Heavy Oil	ND	63.8		mg/Kg-dry	1	9/12/	2015 12:51:00 AM
Surr: 2-Fluorobiphenyl	107	50-150		%REC	1	9/12/	2015 12:51:00 AM
Surr: o-Terphenyl	103	50-150		%REC	1	9/12/	2015 12:51:00 AM
Gasoline by NWTPH-Gx				Batch	ı ID:	11821	Analyst: BC
Gasoline	ND	3.32		mg/Kg-dry	1	9/11/	2015 9:23:00 PM
Surr: 4-Bromofluorobenzene	97.9	65-135		%REC	1	9/11/	2015 9:23:00 PM
Surr: Toluene-d8	100	65-135		%REC	1	9/11/	2015 9:23:00 PM
Volatile Organic Compounds by	EPA Method	<u>8260</u>		Batch	ı ID:	11821	Analyst: BC
Benzene	ND	0.0133		mg/Kg-dry	1	9/11/	2015 9:23:00 PM
Toluene	ND	0.0133		mg/Kg-dry	1	9/11/	2015 9:23:00 PM
Ethylbenzene	ND	0.0199		mg/Kg-dry	1	9/11/	2015 9:23:00 PM
m,p-Xylene	ND	0.0133		mg/Kg-dry	1	9/11/	2015 9:23:00 PM
o-Xylene	ND	0.0133		mg/Kg-dry	1	9/11/	2015 9:23:00 PM
Surr: Dibromofluoromethane	96.6	56.5-129		%REC	1	9/11/	2015 9:23:00 PM
Surr: Toluene-d8	96.7	64.3-131		%REC	1	9/11/	2015 9:23:00 PM
Surr: 1-Bromo-4-fluorobenzene	95.2	63.1-141		%REC	1	9/11/	2015 9:23:00 PM
Sample Moisture (Percent Moist	ure)			Batch	ı ID:	R24826	Analyst: CG
Percent Moisture	21.7	0.500		wt%	1	9/11/	2015 3:32:04 PM



WO#: **1509150**

Date Reported: 9/14/2015

Client: PBS Engineering & Environmental Collection Date: 9/11/2015 2:48:00 PM

Project: Pike Place PDA

Lab ID: 1509150-003 **Matrix:** Soil

Client Sample ID: DT-E-3.0

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Diesel and Heavy Oil by NWTPH	-Dx/Dx Ext.			Batch	ı ID:	11814 Analyst: EC
Diesel (Fuel Oil)	ND	25.1		mg/Kg-dry	1	9/12/2015 1:23:00 AM
Heavy Oil	ND	62.8		mg/Kg-dry	1	9/12/2015 1:23:00 AM
Creosote	271	62.8		mg/Kg-dry	1	9/12/2015 1:23:00 AM
Surr: 2-Fluorobiphenyl	112	50-150		%REC	1	9/12/2015 1:23:00 AM
Surr: o-Terphenyl	106	50-150		%REC	1	9/12/2015 1:23:00 AM
Gasoline by NWTPH-Gx				Batch	ı ID:	11821 Analyst: BC
Gasoline	ND	3.97		mg/Kg-dry	1	9/11/2015 9:52:00 PM
Surr: 4-Bromofluorobenzene	98.6	65-135		%REC	1	9/11/2015 9:52:00 PM
Surr: Toluene-d8	99.9	65-135		%REC	1	9/11/2015 9:52:00 PM
Volatile Organic Compounds by	EPA Method	<u>8260</u>		Batch	ı ID:	11821 Analyst: BC
Benzene	0.0183	0.0159		mg/Kg-dry	1	9/11/2015 9:52:00 PM
Toluene	0.0664	0.0159		mg/Kg-dry	1	9/11/2015 9:52:00 PM
Ethylbenzene	ND	0.0238		mg/Kg-dry	1	9/11/2015 9:52:00 PM
m,p-Xylene	0.0426	0.0159		mg/Kg-dry	1	9/11/2015 9:52:00 PM
o-Xylene	ND	0.0159		mg/Kg-dry	1	9/11/2015 9:52:00 PM
Surr: Dibromofluoromethane	96.3	56.5-129		%REC	1	9/11/2015 9:52:00 PM
Surr: Toluene-d8	97.4	64.3-131		%REC	1	9/11/2015 9:52:00 PM
Surr: 1-Bromo-4-fluorobenzene	96.2	63.1-141		%REC	1	9/11/2015 9:52:00 PM
Sample Moisture (Percent Moist	ure)			Batch	ı ID:	R24826 Analyst: CG
Percent Moisture	20.3	0.500		wt%	1	9/11/2015 3:32:04 PM



WO#: **1509150**

Date Reported: 9/14/2015

Client: PBS Engineering & Environmental Collection Date: 9/11/2015 2:15:00 PM

Project: Pike Place PDA

Lab ID: 1509150-004 **Matrix:** Soil

Client Sample ID: DT-W-3.0

Analyses	Result	RL	Qual	Units	DF	- Dat	e Analyzed
Diesel and Heavy Oil by NWTPI	I-Dx/Dx Ext.			Batch	ID:	11814	Analyst: EC
Diesel (Fuel Oil)	ND	25.4		mg/Kg-dry	1	9/12/2	015 1:54:00 AM
Heavy Oil	ND	63.6		mg/Kg-dry	1	9/12/2	015 1:54:00 AM
Surr: 2-Fluorobiphenyl	103	50-150		%REC	1	9/12/2	015 1:54:00 AM
Surr: o-Terphenyl	99.6	50-150		%REC	1	9/12/2	015 1:54:00 AM
Gasoline by NWTPH-Gx				Batch	ID:	11821	Analyst: BC
Gasoline	ND	4.64		mg/Kg-dry	1	9/11/2	015 10:21:00 PM
Surr: 4-Bromofluorobenzene	98.0	65-135		%REC	1	9/11/2	015 10:21:00 PM
Surr: Toluene-d8	102	65-135		%REC	1	9/11/2	015 10:21:00 PM
Volatile Organic Compounds by	/ EPA Method	<u>8260</u>		Batch	ID:	11821	Analyst: BC
Benzene	ND	0.0186		mg/Kg-dry	1	9/11/2	015 10:21:00 PM
Toluene	ND	0.0186		mg/Kg-dry	1	9/11/2	015 10:21:00 PM
Ethylbenzene	ND	0.0278		mg/Kg-dry	1	9/11/2	015 10:21:00 PM
m,p-Xylene	ND	0.0186		mg/Kg-dry	1	9/11/2	015 10:21:00 PM
o-Xylene	ND	0.0186		mg/Kg-dry	1	9/11/2	015 10:21:00 PM
Surr: Dibromofluoromethane	95.7	56.5-129		%REC	1	9/11/2	015 10:21:00 PM
Surr: Toluene-d8	96.5	64.3-131		%REC	1	9/11/2	015 10:21:00 PM
Surr: 1-Bromo-4-fluorobenzene	95.3	63.1-141		%REC	1	9/11/2	015 10:21:00 PM
Sample Moisture (Percent Mois	ture)			Batch	ID:	R24826	Analyst: CG
Percent Moisture	21.4	0.500		wt%	1	9/11/2	015 3:32:04 PM



WO#: **1509150**

Date Reported: 9/14/2015

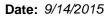
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Project: Pike Place PDA

Lab ID: 1509150-005 **Matrix:** Soil

Client Sample ID: DT-B-7.0

Analyses	Result	RL	Qual	Units	DF	- Da	te Analyzed
Diesel and Heavy Oil by NWTPH	-Dx/Dx Ext.			Batch	ı ID:	11814	Analyst: EC
Diesel (Fuel Oil)	ND	25.3		mg/Kg-dry	1	9/12/	2015 2:25:00 AM
Heavy Oil	ND	63.2		mg/Kg-dry	1	9/12/	2015 2:25:00 AM
Surr: 2-Fluorobiphenyl	119	50-150		%REC	1	9/12/	2015 2:25:00 AM
Surr: o-Terphenyl	116	50-150		%REC	1	9/12/	2015 2:25:00 AM
Gasoline by NWTPH-Gx				Batch	ı ID:	11821	Analyst: BC
Gasoline	ND	3.29		mg/Kg-dry	1	9/11/	2015 10:49:00 PM
Surr: 4-Bromofluorobenzene	96.7	65-135		%REC	1	9/11/	2015 10:49:00 PM
Surr: Toluene-d8	102	65-135		%REC	1	9/11/	2015 10:49:00 PM
Volatile Organic Compounds by	EPA Method	<u>8260</u>		Batch	ı ID:	11821	Analyst: BC
Benzene	ND	0.0132		mg/Kg-dry	1	9/11/	2015 10:49:00 PM
Toluene	ND	0.0132		mg/Kg-dry	1	9/11/	2015 10:49:00 PM
Ethylbenzene	ND	0.0198		mg/Kg-dry	1	9/11/	2015 10:49:00 PM
m,p-Xylene	ND	0.0132		mg/Kg-dry	1	9/11/	2015 10:49:00 PM
o-Xylene	ND	0.0132		mg/Kg-dry	1	9/11/	2015 10:49:00 PM
Surr: Dibromofluoromethane	95.8	56.5-129		%REC	1	9/11/	2015 10:49:00 PM
Surr: Toluene-d8	96.5	64.3-131		%REC	1	9/11/	2015 10:49:00 PM
Surr: 1-Bromo-4-fluorobenzene	94.1	63.1-141		%REC	1	9/11/	2015 10:49:00 PM
Sample Moisture (Percent Moist	ure)			Batch	ı ID:	R24826	Analyst: CG
Percent Moisture	20.8	0.500		wt%	1	9/11/	2015 3:32:04 PM

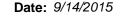




QC SUMMARY REPORT

CLIENT: PBS Engineering & Environmental

Project: Pike Place	PDA						Diesel	and Heavy	Oil by NW	TPH-Dx/[Ox Ex
Sample ID MB-11814	SampType: MBLK			Units: mg/l	K g	Prep Da	te: 9/11/2	015	RunNo: 24	329	
Client ID: MBLKS	Batch ID: 11814					Analysis Da	te: 9/11/2	015	SeqNo: 46	7851	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel (Fuel Oil)	ND	20.0									
Heavy Oil	ND	50.0									
Surr: 2-Fluorobiphenyl	19.0		20.00		94.9	50	150				
Surr: o-Terphenyl	18.1		20.00		90.5	50	150				
Sample ID LCS-11814	SampType: LCS			Units: mg/l	K g	Prep Da	te: 9/11/2	015	RunNo: 24	329	
Client ID: LCSS	Batch ID: 11814					Analysis Da	te: 9/11/2	015	SeqNo: 46	7850	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel (Fuel Oil)	494	20.0	500.0	0	98.7	65	135				
Surr: 2-Fluorobiphenyl	18.1		20.00		90.7	50	150				
Surr: o-Terphenyl	17.2		20.00		85.9	50	150				
Sample ID 1509137-003ADUP	SampType: DUP			Units: mg/k	Kg-dry	Prep Da	te: 9/11/2	015	RunNo: 24	829	
Client ID: BATCH	Batch ID: 11814					Analysis Da	te: 9/11/2	015	SeqNo: 46	7842	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel (Fuel Oil)	ND	18.7						0		30	
Heavy Oil	ND	46.8						0		30	
Surr: 2-Fluorobiphenyl	17.9		18.72		95.4	50	150		0		
Surr: o-Terphenyl	17.0		18.72		90.9	50	150		0		
Sample ID 1509137-016ADUP	SampType: DUP			Units: mg/l	Kg-dry	Prep Da	te: 9/11/2	015	RunNo: 24	B29	
Client ID: BATCH	Batch ID: 11814					Analysis Da	te: 9/11/2	015	SeqNo: 46	8128	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel (Fuel Oil)	2,840	19.8						2,774	2.44	30	Е
Heavy Oil	ND	49.4						0		30	
Surr: 2-Fluorobiphenyl	23.9		19.77		121	50	150		0		
Surr: o-Terphenyl	21.0		19.77		106	50	150		0		





Project:

QC SUMMARY REPORT

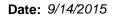
CLIENT: PBS Engineering & Environmental Pike Place PDA

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID 1509137-016ADUP SampType: **DUP** Units: mg/Kg-dry Prep Date: 9/11/2015 RunNo: 24829

Analysis Date: 9/11/2015 SeqNo: 468128 Client ID: BATCH Batch ID: 11814

%REC LowLimit HighLimit RPD Ref Val Analyte Result RL SPK value SPK Ref Val %RPD RPDLimit Qual

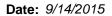




QC SUMMARY REPORT

CLIENT: PBS Engineering & Environmental

Project: Pike Place	ce PDA							Gasoline	by NWTPH-G
Sample ID LCS-11821	SampType: LCS			Units: mg/Kg		Prep Date	9/11/2015	RunNo: 248 4	10
Client ID: LCSS	Batch ID: 11821					Analysis Date	e: 9/11/2015	SeqNo: 4680	98
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPD Re	f Val %RPD	RPDLimit Qual
Gasoline	24.3	5.00	25.00	0	97.1	65	135		
Surr: Toluene-d8	1.29		1.250		103	65	135		
Surr: 4-Bromofluorobenzene	1.18		1.250		94.4	65	135		
Sample ID MB-11821	SampType: MBLK			Units: mg/Kg		Prep Date	e: 9/11/2015	RunNo: 248 4	10
Client ID: MBLKS	Batch ID: 11821					Analysis Date	e: 9/11/2015	SeqNo: 4680	99
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPD Re	f Val %RPD	RPDLimit Qual
Gasoline	ND	5.00							
Surr: Toluene-d8	1.29		1.250		104	65	135		
Surr: 4-Bromofluorobenzene	1.15		1.250		92.1	65	135		
Sample ID 1509150-001BDUP	SampType: DUP			Units: mg/Kg-	dry	Prep Date	e: 9/11/2015	RunNo: 248 4	10
Client ID: DT-N-3.0	Batch ID: 11821					Analysis Date	e: 9/11/2015	SeqNo: 4680	91
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPD Re	f Val %RPD	RPDLimit Qual
Gasoline	ND	4.35						0	30
Surr: Toluene-d8	1.09		1.088		100	65	135	0	
Surr: 4-Bromofluorobenzene	1.07		1.088		98.0	65	135	0	



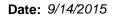


QC SUMMARY REPORT

CLIENT: PBS Engineering & Environmental

Volatile Organic Compounds by EPA Method 826

Project: Pike Place P	DA					VOIALII	e Organ	ic Compou	ilus by EP	~ INICUIO	u 020
Sample ID LCS-11821	SampType: LCS			Units: mg/Kg		Prep Dat	te: 9/11/2 0	15	RunNo: 248	339	
Client ID: LCSS	Batch ID: 11821					Analysis Da	te: 9/11/2 0	15	SeqNo: 468	3087	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.963	0.0200	1.000	0	96.3	64.3	133				
Toluene	0.862	0.0200	1.000	0	86.2	67.3	138				
Ethylbenzene	0.963	0.0300	1.000	0	96.3	74	129				
m,p-Xylene	1.89	0.0200	2.000	0	94.5	79.8	128				
o-Xylene	0.948	0.0200	1.000	0	94.8	72.7	124				
Surr: Dibromofluoromethane	1.34		1.250		107	56.5	129				
Surr: Toluene-d8	1.18		1.250		94.5	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.17		1.250		93.3	63.1	141				
Sample ID MB-11821	SampType: MBLK			Units: mg/Kg		Prep Dat	te: 9/11/2 0	15	RunNo: 248	339	
Client ID: MBLKS	Batch ID: 11821					Analysis Da	te: 9/11/2 0	15	SeqNo: 468	8088	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.0200									
Toluene	ND	0.0200									
Ethylbenzene	ND	0.0300									
m,p-Xylene	ND	0.0200									
o-Xylene	ND	0.0200									
Surr: Dibromofluoromethane	1.31		1.250		105	56.5	129				
Surr: Toluene-d8	1.18		1.250		94.2	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.12		1.250		89.8	63.1	141				
Sample ID 1509150-001BDUP	SampType: DUP			Units: mg/Kg-	dry	Prep Dat	te: 9/11/20	15	RunNo: 24 8	339	
Client ID: DT-N-3.0	Batch ID: 11821					Analysis Da	te: 9/11/2 0	15	SeqNo: 468	3079	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.0174						0		30	
Toluene	ND	0.0174						0		30	
Ethylbenzene	ND	0.0261						0		30	
m,p-Xylene	ND	0.0174						0		30	





QC SUMMARY REPORT

CLIENT: PBS Engineering & Environmental

Volatile Organic Compounds by EPA Method 8260

Project: Pike Place F	PDA				Volatile	Organic Co	ompour	nds by EF	PA Method	d 8260
Sample ID 1509150-001BDUP	SampType: DUP			Units: mg/Kg-dry	Prep Date	9/11/2015		RunNo: 24	839	
Client ID: DT-N-3.0	Batch ID: 11821				Analysis Date	9/11/2015		SeqNo: 46	8079	
Analyte	Result	RL	SPK value	SPK Ref Val %RE	C LowLimit	HighLimit RPD	Ref Val	%RPD	RPDLimit	Qual
o-Xylene	ND	0.0174					0		30	
Surr: Dibromofluoromethane	1.05		1.088	97.	0 56.5	129		0		
Surr: Toluene-d8	1.05		1.088	96.	8 64.3	131		0		
Surr: 1-Bromo-4-fluorobenzene	1.04		1.088	95.	6 63.1	141		0		
Sample ID 1509150-002BMS	SampType: MS			Units: mg/Kg-dry	Prep Date	9/11/2015		RunNo: 24	839	
Client ID: DT-S-3.0	Batch ID: 11821				Analysis Date	9/11/2015		SeqNo: 46	8081	

				· · · · · · · · · · · · · · · · · · ·							
Client ID: DT-S-3.0	Batch ID: 11821					Analysis Da	te: 9/11/2 0	15	SeqNo: 468	8081	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.703	0.0133	0.6636	0	106	63.5	133				
Toluene	0.642	0.0133	0.6636	0.001895	96.4	63.4	132				
Ethylbenzene	0.701	0.0199	0.6636	0.001782	105	54.5	134				
m,p-Xylene	1.39	0.0133	1.327	0.007827	104	53.1	132				
o-Xylene	0.698	0.0133	0.6636	0.002455	105	53.3	139				
Surr: Dibromofluoromethane	0.861		0.8295		104	56.5	129				
Surr: Toluene-d8	0.801		0.8295		96.5	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	0.812		0.8295		97.9	63.1	141				

Date: 9/14/2015



Work Order: 1509150

Project:

QC SUMMARY REPORT

CLIENT: PBS Engineering & Environmental Pike Place PDA

Sample Moisture (Percent Moisture)

Sample ID 1509137-015ADUP	SampType: DUP	Units: wt%	Prep Date: 9/11/2015	RunNo: 24826
---------------------------	----------------------	------------	----------------------	---------------------

Analysis Date: 9/11/2015 Client ID: BATCH Batch ID: **R24826** SeqNo: 467719

%REC LowLimit HighLimit RPD Ref Val Analyte Result RL SPK value SPK Ref Val %RPD RPDLimit Qual Percent Moisture 7.09 0.500 8.588 19.2 20

Sample ID 1509148-001ADUP	SampType: DUP			Units: wt%	Prep Date: 9/11/2015 RunNo: 24826	
Client ID: BATCH	Batch ID: R24826				Analysis Date: 9/11/2015 SeqNo: 467729	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit C	Qual
Daniel Maiatona	54.0	0.500			40.00	



Sample Log-In Check List

С	lient Name:	PBS		Work Order N	umber: 1509150)	
Lo	ogged by:	Clare Griggs		Date Received	d: 9/11/20	15 3:39:00 PM	
Cha	in of Custo	<u>ody</u>					
1.	Is Chain of C	ustody complete?		Yes 🗹	No 🗌	Not Present	
2.	How was the	sample delivered?		<u>Client</u>			
Log	ıIn						
	Coolers are p	resent?		Yes 🗸	No 🗆	na 🗆	
4.	Shipping con	ainer/cooler in good conditi	on?	Yes 🗹	No 🗌		
5.		s present on shipping conta ments for Custody Seals n		Yes	No 🗌	Not Required 🗹	
6.	Was an atten	npt made to cool the sample	es?	Yes 🗸	No 🗌	NA 🗆	
7.	Were all item	s received at a temperature	of >0°C to 10.0°C*	Yes 🗹	No 🗌	NA 🗆	
8.	Sample(s) in	proper container(s)?		Yes 🗹	No 🗌		
9.	Sufficient sar	nple volume for indicated te	est(s)?	Yes 🗹	No 🗌		
10.	Are samples	properly preserved?		Yes 🗹	No 🗌		
11.	Was preserva	ative added to bottles?		Yes	No 🗹	NA 🗌	
12.	Is there head	space in the VOA vials?		Yes	No 🗆	NA 🗹	
13.	Did all sample	es containers arrive in good	condition(unbroken)?	Yes 🗹	No 🗆		
14.	Does paperw	ork match bottle labels?		Yes 🗸	No 🗌		
15.	Are matrices	correctly identified on Chair	n of Custody?	Yes 🗹	No 🗌		
16.	Is it clear wha	t analyses were requested	?	Yes 🗹	No 📙		
17.	Were all hold	ing times able to be met?		Yes 🗹	No 📙		
Spe	cial Handl	ing (if applicable)					
18.	Was client no	tified of all discrepancies w	ith this order?	Yes	No 🗌	NA 🗹	_
	Person	Notified:	Da	te			
	By Who	m:	Via	ı: eMail	Phone Fax	☐ In Person	
	Regardi	ng:					
	Client In	structions:					
19	Additional rer	narks:					_
	Information						

Item #	Temp ⁰C
Cooler	8.4
Sample	6.2

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

	Relinguished	Relinquisped.	Sample Disposal:	***Anions (Circle): Nitrate	Metals Analysis (Circle):	10	10	96	7	6	S DI B-	OT - X	4 M-E-	5 - M - S -	DT - N	Sample Name	*Matrix Codes: A = Air, AQ = A	Tel:	City, Slate, Zip	Address		3600 Fremont Ave N. Seattle, WA 98103	
	Date/Time	Date/Time	Return to Client	Nitrite	MICA-S BG						7.0	300	300	3.0	300		AQ = Aqueous, B = Bulk,		CATTLE, WA	路台	No Carlo	Tel: 206-352-3790 Fax: 206-352-7178	emo
				Chloride	RCFIA-8 P	je)					11/6	1/8	9/11	9/11	1/16	Sample	G- other,		A 98100	ake		152-3790 352-7178	nont
	1	12015 1530	A Dispos	Sulfate	Priority Pollutants						1503	四元	1448	1435	1425	Sample Time	er, P = Product,	Fax:	B	Ç			
-	-	30	Disposal by Lab (A ine	æ Bromide	tants TAL						U	U	N	V	V	Sample Type (Matrix)*	duct, 5 = Soil,			2	77		
× (Received	Redivi	Na Para		L Individual:						×	×	×	×	×	TO TOTAL STATE OF THE STATE OF	, SD = Sediment,			WING CONT. STOJES	T WOW T	Date:	
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		1	are retained after	Fluoride	8 8						×	×	×	×	×		Ma, W - Water,	Emails	Reports	Location:	Project Name:	05	
5		. [1]	John OF		Be Ca Cd											13/8/8/8/	201		Reports To (PM):	2 2	Name:		
	Date/Time	Salatime		Nitrate+Nitrite	00 00 00					t							DW = Drinking Water.	Au	1	ON	YIKE HIKE	Page	Laboratory Project
			on the fol	Turn-arou	Fe Hg K					F	F					18 18 8	18	3	Andrea McIVEY	- 5	4 170 E		ry Project N
	8	5	on the following business day.	furn-around times for samples	Mg Mr M												around Wat	MCIVEN	Mely	Western Aver	6 FDA		No finternal):
-	+	0	ess day.	samples	N EN O					-							or, win as	9 CG	R	Ale		9	-
volesse continues with the late in advance.	TAT	19 H	Results	Special Remarks:	ME MY NO NA NI PE SE SE SE SE TI TI											8	= Stround Water, Wik = Waste Water, SW = Strom Water	meiveral besenv. com		TIME TO SEL			AISO Cus
valence containing with the lab in advance	POPPAGE TON TON ST	/H/aol5	Results by 10:00A	-	12 A A LL IL											Comments/Depth	m Water			TOWN THE PROPERTY	DEPLEMENT OF		Chain of Custody Record

U	S	Т	#2

SEPTEMBER 28, 2015 - SITE ASSESSMENT LABORATORY REPORT SEPTEMBER 30, 2015 - DELINEATION SOIL SAMPLING LABORATORY REPORT OCTOBER 14, 2015 - CONFIRMATION SOIL SAMPLING NOVEMBER 24, 2015 - FINAL GRADE CONFIRMATION SOIL SAMPLING



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

PBS Engineering & Environmental

Audrey McIvor 2517 Eastlake Ave, E #100 Seattle, WA 98102

RE: Pike Place PDA Lab ID: 1509387

October 06, 2015

Attention Audrey McIvor:

Fremont Analytical, Inc. received 6 sample(s) on 9/28/2015 for the analyses presented in the following report.

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Gasoline by NWTPH-Gx

Metals (SW6020) with TCLP Extraction (EPA 1311)

Sample Moisture (Percent Moisture)

Total Metals by EPA Method 6020

Volatile Organic Compounds by EPA Method 8260

Volatile Organic Compounds by SW8260/TCLP ZHE

This report consists of the following:

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

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

Thank you for using Fremont Analytical.

Sincerely,

Chelsea Ward Project Manager

Date: 10/06/2015



CLIENT: PBS Engineering & Environmental Work Order Sample Summary

Project: Pike Place PDA

Lab Order: 1509387

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1509387-001	DT2-N-3	09/28/2015 4:08 PM	09/28/2015 5:16 PM
1509387-002	DT2-S-3	09/28/2015 4:29 PM	09/28/2015 5:16 PM
1509387-003	DT2-E-3	09/28/2015 4:14 PM	09/28/2015 5:16 PM
1509387-004	DT2-W-3	09/28/2015 4:20 PM	09/28/2015 5:16 PM
1509387-005	DT2-B-7	09/28/2015 4:39 PM	09/28/2015 5:16 PM
1509387-006	Trip Blank		09/28/2015 5:16 PM



Case Narrative

WO#: **1509387**Date: **10/6/2015**

CLIENT: PBS Engineering & Environmental

Project: Pike Place PDA

I. SAMPLE RECEIPT:

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

II. GENERAL REPORTING COMMENTS:

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

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

III. ANALYSES AND EXCEPTIONS:

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



Qualifiers & Acronyms

WO#: **1509387**

Date Reported: 10/6/2015

Qualifiers:

- * Flagged value is not within established control limits
- B Analyte detected in the associated Method Blank
- D Dilution was required
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- I Analyte with an internal standard that does not meet established acceptance criteria
- J Analyte detected below LOQ
- N Tentatively Identified Compound (TIC)
- Q Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S Spike recovery outside accepted recovery limits
- ND Not detected at the Reporting Limit

Acronyms:

%Rec - Percent Recovery

CCB - Continued Calibration Blank

CCV - Continued Calibration Verification

DF - Dilution Factor

HEM - Hexane Extractable Material

ICV - Initial Calibration Verification

LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate

MB or MBLANK - Method Blank

MDL - Method Detection Limit

MS/MSD - Matrix Spike / Matrix Spike Duplicate

PDS - Post Digestion Spike

Ref Val - Reference Value

RL - Reporting Limit

RPD - Relative Percent Difference

SD - Serial Dilution

SGT - Silica Gel Treatment

SPK - Spike

Surr - Surrogate



WO#: **1509387**

Date Reported: 10/6/2015

Client: PBS Engineering & Environmental Collection Date: 9/28/2015 4:08:00 PM

Project: Pike Place PDA

Lab ID: 1509387-001 **Matrix:** Soil

Client Sample ID: DT2-N-3

Analyses	Result	RL	Qual	Units	DF	- Da	ate Analyzed	
Diesel and Heavy Oil by NWTPH-	Dx/Dx Ext.			Batch	ID:	11981	Analyst: AK	
Diesel (Fuel Oil)	ND	22.4		mg/Kg-dry	1	9/29)/2015 1:24:00 PM	
Heavy Oil	ND	55.9		mg/Kg-dry	1	9/29)/2015 1:24:00 PM	
Surr: 2-Fluorobiphenyl	106	50-150		%REC	1	9/29	/2015 1:24:00 PM	
Surr: o-Terphenyl	111	50-150		%REC	1	9/29	0/2015 1:24:00 PM	
Gasoline by NWTPH-Gx				Batch	ID:	11979	Analyst: EM	
Gasoline	ND	3.59		mg/Kg-dry	1	9/29)/2015 1:15:00 PM	
Surr: 4-Bromofluorobenzene	105	65-135		%REC	1	9/29	/2015 1:15:00 PM	
Surr: Toluene-d8	97.8	65-135		%REC	1	9/29)/2015 1:15:00 PM	
Volatile Organic Compounds by	EPA Method	<u>8260</u>		Batch	ID:	11979	Analyst: EM	
Benzene	ND	0.0144		mg/Kg-dry	1	9/29)/2015 1:15:00 PM	
Toluene	ND	0.0144		mg/Kg-dry	1	9/29	/2015 1:15:00 PM	
Ethylbenzene	ND	0.0215		mg/Kg-dry	1	9/29	/2015 1:15:00 PM	
m,p-Xylene	ND	0.0144		mg/Kg-dry	1	9/29	/2015 1:15:00 PM	
o-Xylene	ND	0.0144		mg/Kg-dry	1	9/29	/2015 1:15:00 PM	
Surr: Dibromofluoromethane	94.2	56.5-129		%REC	1	9/29)/2015 1:15:00 PM	
Surr: Toluene-d8	98.9	64.3-131		%REC	1	9/29)/2015 1:15:00 PM	
Surr: 1-Bromo-4-fluorobenzene	101	63.1-141		%REC	1	9/29)/2015 1:15:00 PM	
Total Metals by EPA Method 602	<u>0</u>			Batch	ID:	11982	Analyst: TN	
Lead	3.79	0.190		mg/Kg-dry	1	9/29)/2015 4:14:19 PM	
Sample Moisture (Percent Moistu	<u>ure)</u>			Batch	ID:	R25168	Analyst: CG	
Percent Moisture	18.5	0.500		wt%	1	9/29)/2015 8:14:07 AM	



WO#: **1509387**Date Reported: **10/6/2015**

Client: PBS Engineering & Environmental Collection Date: 9/28/2015 4:29:00 PM

Project: Pike Place PDA

Lab ID: 1509387-002 **Matrix:** Soil

Client Sample ID: DT2-S-3

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Diesel and Heavy Oil by NWTPH-D	x/Dx Ext.			Batch	1D: 1	1981 Analyst: AK
Diesel (Fuel Oil)	ND	24.9		mg/Kg-dry	1	9/29/2015 2:29:00 PM
Heavy Oil	ND	62.3		mg/Kg-dry	1	9/29/2015 2:29:00 PM
Surr: 2-Fluorobiphenyl	116	50-150		%REC	1	9/29/2015 2:29:00 PM
Surr: o-Terphenyl	122	50-150		%REC	1	9/29/2015 2:29:00 PM
Gasoline by NWTPH-Gx				Batch	1D: 1	1979 Analyst: EM
Gasoline	2,890	211	D	mg/Kg-dry	50	9/30/2015 6:06:00 AM
Surr: 4-Bromofluorobenzene	101	65-135	D	%REC	50	9/30/2015 6:06:00 AM
Surr: Toluene-d8	100	65-135	D	%REC	50	9/30/2015 6:06:00 AM
Volatile Organic Compounds by E	PA Method	<u>8260</u>		Batch	1D: 1	1979 Analyst: EM
Benzene	7.05	0.842	D	mg/Kg-dry	50	9/30/2015 6:06:00 AM
Toluene	51.4	0.842	D	mg/Kg-dry	50	9/30/2015 6:06:00 AM
Ethylbenzene	20.2	1.26	D	mg/Kg-dry	50	9/30/2015 6:06:00 AM
m,p-Xylene	80.6	0.842	D	mg/Kg-dry	50	9/30/2015 6:06:00 AM
o-Xylene	34.0	0.842	D	mg/Kg-dry	50	9/30/2015 6:06:00 AM
Surr: Dibromofluoromethane	102	56.5-129		%REC	1	9/29/2015 2:42:00 PM
Surr: Toluene-d8	95.5	64.3-131	D	%REC	50	9/30/2015 6:06:00 AM
Surr: 1-Bromo-4-fluorobenzene	99.2	63.1-141	D	%REC	50	9/30/2015 6:06:00 AM
Total Metals by EPA Method 6020				Batch	1D: 1	1982 Analyst: TN
Lead	4.85	0.199		mg/Kg-dry	1	9/29/2015 4:17:51 PM
Sample Moisture (Percent Moistur	<u>e)</u>			Batch	ID: R	25168 Analyst: CG
Percent Moisture	25.1	0.500		wt%	1	9/29/2015 8:14:07 AM



WO#: **1509387**Date Reported: **10/6/2015**

Client: PBS Engineering & Environmental Collection Date: 9/28/2015 4:14:00 PM

Project: Pike Place PDA

Lab ID: 1509387-003 **Matrix:** Soil

Client Sample ID: DT2-E-3

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	
Diesel and Heavy Oil by NWTPH-D	x/Dx Ext.			Batch	ı ID:	11981 Analyst: AK	
Diesel (Fuel Oil)	ND	26.5		mg/Kg-dry	1	9/29/2015 3:02:00 PM	
Heavy Oil	ND	66.3		mg/Kg-dry	1	9/29/2015 3:02:00 PM	
Surr: 2-Fluorobiphenyl	96.1	50-150		%REC	1	9/29/2015 3:02:00 PM	
Surr: o-Terphenyl	100	50-150		%REC	1	9/29/2015 3:02:00 PM	
Gasoline by NWTPH-Gx				Batch	ı ID:	11979 Analyst: EM	
Gasoline	3,300	257	D	mg/Kg-dry	50	9/30/2015 6:35:00 AM	
Surr: 4-Bromofluorobenzene	101	65-135	D	%REC	50	9/30/2015 6:35:00 AM	
Surr: Toluene-d8	101	65-135	D	%REC	50	9/30/2015 6:35:00 AM	
Volatile Organic Compounds by El	PA Method	<u>8260</u>		Batch	ı ID:	11979 Analyst: EM	
Methyl tert-butyl ether (MTBE)	ND	0.0514		mg/Kg-dry	1	9/29/2015 3:10:00 PM	
1,2-Dichloroethane (EDC)	2.42	0.0308		mg/Kg-dry	1	9/29/2015 3:10:00 PM	
Benzene	11.4	1.03	D	mg/Kg-dry	50	9/30/2015 6:35:00 AM	
Toluene	50.8	1.03	D	mg/Kg-dry	50	9/30/2015 6:35:00 AM	
1,2-Dibromoethane (EDB)	ND	0.00514		mg/Kg-dry	1	9/29/2015 3:10:00 PM	
Ethylbenzene	17.9	1.54	D	mg/Kg-dry	50	9/30/2015 6:35:00 AM	
m,p-Xylene	72.6	1.03	D	mg/Kg-dry	50	9/30/2015 6:35:00 AM	
o-Xylene	30.1	1.03	D	mg/Kg-dry	50	9/30/2015 6:35:00 AM	
Naphthalene	18.4	1.54	D	mg/Kg-dry	50	9/30/2015 6:35:00 AM	
Surr: Dibromofluoromethane	98.0	56.5-129		%REC	1	9/29/2015 3:10:00 PM	
Surr: Toluene-d8	96.6	64.3-131	D	%REC	50	9/30/2015 6:35:00 AM	
Surr: 1-Bromo-4-fluorobenzene	99.3	63.1-141	D	%REC	50	9/30/2015 6:35:00 AM	
Volatile Organic Compounds by SV	W8260/TCL	P ZHE		Batch	ı ID:	12030 Analyst: EM	
Benzene	2.23	1.00		μg/L	1	10/5/2015 11:36:00 AM	
Surr: 4-Bromofluorobenzene	99.4	83.5-119		%REC	1	10/5/2015 11:36:00 AM	
Surr: Dibromofluoromethane	103	80.3-123		%REC	1	10/5/2015 11:36:00 AM	
Surr: Toluene-d8	102	67.3-147		%REC	1	10/5/2015 11:36:00 AM	
Total Metals by EPA Method 6020				Batch	ı ID:	11982 Analyst: TN	
Lead	9.05	0.215		mg/Kg-dry	1	9/29/2015 4:21:22 PM	



WO#: **1509387**

Date Reported: 10/6/2015

Client: PBS Engineering & Environmental Collection Date: 9/28/2015 4:14:00 PM

Project: Pike Place PDA

Lab ID: 1509387-003 **Matrix:** Soil

Client Sample ID: DT2-E-3

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Metals (SW6020) with TCLP Extra	action (EPA 13 ⁻	<u>l1)</u>		Batcl	n ID: 12(012 Analyst: TN
Lead	ND	0.200		mg/L	1	10/1/2015 1:47:18 PM
Sample Moisture (Percent Moist	ure)			Batcl	n ID: R2	5168 Analyst: CG
Percent Moisture	25.6	0.500		wt%	1	9/29/2015 8:14:07 AM



WO#: **1509387**

Date Reported: 10/6/2015

Client: PBS Engineering & Environmental Collection Date: 9/28/2015 4:20:00 PM

Project: Pike Place PDA

Lab ID: 1509387-004 **Matrix:** Soil

Client Sample ID: DT2-W-3

Analyses	Result	RL	Qual	Units	DF	- D	Date Analyzed		
Diesel and Heavy Oil by NWTPH	-Dx/Dx Ext.			Batch	ı ID:	11981	Analyst: AK		
Diesel (Fuel Oil)	ND	23.4		mg/Kg-dry	1	9/29	9/2015 3:35:00 PM		
Heavy Oil	ND	58.6		mg/Kg-dry	1	9/29	9/2015 3:35:00 PM		
Surr: 2-Fluorobiphenyl	98.4	50-150		%REC	1	9/29	9/2015 3:35:00 PM		
Surr: o-Terphenyl	105	50-150		%REC	1	9/29	9/2015 3:35:00 PM		
Gasoline by NWTPH-Gx				Batch	ID:	11979	Analyst: EM		
Gasoline	11.4	4.57		mg/Kg-dry	1	9/29	9/2015 2:13:00 PM		
Surr: 4-Bromofluorobenzene	106	65-135		%REC	1	9/29	9/2015 2:13:00 PM		
Surr: Toluene-d8	98.0	65-135		%REC	1	9/29	9/2015 2:13:00 PM		
Volatile Organic Compounds by	EPA Method	<u>8260</u>		Batch	ID:	11979	Analyst: EM		
Benzene	0.0911	0.0183		mg/Kg-dry	1	9/29	9/2015 2:13:00 PM		
Toluene	0.268	0.0183		mg/Kg-dry	1	9/29	9/2015 2:13:00 PM		
Ethylbenzene	0.0663	0.0274		mg/Kg-dry	1	9/29	9/2015 2:13:00 PM		
m,p-Xylene	0.270	0.0183		mg/Kg-dry	1	9/29	9/2015 2:13:00 PM		
o-Xylene	0.103	0.0183		mg/Kg-dry	1	9/29	9/2015 2:13:00 PM		
Surr: Dibromofluoromethane	94.6	56.5-129		%REC	1	9/29	9/2015 2:13:00 PM		
Surr: Toluene-d8	99.9	64.3-131		%REC	1	9/29	9/2015 2:13:00 PM		
Surr: 1-Bromo-4-fluorobenzene	101	63.1-141		%REC	1	9/29	9/2015 2:13:00 PM		
Total Metals by EPA Method 602	<u>:0</u>			Batch	ID:	11982	Analyst: TN		
Lead	5.99	0.191		mg/Kg-dry	1	9/29	9/2015 4:24:53 PM		
Sample Moisture (Percent Moist	ure)			Batch	ID:	R25168	Analyst: CG		
Percent Moisture	22.2	0.500		wt%	1	9/29	9/2015 8:14:07 AM		



WO#: **1509387**

Date Reported: 10/6/2015

Client: PBS Engineering & Environmental Collection Date: 9/28/2015 4:39:00 PM

Project: Pike Place PDA

Lab ID: 1509387-005 **Matrix:** Soil

Client Sample ID: DT2-B-7

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Diesel and Heavy Oil by NWTPH-D	0x/Dx Ext.			Batch	ID:	11981 Analyst: AK
Diesel (Fuel Oil)	ND	25.5		mg/Kg-dry	1	9/29/2015 4:08:00 PM
Heavy Oil	ND	63.6		mg/Kg-dry	1	9/29/2015 4:08:00 PM
Surr: 2-Fluorobiphenyl	101	50-150		%REC	1	9/29/2015 4:08:00 PM
Surr: o-Terphenyl	107	50-150		%REC	1	9/29/2015 4:08:00 PM
Gasoline by NWTPH-Gx				Batch	ID:	11979 Analyst: EM
Gasoline	357	48.6	D	mg/Kg-dry	10	9/30/2015 5:38:00 AM
Surr: 4-Bromofluorobenzene	121	65-135		%REC	1	9/29/2015 3:39:00 PM
Surr: Toluene-d8	103	65-135		%REC	1	9/29/2015 3:39:00 PM
Volatile Organic Compounds by E	PA Method	<u>8260</u>		Batch	ID:	11979 Analyst: EM
Benzene	0.540	0.0194		mg/Kg-dry	1	9/29/2015 3:39:00 PM
Toluene	3.49	0.0194	Е	mg/Kg-dry	1	9/29/2015 3:39:00 PM
Ethylbenzene	1.50	0.0292		mg/Kg-dry	1	9/29/2015 3:39:00 PM
m,p-Xylene	6.23	0.0194	Е	mg/Kg-dry	1	9/29/2015 3:39:00 PM
o-Xylene	2.52	0.0194	Е	mg/Kg-dry	1	9/29/2015 3:39:00 PM
Surr: Dibromofluoromethane	96.6	56.5-129		%REC	1	9/29/2015 3:39:00 PM
Surr: Toluene-d8	109	64.3-131		%REC	1	9/29/2015 3:39:00 PM
Surr: 1-Bromo-4-fluorobenzene	103	63.1-141		%REC	1	9/29/2015 3:39:00 PM
Total Metals by EPA Method 6020				Batch	ID:	11982 Analyst: TN
Lead	19.1	0.204		mg/Kg-dry	1	9/29/2015 4:28:24 PM
Sample Moisture (Percent Moisture	re)			Batch	ID:	R25168 Analyst: CG
Percent Moisture	25.9	0.500		wt%	1	9/29/2015 8:14:07 AM

Date: 10/6/2015



Work Order: 1509387

Project:

Lead

QC SUMMARY REPORT

CLIENT: PBS Engineering & Environmental Pike Place PDA

ND

0.200

Total Metals by EPA Method 6020

Sample ID MB-11982	SampType: MBLK		Uı	nits: mg/Kg	Prep Date	e: 9/29/2015	RunNo: 251	90	
Client ID: MBLKS	Batch ID: 11982				Analysis Date	e: 9/29/2015	SeqNo: 474	985	
Analyte	Result	RL	SPK value SPK R	ef Val %REC	LowLimit	HighLimit RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID LCS-11982	SampType: LCS			Units: mg/Kg		Prep Dat	te: 9/29/20	15	RunNo: 25	190	
Client ID: LCSS	Batch ID: 11982					Analysis Da	te: 9/29/20	15	SeqNo: 474	4986	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	23.9	0.200	25.00	0	95.7	80	120				

Sample ID 1509353-001ADUP	SampType: DUP			Units: mg/	Kg-dry	Prep Da	te: 9/29/2 0)15	RunNo: 25 ′	190	
Client ID: BATCH	Batch ID: 11982					Analysis Da	te: 9/29/2 0)15	SeqNo: 474	1988	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	95.3	0.217						88.44	7.48	20	

Sample ID 1509353-001AMS	SampType: MS			Units: mg/	/Kg-dry	Prep Dat	te: 9/29/20	15	RunNo: 25	190	
Client ID: BATCH	Batch ID: 11982					Analysis Da	te: 9/29/20	15	SeqNo: 474	1990	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	131	0.217	27.11	88.44	158	75	125				S

NOTES:

S - Outlying spike recoveries observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

Sample ID 1509353-001AMSD	SampType: MSD			Units: mg	/Kg-dry	Prep Da	te: 9/29/2 0	015	RunNo: 25 1	190	
Client ID: BATCH	Batch ID: 11982					Analysis Da	ite: 9/29/20	015	SeqNo: 474	1991	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	162	0.217	27.11	88.44	271	75	125	131.1	21.0	20	RS

NOTES:

SR - Outlying spike recoveries and high RPD due to suspected sample inhomogeneity. The method is in control as indicated by the LCS.





QC SUMMARY REPORT

CLIENT: PBS Engineering & Environmental Pike Place PDA

Total Metals by EPA Method 6020

Sample ID 1509353-001APDS	SampType: PDS			Units: mg/	Kg-dry	Prep Da	te: 9/29/20	15	RunNo: 25	190	
Client ID: BATCH	Batch ID: 11982					Analysis Da	te: 9/29/20	15	SeqNo: 474	4992	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	135	0.219	27.3	88.4	171	80	120				S

NOTES:

Project:

S - Outlying spike recovery observed for Pb.

Date: 10/6/2015



Work Order: 1509387

QC SUMMARY REPORT

CLIENT: PBS Engineering & Environmental

Project: Pike Place	PDA	ai			Metals (SW6020) with TCLP Extraction (EPA 1311)
Sample ID MB-11992FB	SampType: MBLK			Units: mg/L	Prep Date: 10/1/2015 RunNo: 25244
Client ID: MBLKS	Batch ID: 12012				Analysis Date: 10/1/2015 SeqNo: 476020
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead	ND	0.200			
Sample ID MB-12012	SampType: MBLK			Units: mg/L	Prep Date: 10/1/2015 RunNo: 25244
Client ID: MBLKS	Batch ID: 12012				Analysis Date: 10/1/2015 SeqNo: 476021
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead	ND	0.200			
Sample ID LCS-12012	SampType: LCS			Units: mg/L	Prep Date: 10/1/2015 RunNo: 25244
Client ID: LCSS	Batch ID: 12012				Analysis Date: 10/1/2015 SeqNo: 476022
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead	2.44	0.200	2.500	0	97.5 65 135
Sample ID 1509387-003ADUP	SampType: DUP			Units: mg/L	Prep Date: 10/1/2015 RunNo: 25244
Client ID: DT2-E-3	Batch ID: 12012				Analysis Date: 10/1/2015 SeqNo: 476024
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead	ND	0.200			0 30
Sample ID 1509387-003AMS	SampType: MS			Units: mg/L	Prep Date: 10/1/2015 RunNo: 25244
Client ID: DT2-E-3	Batch ID: 12012				Analysis Date: 10/1/2015 SeqNo: 476025
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead	2.41	0.200	2.500	0	96.3 65 135





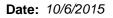
Project:

QC SUMMARY REPORT

CLIENT: PBS Engineering & Environmental Pike Place PDA

Metals (SW6020) with TCLP Extraction (EPA 1311)

Sample ID	1509387-003AMSD	SampType: MSD			Units: mg/L		Prep Dat	te: 10/1/20	15	RunNo: 252	244	
Client ID:	DT2-E-3	Batch ID: 12012					Analysis Da	te: 10/1/20	15	SeqNo: 476	6026	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		2.40	0.200	2.500	0	96.0	65	135	2.407	0.248	30	

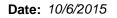




QC SUMMARY REPORT

CLIENT: PBS Engineering & Environmental

Project: Pike Place	PDA					1	Diesel a	and Heavy	Oil by NW	TPH-Dx/I	Ox Ext
Sample ID MB-11981	SampType: MBLK			Units: mg/K	g	Prep Date	e: 9/29/20)15	RunNo: 25	192	
Client ID: MBLKS	Batch ID: 11981					Analysis Date	e: 9/29/20)15	SeqNo: 47	5021	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel (Fuel Oil)	ND	20.0									
Heavy Oil	ND	50.0									
Surr: 2-Fluorobiphenyl	20.0		20.00		100	50	150				
Surr: o-Terphenyl	20.9		20.00		104	50	150				
Sample ID LCS-11981	SampType: LCS			Units: mg/K	g	Prep Date	e: 9/29/20)15	RunNo: 25	192	
Client ID: LCSS	Batch ID: 11981					Analysis Date	e: 9/29/20)15	SeqNo: 47	5020	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel (Fuel Oil)	543	20.0	500.0	0	109	65	135				
Surr: 2-Fluorobiphenyl	21.3		20.00		106	50	150				
Surr: o-Terphenyl	20.9		20.00		104	50	150				
Sample ID 1509387-001ADUP	SampType: DUP			Units: mg/K	g-dry	Prep Date	e: 9/29/20)15	RunNo: 25	192	
Client ID: DT2-N-3	Batch ID: 11981					Analysis Date	e: 9/29/2 0)15	SeqNo: 47	5014	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel (Fuel Oil)	ND	23.3						0		30	
Heavy Oil	ND	58.2						0		30	
Surr: 2-Fluorobiphenyl	22.4		23.27		96.4	50	150		0		
Surr: o-Terphenyl	23.5		23.27		101	50	150		0		

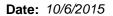




QC SUMMARY REPORT

CLIENT: PBS Engineering & Environmental

	ace PDA								Gasoline	by NWT	PH-Gx
Sample ID LCS-11979	SampType: LCS			Units: mg/Kg		Prep Date	e: 9/29/20 1	15	RunNo: 25	194	
Client ID: LCSS	Batch ID: 11979					Analysis Date	e: 9/29/20 1	15	SeqNo: 47	5070	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	21.3	5.00	25.00	0	85.2	65	135				
Surr: Toluene-d8	1.23		1.250		98.0	65	135				
Surr: 4-Bromofluorobenzen	e 1.32		1.250		106	65	135				
Sample ID MB-11979	SampType: MBLK			Units: mg/Kg		Prep Date	e: 9/29/20 1	15	RunNo: 25	194	
Client ID: MBLKS	Batch ID: 11979					Analysis Date	e: 9/29/20 1	15	SeqNo: 47	5071	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	ND	5.00									
Surr: Toluene-d8	1.21		1.250		96.6	65	135				
Surr: 4-Bromofluorobenzen	e 1.30		1.250		104	65	135				
Sample ID 1509387-001BDU	JP SampType: DUP			Units: mg/Kg	-dry	Prep Date	e: 9/29/20 1	15	RunNo: 25	194	
Client ID: DT2-N-3	Batch ID: 11979					Analysis Date	e: 9/29/20 1	15	SeqNo: 47	5063	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	ND	3.59						0		30	
Surr: Toluene-d8	0.868		0.8976		96.7	65	135		0		
Surr: 4-Bromofluorobenzen	e 0.940		0.8976		105	65	135		0		





Project:

QC SUMMARY REPORT

CLIENT: PBS Engineering & Environmental Pike Place PDA

Volatile Organic Compounds by EPA Method 8260

Sample ID LCS-11979	SampType: LCS			Units: mg/Kg		Prep Dat	e: 9/29/2 0)15	RunNo: 25	193	
Client ID: LCSS	Batch ID: 11979					Analysis Dat	e: 9/29/2 0	015	SeqNo: 47	5058	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.907	0.0500	1.000	0	90.7	59.1	138				
1,2-Dichloroethane (EDC)	0.999	0.0300	1.000	0	99.9	61.9	136				
Benzene	1.00	0.0200	1.000	0	100	64.3	133				
Toluene	1.01	0.0200	1.000	0	101	67.3	138				
1,2-Dibromoethane (EDB)	1.19	0.00500	1.000	0	119	70	130				
Ethylbenzene	0.993	0.0300	1.000	0	99.3	74	129				
m,p-Xylene	1.99	0.0200	2.000	0	99.3	79.8	128				
o-Xylene	0.968	0.0200	1.000	0	96.8	72.7	124				
Naphthalene	0.966	0.0300	1.000	0	96.6	62.3	134				
Surr: Dibromofluoromethane	1.31		1.250		104	56.5	129				
Surr: Toluene-d8	1.24		1.250		99.1	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.29		1.250		103	63.1	141				
NOTES:											

NOTES:

S - Outlying spike recovery observed (2,2-Dichloropropane; high bias). There were no detections of this analyte in the following samples. No further action is required.

Sample ID MB-11979	SampType: MBLK			Units: mg/Kg		Prep Dat	e: 9/29/2)15	RunNo: 25	193	
Client ID: MBLKS	Batch ID: 11979					Analysis Dat	e: 9/29/2	015	SeqNo: 47	5059	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.0500									
1,2-Dichloroethane (EDC)	ND	0.0300									
Benzene	ND	0.0200									
Toluene	ND	0.0200									
1,2-Dibromoethane (EDB)	ND	0.00500									
Ethylbenzene	ND	0.0300									
m,p-Xylene	ND	0.0200									
o-Xylene	ND	0.0200									
Naphthalene	ND	0.0300									
Surr: Dibromofluoromethane	1.21		1.250		97.2	56.5	129				
Surr: Toluene-d8	1.25		1.250		100	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.25		1.250		100	63.1	141				

Date: 10/6/2015



Work Order: 1509387

Project:

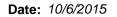
QC SUMMARY REPORT

CLIENT: PBS Engineering & Environmental Pike Place PDA

Volatile Organic Compounds by EPA Method 8260

-,											
Sample ID 1509387-001BDUP	SampType: DUP	•		Units: mg/	Kg-dry	Prep Da	te: 9/29/2 0	015	RunNo: 25	193	
Client ID: DT2-N-3	Batch ID: 11979					Analysis Da	te: 9/29/2 0	015	SeqNo: 47	5050	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.0359						0		30	
1,2-Dichloroethane (EDC)	ND	0.0215						0		30	
Benzene	ND	0.0144						0		30	
Toluene	ND	0.0144						0		30	
1,2-Dibromoethane (EDB)	ND	0.00359						0		30	
Ethylbenzene	ND	0.0215						0		30	
m,p-Xylene	ND	0.0144						0		30	
o-Xylene	ND	0.0144						0		30	
Naphthalene	ND	0.0215						0		30	
Surr: Dibromofluoromethane	0.863		0.8976		96.1	56.5	129		0		
Surr: Toluene-d8	0.892		0.8976		99.4	64.3	131		0		
Surr: 1-Bromo-4-fluorobenzene	0.906		0.8976		101	63.1	141		0		

Sample ID 1509387-005BMS	SampType: MS			Units: mg	/Kg-dry	Prep Da	te: 9/29/20	15	RunNo: 25 ′	193	
Client ID: DT2-B-7	Batch ID: 11979					Analysis Da	te: 9/29/20)15	SeqNo: 47	5055	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.965	0.0486	0.9721	0	99.3	54.4	132				
1,2-Dichloroethane (EDC)	0.998	0.0292	0.9721	0.04981	97.5	51.3	139				
Benzene	1.51	0.0194	0.9721	0.5396	99.5	63.5	133				
Toluene	4.51	0.0194	0.9721	3.490	105	63.4	132				
1,2-Dibromoethane (EDB)	1.25	0.00486	0.9721	0.01268	128	50.4	136				
Ethylbenzene	2.49	0.0292	0.9721	1.502	102	54.5	134				
m,p-Xylene	8.08	0.0194	1.944	6.227	95.5	53.1	132				Ε
o-Xylene	3.48	0.0194	0.9721	2.520	98.9	53.3	139				
Naphthalene	2.81	0.0292	0.9721	1.746	109	52.3	124				
Surr: Dibromofluoromethane	1.24		1.215		102	56.5	129				
Surr: Toluene-d8	1.32		1.215		109	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.27		1.215		105	63.1	141				
NOTES:											





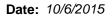
Project:

QC SUMMARY REPORT

CLIENT: PBS Engineering & Environmental Pike Place PDA

Volatile Organic Compounds by EPA Method 8260

Sample ID 1509385-001BDUP	SampType: DUP			Units: mg/Kg-dry		Prep Date: 9/29/2015			RunNo: 25193		
Client ID: BATCH	Batch ID: 11979					Analysis Da	te: 9/29/2 0	015	SeqNo: 47	5201	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.0559						0		30	
1,2-Dichloroethane (EDC)	ND	0.0335						0		30	
Benzene	ND	0.0224						0		30	
Toluene	ND	0.0224						0		30	
1,2-Dibromoethane (EDB)	ND	0.00559						0		30	
Ethylbenzene	ND	0.0335						0		30	
m,p-Xylene	ND	0.0224						0		30	
o-Xylene	ND	0.0224						0		30	
Naphthalene	ND	0.0335						0		30	
Surr: Dibromofluoromethane	1.33		1.397		95.1	56.5	129		0		
Surr: Toluene-d8	1.38		1.397		99.0	64.3	131		0		
Surr: 1-Bromo-4-fluorobenzene	1.43		1.397		102	63.1	141		0		



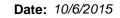


QC SUMMARY REPORT

CLIENT: PBS Engineering & Environmental

Volatile Organic Compounds by SW8260/TCLP ZHE

Project: Pike Place	e PDA					Volatile	Organic	Compoun	ds by SW	3260/TCL	P ZHE
Sample ID LCS-12030	SampType: LCS			Units: µg/L		Prep Da	te: 10/2/20	15	RunNo: 25	298	
Client ID: LCSW	Batch ID: 12030					Analysis Da	te: 10/5/20	15	SeqNo: 47	7056	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.9	1.00	20.00	0	99.6	73.9	125				
Surr: 4-Bromofluorobenzene	25.3		25.00		101	83.5	119				
Surr: Dibromofluoromethane	25.8		25.00		103	80.3	123				
Surr: Toluene-d8	25.9		25.00		104	67.3	147				
Sample ID LCSD-12030	SampType: LCSD			Units: µg/L		Prep Da	te: 10/2/20	15	RunNo: 25	298	
Client ID: LCSW02	Batch ID: 12030					Analysis Da	te: 10/5/20	15	SeqNo: 47	7057	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.9	1.00	20.00	0	99.4	73.9	125	19.92	0.201	20	
Surr: 4-Bromofluorobenzene	24.4		25.00		97.5	83.5	119		0	0	
Surr: Dibromofluoromethane	25.9		25.00		104	80.3	123		0	0	
Surr: Toluene-d8	25.4		25.00		101	67.3	147		0	0	
Sample ID MB-12030	SampType: MBLK			Units: µg/L		Prep Da	te: 10/2/20	15	RunNo: 25	298	
Client ID: MBLKW	Batch ID: 12030					Analysis Da	te: 10/5/20	15	SeqNo: 47	7058	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	1.00									
Surr: 4-Bromofluorobenzene	25.0		25.00		100	83.5	119				
Surr: Dibromofluoromethane	25.6		25.00		103	80.3	123				
Surr: Toluene-d8	25.5		25.00		102	67.3	147				
Sample ID 1509387-003AREP	SampType: REP			Units: µg/L		Prep Da	te: 10/2/20	15	RunNo: 25	298	
Client ID: DT2-E-3	Batch ID: 12030					Analysis Da	te: 10/5/20	15	SeqNo: 47	7054	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	2.42	1.00						2.700	10.9	30	
Surr: 4-Bromofluorobenzene	24.2		25.00		96.9	79.2	120		0		
Surr: Dibromofluoromethane	25.4		25.00		102	76	114		0		





Project:

Surr: Toluene-d8

QC SUMMARY REPORT

CLIENT: PBS Engineering & Environmental Pike Place PDA

25.2

Volatile Organic Compounds by SW8260/TCLP ZHE

Sample ID 1509387-003AREP	SampType: REP	Units: μg/L	Prep Date: 10/2/2015	RunNo: 25298
Client ID: DT2-E-3	Batch ID: 12030		Analysis Date: 10/5/2015	SeqNo: 477054
Analyte	Result	RL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual

101

86.8

119

25.00

Date: 10/6/2015



Work Order: 1509387

Project:

QC SUMMARY REPORT

CLIENT: PBS Engineering & Environmental Pike Place PDA

Sample Moisture (Percent Moisture)

Sample ID 1509384-001ADUP	SampType: DUP	Units: wt%	Prep Date: 9/29/2015	RunNo: 25168
---------------------------	----------------------	------------	----------------------	---------------------

Analysis Date: 9/29/2015 SeqNo: 474519 Client ID: BATCH Batch ID: **R25168**

%REC LowLimit HighLimit RPD Ref Val Analyte Result SPK value SPK Ref Val %RPD RPDLimit Qual Percent Moisture 27.3 0.500 28.32 3.77 20

Sample ID 1509385-006ADUP	SampType: DUP			Units: wt%		Prep Da	te: 9/29/2 0	015	RunNo: 25 1	68	
Client ID: BATCH	Batch ID: R25168					Analysis Da	ite: 9/29/2 0	015	SeqNo: 474	529	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
D. (M.)	40.7	0.500						44.44	40.0		



Sample Log-In Check List

С	lient Name:	PBS	Work Order Numb	per: 1509387	
Lo	ogged by:	Erica Silva	Date Received:	9/28/2015	5:16:00 PM
Cha	in of Custo	ody			
		ustody complete?	Yes 🗸	No \square	Not Present
2.	How was the	sample delivered?	Client		
<u>Log</u>	In				
	Coolers are p	present?	Yes 🗸	No \square	NA 🗆
4.	Shipping con	tainer/cooler in good condition?	Yes 🗹	No 🗌	
5.		s present on shipping container/cooler? nments for Custody Seals not intact)	Yes	No 🗌	Not Required ✓
6.	Was an atten	npt made to cool the samples?	Yes 🗸	No 🗌	NA \square
7.	Were all item	s received at a temperature of >0°C to 10.0°C*	Yes 🗹	No \square	na 🗆
8.	Sample(s) in	proper container(s)?	Yes 🗹	No 🗌	
9.	Sufficient sar	nple volume for indicated test(s)?	Yes 🗹	No 🗌	
10.	Are samples	properly preserved?	Yes 🗹	No 🗌	
11.	Was preserva	ative added to bottles?	Yes	No 🗸	NA 🗌
12.	Is there head	space in the VOA vials?	Yes	No 🗆	NA 🗹
13.	Did all sample	es containers arrive in good condition(unbroken)?	Yes 🔽	No 🗌	
14.	Does paperw	ork match bottle labels?	Yes 🗹	No 🗀	
15.	Are matrices	correctly identified on Chain of Custody?	Yes 🗹	No 🗌	
16.	Is it clear wha	at analyses were requested?	Yes 🗹	No 🗌	
17.	Were all hold	ing times able to be met?	Yes 🗹	No 🗌	
Spe	cial Handl	ing (if applicable)			
18.	Was client no	otified of all discrepancies with this order?	Yes	No \square	NA 🗹
	Person	Notified: Date			
	By Who	m: Via:	eMail Ph	one Fax [In Person
	Regardi				
	Client In	nstructions:			
19.	Additional rer	marks:			

Item Information

Item #	Temp ⁰C
Cooler	3.4
Sample	2.1

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

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N. Tel: 206-352-3178 Date: 9/08/2015 Page: Physical No finternal): Page: 1 of Physical Name: Pike Place Physical Name: Pike Place Physical Name: Physical	ected by: A We ly by	of western thremuse	204	Project No: Location:	mental)	CAN AND A	100	may hee	15/3 E	Client: Address:
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Distribution: White - Lat, Yellow - File, Pink - Originator

www.fremontanalytical.com



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

PBS Engineering & Environmental

Audrey McIvor 2517 Eastlake Ave, E #100 Seattle, WA 98102

RE: Pike Place PDA Lab ID: 1509412

October 01, 2015

Attention Audrey McIvor:

Fremont Analytical, Inc. received 5 sample(s) on 9/30/2015 for the analyses presented in the following report.

Gasoline by NWTPH-Gx
Sample Moisture (Percent Moisture)
Total Metals by EPA Method 6020
Volatile Organic Compounds by EPA Method 8260

This report consists of the following:

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

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

Thank you for using Fremont Analytical.

Sincerely,

Chelsea Ward Project Manager **CC:** Tom Mergy

Date: 10/01/2015



CLIENT: PBS Engineering & Environmental Work Order Sample Summary

Project: Pike Place PDA

Lab Order: 1509412

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1509412-001	TP-1	09/30/2015 9:00 AM	09/30/2015 10:40 AM
1509412-002	TP-2N	09/30/2015 9:20 AM	09/30/2015 10:40 AM
1509412-003	TP-3E	09/30/2015 10:00 AM	09/30/2015 10:40 AM
1509412-004	TP-4W	09/30/2015 10:15 AM	09/30/2015 10:40 AM
1509412-005	Trip Blank	09/29/2015 3:10 PM	09/30/2015 10:40 AM



Case Narrative

WO#: **1509412**Date: **10/1/2015**

CLIENT: PBS Engineering & Environmental

Project: Pike Place PDA

I. SAMPLE RECEIPT:

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

II. GENERAL REPORTING COMMENTS:

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

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

III. ANALYSES AND EXCEPTIONS:

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



Qualifiers & Acronyms

WO#: **1509412**

Date Reported: 10/1/2015

Qualifiers:

- * Flagged value is not within established control limits
- B Analyte detected in the associated Method Blank
- D Dilution was required
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- I Analyte with an internal standard that does not meet established acceptance criteria
- J Analyte detected below LOQ
- N Tentatively Identified Compound (TIC)
- Q Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S Spike recovery outside accepted recovery limits
- ND Not detected at the Reporting Limit

Acronyms:

%Rec - Percent Recovery

CCB - Continued Calibration Blank

CCV - Continued Calibration Verification

DF - Dilution Factor

HEM - Hexane Extractable Material

ICV - Initial Calibration Verification

LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate

MB or MBLANK - Method Blank

MDL - Method Detection Limit

MS/MSD - Matrix Spike / Matrix Spike Duplicate

PDS - Post Digestion Spike

Ref Val - Reference Value

RL - Reporting Limit

RPD - Relative Percent Difference

SD - Serial Dilution

SGT - Silica Gel Treatment

SPK - Spike

Surr - Surrogate



WO#: **1509412**

Date Reported: 10/1/2015

Client: PBS Engineering & Environmental Collection Date: 9/30/2015 9:00:00 AM

Project: Pike Place PDA

Lab ID: 1509412-001 **Matrix:** Soil

Client Sample ID: TP-1

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Gasoline by NWTPH-Gx				Batch	n ID: 1:	2005 Analyst: BC
Gasoline	5,780	321	D	mg/Kg-dry	50	9/30/2015 4:56:00 PM
Surr: 4-Bromofluorobenzene	101	65-135	D	%REC	50	9/30/2015 4:56:00 PM
Surr: Toluene-d8	97.5	65-135	D	%REC	50	9/30/2015 4:56:00 PM
Volatile Organic Compounds by	EPA Method	<u>8260</u>		Batch	n ID: 1:	2005 Analyst: BC
Benzene	5.55	1.28	D	mg/Kg-dry	50	9/30/2015 4:56:00 PM
Toluene	41.0	1.28	D	mg/Kg-dry	50	9/30/2015 4:56:00 PM
Ethylbenzene	18.5	1.93	D	mg/Kg-dry	50	9/30/2015 4:56:00 PM
m,p-Xylene	79.2	1.28	D	mg/Kg-dry	50	9/30/2015 4:56:00 PM
o-Xylene	32.5	1.28	D	mg/Kg-dry	50	9/30/2015 4:56:00 PM
Surr: Dibromofluoromethane	90.8	56.5-129	D	%REC	50	9/30/2015 4:56:00 PM
Surr: Toluene-d8	96.1	64.3-131	D	%REC	50	9/30/2015 4:56:00 PM
Surr: 1-Bromo-4-fluorobenzene	103	63.1-141	D	%REC	50	9/30/2015 4:56:00 PM
Total Metals by EPA Method 602	<u>0</u>			Batch	n ID: 1:	2004 Analyst: TN
Lead	19.4	0.181		mg/Kg-dry	1	9/30/2015 3:35:18 PM
Sample Moisture (Percent Moist	ure)			Batch	ı ID: R	25200 Analyst: CG
Percent Moisture	17.1	0.500		wt%	1	9/30/2015 11:09:42 AM



WO#: **1509412**

Date Reported: 10/1/2015

Client: PBS Engineering & Environmental Collection Date: 9/30/2015 9:20:00 AM

Project: Pike Place PDA

Lab ID: 1509412-002 **Matrix:** Soil

Client Sample ID: TP-2N

Analyses	Result	RL	Qual	Units	DF	- Da	ate Analyzed
Gasoline by NWTPH-Gx				Batch	ID:	12005	Analyst: BC
Gasoline	ND	8.05		mg/Kg-dry	1	9/30	/2015 2:34:00 PM
Surr: 4-Bromofluorobenzene	98.9	65-135		%REC	1	9/30	/2015 2:34:00 PM
Surr: Toluene-d8	94.6	65-135		%REC	1	9/30	/2015 2:34:00 PM
Volatile Organic Compounds by	EPA Method	<u>8260</u>		Batch	ID:	12005	Analyst: BC
Benzene	ND	0.0322		mg/Kg-dry	1	9/30	/2015 2:34:00 PM
Toluene	0.0434	0.0322		mg/Kg-dry	1	9/30	/2015 2:34:00 PM
Ethylbenzene	ND	0.0483		mg/Kg-dry	1	9/30	/2015 2:34:00 PM
m,p-Xylene	0.0426	0.0322		mg/Kg-dry	1	9/30	/2015 2:34:00 PM
o-Xylene	ND	0.0322		mg/Kg-dry	1	9/30	/2015 2:34:00 PM
Surr: Dibromofluoromethane	102	56.5-129		%REC	1	9/30	/2015 2:34:00 PM
Surr: Toluene-d8	99.2	64.3-131		%REC	1	9/30	/2015 2:34:00 PM
Surr: 1-Bromo-4-fluorobenzene	101	63.1-141		%REC	1	9/30	/2015 2:34:00 PM
Total Metals by EPA Method 602	<u>o</u>			Batch	ID:	12004	Analyst: TN
Lead	14.5	0.185		mg/Kg-dry	1	9/30	/2015 3:56:25 PM
Sample Moisture (Percent Moist	ure)			Batch	ID:	R25200	Analyst: CG
Percent Moisture	18.9	0.500		wt%	1	9/30	/2015 11:09:42 AM



WO#: **1509412**

Date Reported: 10/1/2015

Client: PBS Engineering & Environmental Collection Date: 9/30/2015 10:00:00 AM

Project: Pike Place PDA

Lab ID: 1509412-003 **Matrix:** Soil

Client Sample ID: TP-3E

Analyses	Result	RL	Qual	Units	DF	- Da	ite Analyzed
Gasoline by NWTPH-Gx				Batch	ID:	12005	Analyst: BC
Gasoline	ND	5.26		mg/Kg-dry	1	9/30	/2015 3:03:00 PM
Surr: 4-Bromofluorobenzene	101	65-135		%REC	1	9/30/	/2015 3:03:00 PM
Surr: Toluene-d8	92.6	65-135		%REC	1	9/30	/2015 3:03:00 PM
Volatile Organic Compounds by	EPA Method	<u>8260</u>		Batch	ID:	12005	Analyst: BC
Benzene	ND	0.0210		mg/Kg-dry	1	9/30/	/2015 3:03:00 PM
Toluene	ND	0.0210		mg/Kg-dry	1	9/30/	/2015 3:03:00 PM
Ethylbenzene	ND	0.0315		mg/Kg-dry	1	9/30/	/2015 3:03:00 PM
m,p-Xylene	ND	0.0210		mg/Kg-dry	1	9/30/	/2015 3:03:00 PM
o-Xylene	ND	0.0210		mg/Kg-dry	1	9/30/	/2015 3:03:00 PM
Surr: Dibromofluoromethane	101	56.5-129		%REC	1	9/30/	/2015 3:03:00 PM
Surr: Toluene-d8	98.8	64.3-131		%REC	1	9/30/	/2015 3:03:00 PM
Surr: 1-Bromo-4-fluorobenzene	104	63.1-141		%REC	1	9/30	/2015 3:03:00 PM
Total Metals by EPA Method 6020	<u>0</u>			Batch	ID:	12004	Analyst: TN
Lead	2.63	0.194		mg/Kg-dry	1	9/30/	/2015 3:59:56 PM
Sample Moisture (Percent Moistu	ure)			Batch	ID:	R25200	Analyst: CG
Percent Moisture	21.0	0.500		wt%	1	9/30/	/2015 11:09:42 AM



WO#: **1509412**

Date Reported: 10/1/2015

Client: PBS Engineering & Environmental Collection Date: 9/30/2015 10:15:00 AM

Project: Pike Place PDA

Lab ID: 1509412-004 **Matrix:** Soil

Client Sample ID: TP-4W

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Gasoline by NWTPH-Gx				Batch	ID:	12005 Analyst: BC
Gasoline	ND	5.90		mg/Kg-dry	1	9/30/2015 3:59:00 PM
Surr: 4-Bromofluorobenzene	101	65-135		%REC	1	9/30/2015 3:59:00 PM
Surr: Toluene-d8	94.3	65-135		%REC	1	9/30/2015 3:59:00 PM
Volatile Organic Compounds by EPA	A Method	<u>8260</u>		Batch	ID:	12005 Analyst: BC
Benzene	ND	0.0237		mg/Kg-dry	1	9/30/2015 3:59:00 PM
Toluene	ND	0.0237		mg/Kg-dry	1	9/30/2015 3:59:00 PM
Ethylbenzene	ND	0.0355		mg/Kg-dry	1	9/30/2015 3:59:00 PM
m,p-Xylene	ND	0.0237		mg/Kg-dry	1	9/30/2015 3:59:00 PM
o-Xylene	ND	0.0237		mg/Kg-dry	1	9/30/2015 3:59:00 PM
Surr: Dibromofluoromethane	101	56.5-129		%REC	1	9/30/2015 3:59:00 PM
Surr: Toluene-d8	99.8	64.3-131		%REC	1	9/30/2015 3:59:00 PM
Surr: 1-Bromo-4-fluorobenzene	104	63.1-141		%REC	1	9/30/2015 3:59:00 PM
Total Metals by EPA Method 6020				Batch	ID:	12004 Analyst: TN
Lead	3.99	0.191		mg/Kg-dry	1	9/30/2015 4:10:32 PM
Sample Moisture (Percent Moisture)	<u>)</u>			Batch	ID:	R25200 Analyst: CG
Percent Moisture	24.8	0.500		wt%	1	9/30/2015 11:09:42 AM

Date: 10/1/2015

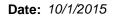


Work Order: 1509412

QC SUMMARY REPORT

CLIENT: PBS Engineering & Environmental

Project:		PDA	41						Total Me	tals by EF	A Metho	d 6020
Sample ID	MB-12004	SampType: MBLK			Units: mg/Kg		Prep Date:	9/30/20	15	RunNo: 25	220	
Client ID:	MBLKS	Batch ID: 12004					Analysis Date:	9/30/20	15	SeqNo: 47	5544	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit H	ighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		ND	0.200									
Sample ID	LCS-12004	SampType: LCS			Units: mg/Kg		Prep Date:	9/30/20	15	RunNo: 25	220	
Client ID:	LCSS	Batch ID: 12004					Analysis Date:	9/30/20	15	SeqNo: 47	5545	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit H	ighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		21.8	0.200	25.00	0	87.2	80	120				
Sample ID	1509412-001ADUP	SampType: DUP			Units: mg/Kg-	dry	Prep Date:	9/30/20	15	RunNo: 25	220	
Client ID:	TP-1	Batch ID: 12004					Analysis Date:	9/30/20	15	SeqNo: 47	5547	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit H	ighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		27.5	0.183						19.35	34.7	20	R
NOTES: R - High		sample inhomogeneity. Th	e method is	s in control as	indicated by the Lab	oratory C	ontrol Sample (I	_CS).				
Sample ID	1509412-001AMS	SampType: MS			Units: mg/Kg-	dry	Prep Date:	9/30/20	15	RunNo: 25	220	
Client ID:	TP-1	Batch ID: 12004					Analysis Date:	9/30/20	15	SeqNo: 47	5549	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit H	ighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		37.6	0.183	22.84	19.35	79.8	75	125				
Sample ID	1509412-001AMSD	SampType: MSD			Units: mg/Kg-	dry	Prep Date:	9/30/20	15	RunNo: 25 2	220	
Client ID:	TP-1	Batch ID: 12004					Analysis Date:	9/30/20	15	SeqNo: 47	5550	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit H	ighLimit	RPD Ref Val	%RPD	RPDLimit	Qual





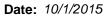
CLIENT:

PBS Engineering & Environmental

QC SUMMARY REPORT

Casalina by NWTDH Cy

Project: Pike Place	PDA								Gasoline	by NWT	PH-G
Sample ID LCS-12005	SampType: LCS			Units: mg/K	g	Prep Date	: 9/30/20)15	RunNo: 252	223	
Client ID: LCSS	Batch ID: 12005					Analysis Date	: 9/30/20)15	SeqNo: 47	5687	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit I	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	24.8	5.00	25.00	0	99.2	65	135				
Surr: Toluene-d8	1.18		1.250		94.4	65	135				
Surr: 4-Bromofluorobenzene	1.25		1.250		99.6	65	135				
Sample ID MB-12005	SampType: MBLK			Units: mg/K	g	Prep Date	: 9/30/20)15	RunNo: 25 2	223	
Client ID: MBLKS	Batch ID: 12005					Analysis Date	9/30/20)15	SeqNo: 47	5689	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit I	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	ND	5.00									
Surr: Toluene-d8	1.16		1.250		92.9	65	135				
Surr: 4-Bromofluorobenzene	1.27		1.250		101	65	135				
Sample ID 1509412-003BDUP	SampType: DUP			Units: mg/K	g-dry	Prep Date	: 9/30/20)15	RunNo: 25 2	223	
Client ID: TP-3E	Batch ID: 12005					Analysis Date	e: 9/30/20	15	SeqNo: 47	5684	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit I	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	ND	5.26						0		30	
Surr: Toluene-d8	1.17		1.313		89.4	65	135		0		
Surr: 4-Bromofluorobenzene	1.29		1.313		98.4	65	135		0		

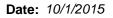




QC SUMMARY REPORT

CLIENT: PBS Engineering & Environmental

Project: Pike Place P	DA					voiatile	Organ	ic Compou	nds by EP	A Metho	u 020
Sample ID LCS-12005	SampType: LCS			Units: mg/Kg		Prep Date	9/30/20	15	RunNo: 252	224	
Client ID: LCSS	Batch ID: 12005					Analysis Date	9/30/20	15	SeqNo: 475	5701	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit H	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.781	0.0200	1.000	0	78.1	64.3	133				
Toluene	0.779	0.0200	1.000	0	77.9	67.3	138				
Ethylbenzene	0.804	0.0300	1.000	0	80.4	74	129				
m,p-Xylene	1.69	0.0200	2.000	0	84.3	79.8	128				
o-Xylene	0.841	0.0200	1.000	0	84.1	72.7	124				
Surr: Dibromofluoromethane	1.24		1.250		99.1	56.5	129				
Surr: Toluene-d8	1.22		1.250		97.4	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.30		1.250		104	63.1	141				
Sample ID MB-12005	SampType: MBLK			Units: mg/Kg		Prep Date	9/30/20)15	RunNo: 252	224	
Client ID: MBLKS	Batch ID: 12005					Analysis Date	9/30/20	15	SeqNo: 475	5702	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit I	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.0200									
Toluene	ND	0.0200									
Ethylbenzene	ND	0.0300									
m,p-Xylene	ND	0.0200									
o-Xylene	ND	0.0200									
Surr: Dibromofluoromethane	1.26		1.250		101	56.5	129				
Surr: Toluene-d8	1.22		1.250		97.2	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.29		1.250		103	63.1	141				
Sample ID 1509412-003BDUP	SampType: DUP			Units: mg/Kg-	dry	Prep Date	9/30/20	115	RunNo: 252	224	
Client ID: TP-3E	Batch ID: 12005					Analysis Date	9/30/20	15	SeqNo: 475	697	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit I	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.0210					_	0		30	
Toluene	ND	0.0210						0		30	
Ethylbenzene	ND	0.0315						0		30	
m,p-Xylene	ND	0.0210						0		30	





QC SUMMARY REPORT

CLIENT: PBS Engineering & Environmental Pike Place PDA

Project: Pike Place P	DA					Volatile	e Organ	ic Compou	nds by EP	'A Metho	d 8260
Sample ID 1509412-003BDUP	SampType: DUP			Units: mg/l	Kg-dry	Prep Dat	e: 9/30/2 0)15	RunNo: 252	224	
Client ID: TP-3E	Batch ID: 12005					Analysis Dat	e: 9/30/2 0)15	SeqNo: 47	5697	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
o-Xylene	ND	0.0210						0		30	
Surr: Dibromofluoromethane	1.31		1.313		99.9	56.5	129		0		
Surr: Toluene-d8	1.25		1.313		95.3	64.3	131		0		
Surr: 1-Bromo-4-fluorobenzene	1.32		1.313		100	63.1	141		0		

Sample ID 1509412-004BMS	SampType: MS			Units: mg/h	(g-dry	Prep Date: 9/30/2015		15	RunNo: 25224		
Client ID: TP-4W	Batch ID: 12005					Analysis Dat	te: 9/30/20	15	SeqNo: 475		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	1.17	0.0237	1.182	0	99.4	63.5	133				
Toluene	1.19	0.0237	1.182	0	101	63.4	132				
Ethylbenzene	1.22	0.0355	1.182	0	103	54.5	134				
m,p-Xylene	2.54	0.0237	2.363	0.006499	107	53.1	132				
o-Xylene	1.27	0.0237	1.182	0	107	53.3	139				
Surr: Dibromofluoromethane	1.52		1.477		103	56.5	129				
Surr: Toluene-d8	1.47		1.477		99.4	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.52		1.477		103	63.1	141				

Date: 10/1/2015



Work Order: 1509412

Project:

QC SUMMARY REPORT

CLIENT: PBS Engineering & Environmental Pike Place PDA

Sample Moisture (Percent Moisture)

Sample ID 1509412-004ADUP	SampType: DUP	Units: wt%	Prep Date: 9/30/2015	RunNo: 25200

Analysis Date: 9/30/2015 SeqNo: 475239 Client ID: TP-4W Batch ID: **R25200**

SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val Analyte Result %RPD RPDLimit Qual

Percent Moisture 25.1 0.500 24.79 1.11 20



Sample Log-In Check List

С	lient Name:	PBS	Work Order Number	: 1509412	
Lo	ogged by:	Erica Silva	Date Received:	9/30/2015	10:40:00 AM
Cha	nin of Custo	<u>ody</u>			
1.	Is Chain of Co	ustody complete?	Yes 🗸	No \square	Not Present
2.	How was the	sample delivered?	<u>Client</u>		
<u>Log</u>	ı İn				
3.		present?	Yes 🗹	No 🗌	NA 🗆
0.	,				
4.	Shipping cont	tainer/cooler in good condition?	Yes 🗹	No \square	
5.		s present on shipping container/cooler? aments for Custody Seals not intact)	Yes	No 🗌	Not Required 🗹
6.	Was an attern	npt made to cool the samples?	Yes 🗸	No \square	NA 🗌
7.	Were all item	s received at a temperature of >0°C to 10.0°C*	Yes	No 🗹	NA 🗆
		Sample	s received straight f	rom field	
8.		proper container(s)?	Yes 🗹	No 🗌	
9.	Sufficient san	nple volume for indicated test(s)?	Yes 🗹	No 🗌	
10.	Are samples	properly preserved?	Yes 🗹	No 🗌	
11.	Was preserva	ative added to bottles?	Yes L	No 🗸	NA 📙
12.	Is there head	space in the VOA vials?	Yes	No 🗆	NA 🗸
13.	Did all sample	es containers arrive in good condition(unbroken)?	Yes 🗹	No 🗌	
14.	Does paperw	ork match bottle labels?	Yes 🗹	No \square	
15.	Are matrices	correctly identified on Chain of Custody?	Yes 🗸	No 🗌	
16.	Is it clear wha	at analyses were requested?	Yes 🗹	No 🗌	
17.	Were all hold	ing times able to be met?	Yes 🗸	No 🗌	
Sne	cial Handli	ing (if applicable)			
		otified of all discrepancies with this order?	Yes	No 🗌	NA 🗹
10.					
	Person I				¬
	By Who		eMail Phon	e Fax	In Person
	Regardi				
		structions:			
19.	Additional ren	narks:			
ltem	<u>Information</u>				

Item #	Temp ⁰C
Cooler	15.1
Sample	17.1
Temp Blank	18.9

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

Sample Disposal:

Nitrite Chir Return to Clent

Disposal by Lab (A fee maybe as

shate Fluorida

elinquished

Date/Time

94,0

***Anions (Circle):

Nitrate

Chloride

Suffate

TAL

O-Phosphate

** Metals Analysis (Circle):

MTCA-S

RCRA-8

Priority Pollutants

Individual Ag Al As B Ba Be Ca

Date/fime	BO 15	ale+Nitrite	0 00 01 00	H		×	×	×	×	Continue Water, G
	0301	Turn-around times for samples received after 4:00pm will begin on the following business day.	Fe Hg K Mg Mn Mo Na							er, GW = Ground Water, GRESS 48 GS GRESS
TAT > \$6meDays NextDays 2 Day 3 Day 5TD **Please coordinate with the lab in advance.		n Special Remarks:	150							SW = Storm Water, WW = Waste Water Comments

material Laboratory Project No (internal): Chain of Custody Record 509412

Pike Place

PDA

40000000

Collected by:

K31577611V

*Matrix Codes: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soill, SD = Sediment, SL = Soild, W = Water

City, State, Zip.

Telephone:

360-830-838

Fax

Project No:
Project No:
Location:
Report To (PM):
PM Email:

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Client: Address:

3600 Fremant Ave N. Seattle, WA 98103

Tel: 206-352-3790 Fax: 206-352-7178

Sample Name

Sample Date

> Type (Maurix)*

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Em

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10.15

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XX



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

PBS Engineering & Environmental

Audrey McIvor 2517 Eastlake Ave, E #100 Seattle, WA 98102

RE: Pike Place PDA Lab ID: 1510193

October 27, 2015

Attention Audrey McIvor:

Fremont Analytical, Inc. received 7 sample(s) on 10/14/2015 for the analyses presented in the following report.

Gasoline by NWTPH-Gx
Sample Moisture (Percent Moisture)
Total Metals by EPA Method 6020
Volatile Organic Compounds by EPA Method 8260
Volatile Petroleum Hydrocarbons by NWVPH

This report consists of the following:

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

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

Thank you for using Fremont Analytical.

Sincerely,

Chelsea Ward Project Manager CC: Mike Bagley Tom Mergy

Date: 10/27/2015



CLIENT: PBS Engineering & Environmental Work Order Sample Summary

Project: Pike Place PDA

Lab Order: 1510193

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1510193-001	B-1S	10/14/2015 11:35 AM	10/14/2015 1:40 PM
1510193-002	B-2N	10/14/2015 12:30 PM	10/14/2015 1:40 PM
1510193-003	W-5W	10/14/2015 12:45 PM	10/14/2015 1:40 PM
1510193-004	W-3N	10/14/2015 12:55 PM	10/14/2015 1:40 PM
1510193-005	W-6S	10/14/2015 1:00 PM	10/14/2015 1:40 PM
1510193-006	W-4E	10/14/2015 1:05 PM	10/14/2015 1:40 PM
1510193-007	Trip Blank	10/01/2015 12:52 PM	10/14/2015 1:40 PM



Case Narrative

WO#: **1510193**Date: **10/27/2015**

CLIENT: PBS Engineering & Environmental

Project: Pike Place PDA

I. SAMPLE RECEIPT:

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

II. GENERAL REPORTING COMMENTS:

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

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

III. ANALYSES AND EXCEPTIONS:

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



Qualifiers & Acronyms

WO#: **1510193**

Date Reported: 10/27/2015

Qualifiers:

- * Flagged value is not within established control limits
- B Analyte detected in the associated Method Blank
- D Dilution was required
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- I Analyte with an internal standard that does not meet established acceptance criteria
- J Analyte detected below Reporting Limit
- N Tentatively Identified Compound (TIC)
- Q Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S Spike recovery outside accepted recovery limits
- ND Not detected at the Reporting Limit
- R High relative percent difference observed

Acronyms:

%Rec - Percent Recovery

CCB - Continued Calibration Blank

CCV - Continued Calibration Verification

DF - Dilution Factor

HEM - Hexane Extractable Material

ICV - Initial Calibration Verification

LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate

MB or MBLANK - Method Blank

MDL - Method Detection Limit

MS/MSD - Matrix Spike / Matrix Spike Duplicate

PDS - Post Digestion Spike

Ref Val - Reference Value

RL - Reporting Limit

RPD - Relative Percent Difference

SD - Serial Dilution

SGT - Silica Gel Treatment

SPK - Spike

Surr - Surrogate



WO#: **1510193**

Date Reported: 10/27/2015

Client: PBS Engineering & Environmental Collection Date: 10/14/2015 11:35:00 AM

Project: Pike Place PDA

Lab ID: 1510193-001 **Matrix:** Soil

Client Sample ID: B-1S

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Gasoline by NWTPH-Gx				Batch	ID:	12115 Analyst: BC
Gasoline	ND	5.70		mg/Kg-dry	1	10/15/2015 8:26:00 AM
Surr: 4-Bromofluorobenzene	101	65-135		%REC	1	10/15/2015 8:26:00 AM
Surr: Toluene-d8	99.1	65-135		%REC	1	10/15/2015 8:26:00 AM
Volatile Organic Compounds by EP	A Method	<u>8260</u>		Batch	ID:	12115 Analyst: BC
Benzene	ND	0.0228		mg/Kg-dry	1	10/15/2015 8:26:00 AM
Toluene	ND	0.0228		mg/Kg-dry	1	10/15/2015 8:26:00 AM
Ethylbenzene	ND	0.0342		mg/Kg-dry	1	10/15/2015 8:26:00 AM
m,p-Xylene	ND	0.0228		mg/Kg-dry	1	10/15/2015 8:26:00 AM
o-Xylene	ND	0.0228		mg/Kg-dry	1	10/15/2015 8:26:00 AM
Surr: Dibromofluoromethane	94.9	56.5-129		%REC	1	10/15/2015 8:26:00 AM
Surr: Toluene-d8	99.6	64.3-131		%REC	1	10/15/2015 8:26:00 AM
Surr: 1-Bromo-4-fluorobenzene	99.1	63.1-141		%REC	1	10/15/2015 8:26:00 AM
Total Metals by EPA Method 6020				Batch	ID:	12114 Analyst: TN
Lead	3.20	0.206		mg/Kg-dry	1	10/14/2015 5:23:32 PM
Sample Moisture (Percent Moisture))			Batch	ID:	R25479 Analyst: SL
Percent Moisture	20.6	0.500		wt%	1	10/14/2015 3:36:15 PM



WO#: **1510193**

Date Reported: 10/27/2015

Client: PBS Engineering & Environmental Collection Date: 10/14/2015 12:30:00 PM

Project: Pike Place PDA

Lab ID: 1510193-002 **Matrix:** Soil

Client Sample ID: B-2N

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Gasoline by NWTPH-Gx				Batch	ID:	12115 Analyst: BC
Gasoline	ND	6.66		mg/Kg-dry	1	10/15/2015 9:24:00 AM
Surr: 4-Bromofluorobenzene	99.7	65-135		%REC	1	10/15/2015 9:24:00 AM
Surr: Toluene-d8	98.7	65-135		%REC	1	10/15/2015 9:24:00 AM
Volatile Organic Compounds by E	PA Method	<u>8260</u>		Batch	ID:	12115 Analyst: BC
Benzene	ND	0.0266		mg/Kg-dry	1	10/15/2015 9:24:00 AM
Toluene	ND	0.0266		mg/Kg-dry	1	10/15/2015 9:24:00 AM
Ethylbenzene	ND	0.0400		mg/Kg-dry	1	10/15/2015 9:24:00 AM
m,p-Xylene	ND	0.0266		mg/Kg-dry	1	10/15/2015 9:24:00 AM
o-Xylene	ND	0.0266		mg/Kg-dry	1	10/15/2015 9:24:00 AM
Surr: Dibromofluoromethane	95.3	56.5-129		%REC	1	10/15/2015 9:24:00 AM
Surr: Toluene-d8	101	64.3-131		%REC	1	10/15/2015 9:24:00 AM
Surr: 1-Bromo-4-fluorobenzene	97.9	63.1-141		%REC	1	10/15/2015 9:24:00 AM
Total Metals by EPA Method 6020				Batch	ID:	12114 Analyst: TN
Lead	6.94	0.214		mg/Kg-dry	1	10/14/2015 5:44:39 PM
Sample Moisture (Percent Moistur	<u>'e)</u>			Batch	ID:	R25479 Analyst: SL
Percent Moisture	25.4	0.500		wt%	1	10/14/2015 3:36:15 PM



WO#: **1510193**

Date Reported: 10/27/2015

Client: PBS Engineering & Environmental Collection Date: 10/14/2015 12:45:00 PM

Project: Pike Place PDA

Lab ID: 1510193-003 **Matrix:** Soil

Client Sample ID: W-5W

Analyses	Result	RL	Qual	Units	DF	- Da	ate Analyzed
Gasoline by NWTPH-Gx				Batch	ID:	12115	Analyst: BC
Gasoline	13.4	6.94		mg/Kg-dry	1	10/1	5/2015 9:53:00 AM
Surr: 4-Bromofluorobenzene	101	65-135		%REC	1	10/1	5/2015 9:53:00 AM
Surr: Toluene-d8	98.7	65-135		%REC	1	10/1	5/2015 9:53:00 AM
Volatile Organic Compounds by	EPA Method	<u>8260</u>		Batch	ID:	12115	Analyst: BC
Benzene	0.0536	0.0278		mg/Kg-dry	1	10/1	5/2015 9:53:00 AM
Toluene	ND	0.0278		mg/Kg-dry	1	10/1	5/2015 9:53:00 AM
Ethylbenzene	ND	0.0416		mg/Kg-dry	1	10/1	5/2015 9:53:00 AM
m,p-Xylene	ND	0.0278		mg/Kg-dry	1	10/1	5/2015 9:53:00 AM
o-Xylene	ND	0.0278		mg/Kg-dry	1	10/1	5/2015 9:53:00 AM
Surr: Dibromofluoromethane	95.2	56.5-129		%REC	1	10/1	5/2015 9:53:00 AM
Surr: Toluene-d8	101	64.3-131		%REC	1	10/1	5/2015 9:53:00 AM
Surr: 1-Bromo-4-fluorobenzene	99.0	63.1-141		%REC	1	10/1	5/2015 9:53:00 AM
Total Metals by EPA Method 602	<u>20</u>			Batch	ID:	12114	Analyst: TN
Lead	6.87	0.207		mg/Kg-dry	1	10/1	4/2015 5:48:10 PM
Sample Moisture (Percent Moist	ture)			Batch	ID:	R25479	Analyst: SL
Percent Moisture	23.2	0.500		wt%	1	10/1	4/2015 3:36:15 PM



WO#: **1510193**

Date Reported: 10/27/2015

Client: PBS Engineering & Environmental Collection Date: 10/14/2015 12:55:00 PM

Project: Pike Place PDA

Lab ID: 1510193-004 **Matrix:** Soil

Client Sample ID: W-3N

Analyses	Result	RL	Qual	Units	DF	- Da	te Analyzed
Gasoline by NWTPH-Gx				Batch	ID:	12115	Analyst: BC
Gasoline	ND	4.83		mg/Kg-dry	1	10/15	/2015 10:21:00 AM
Surr: 4-Bromofluorobenzene	101	65-135		%REC	1	10/15	/2015 10:21:00 AM
Surr: Toluene-d8	98.4	65-135		%REC	1	10/15	/2015 10:21:00 AM
Volatile Organic Compounds by	EPA Method	<u>8260</u>		Batch	ID:	12115	Analyst: BC
Benzene	0.0635	0.0193		mg/Kg-dry	1	10/15	/2015 10:21:00 AM
Toluene	0.0724	0.0193		mg/Kg-dry	1	10/15	/2015 10:21:00 AM
Ethylbenzene	ND	0.0290		mg/Kg-dry	1	10/15	/2015 10:21:00 AM
m,p-Xylene	0.0509	0.0193		mg/Kg-dry	1	10/15	/2015 10:21:00 AM
o-Xylene	ND	0.0193		mg/Kg-dry	1	10/15	/2015 10:21:00 AM
Surr: Dibromofluoromethane	97.4	56.5-129		%REC	1	10/15	/2015 10:21:00 AM
Surr: Toluene-d8	101	64.3-131		%REC	1	10/15	/2015 10:21:00 AM
Surr: 1-Bromo-4-fluorobenzene	99.6	63.1-141		%REC	1	10/15	/2015 10:21:00 AM
Total Metals by EPA Method 602	<u>20</u>			Batch	ID:	12114	Analyst: TN
Lead	9.11	0.214		mg/Kg-dry	1	10/14	/2015 5:58:46 PM
Sample Moisture (Percent Moist	:ure)			Batch	ID:	R25479	Analyst: SL
Percent Moisture	25.1	0.500		wt%	1	10/14	/2015 3:36:15 PM



WO#: **1510193**

Date Reported: 10/27/2015

Client: PBS Engineering & Environmental Collection Date: 10/14/2015 1:00:00 PM

Project: Pike Place PDA

Lab ID: 1510193-005 **Matrix:** Soil

Client Sample ID: W-6S

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Gasoline by NWTPH-Gx				Batch	ID:	12115 Analyst: BC
Gasoline	ND	7.09		mg/Kg-dry	1	10/15/2015 10:50:00 AM
Surr: 4-Bromofluorobenzene	101	65-135		%REC	1	10/15/2015 10:50:00 AM
Surr: Toluene-d8	98.3	65-135		%REC	1	10/15/2015 10:50:00 AM
Volatile Organic Compounds by EP	A Method	<u>8260</u>		Batch	ID:	12115 Analyst: BC
Benzene	ND	0.0284		mg/Kg-dry	1	10/15/2015 10:50:00 AM
Toluene	ND	0.0284		mg/Kg-dry	1	10/15/2015 10:50:00 AM
Ethylbenzene	ND	0.0425		mg/Kg-dry	1	10/15/2015 10:50:00 AM
m,p-Xylene	ND	0.0284		mg/Kg-dry	1	10/15/2015 10:50:00 AM
o-Xylene	ND	0.0284		mg/Kg-dry	1	10/15/2015 10:50:00 AM
Surr: Dibromofluoromethane	95.8	56.5-129		%REC	1	10/15/2015 10:50:00 AM
Surr: Toluene-d8	99.9	64.3-131		%REC	1	10/15/2015 10:50:00 AM
Surr: 1-Bromo-4-fluorobenzene	99.7	63.1-141		%REC	1	10/15/2015 10:50:00 AM
Total Metals by EPA Method 6020				Batch	ID:	12114 Analyst: TN
Lead	9.12	0.186		mg/Kg-dry	1	10/14/2015 6:02:17 PM
Sample Moisture (Percent Moisture)	<u>)</u>			Batch	ID:	R25479 Analyst: SL
Percent Moisture	22.7	0.500		wt%	1	10/14/2015 3:36:15 PM



WO#: **1510193**Date Reported: **10/27/2015**

Client: PBS Engineering & Environmental Collection Date: 10/14/2015 1:05:00 PM

Project: Pike Place PDA

Lab ID: 1510193-006 **Matrix:** Soil

Client Sample ID: W-4E

Analyses	Result	RL	Qual	Units	DF	Dat	e Analyzed
Gasoline by NWTPH-Gx				Batch	ID:	12115	Analyst: BC
Gasoline	84.5	5.95		mg/Kg-dry	1	10/15/	2015 11:19:00 AM
Surr: 4-Bromofluorobenzene	102	65-135		%REC	1	10/15/	2015 11:19:00 AM
Surr: Toluene-d8	99.2	65-135		%REC	1	10/15/	2015 11:19:00 AM
Volatile Organic Compounds by EPA	A Method	<u>8260</u>		Batch	ID:	12115	Analyst: BC
Methyl tert-butyl ether (MTBE)	ND	0.0595		mg/Kg-dry	1	10/15/	2015 11:19:00 AM
Benzene	1.86	0.0238		mg/Kg-dry	1	10/15/	2015 11:19:00 AM
Toluene	2.61	0.476	D	mg/Kg-dry	20	10/16/	2015 10:35:00 AM
Ethylbenzene	0.640	0.0357		mg/Kg-dry	1	10/15/	2015 11:19:00 AM
m,p-Xylene	4.22	0.0238		mg/Kg-dry	1	10/15/	2015 11:19:00 AM
o-Xylene	1.78	0.0238		mg/Kg-dry	1	10/15/	2015 11:19:00 AM
Naphthalene	0.449	0.0357		mg/Kg-dry	1	10/15/	2015 11:19:00 AM
Surr: Dibromofluoromethane	96.1	56.5-129		%REC	1	10/15/	2015 11:19:00 AM
Surr: Toluene-d8	101	64.3-131		%REC	1	10/15/	2015 11:19:00 AM
Surr: 1-Bromo-4-fluorobenzene	101	63.1-141		%REC	1	10/15/	2015 11:19:00 AM
Volatile Petroleum Hydrocarbons by	NWVPH			Batch	ID:	12197	Analyst: BC
Aliphatic Hydrocarbon (C5-C6)	ND	3.16		mg/Kg-dry	1	10/24/	2015 7:28:00 AM
Aliphatic Hydrocarbon (C6-C8)	27.9	3.16		mg/Kg-dry	1	10/24/	2015 7:28:00 AM
Aliphatic Hydrocarbon (C8-C10)	10.3	3.16		mg/Kg-dry	1		2015 7:28:00 AM
Aliphatic Hydrocarbon (C10-C12)	6.68	3.16		mg/Kg-dry	1	10/24/	2015 7:28:00 AM
Aromatic Hydrocarbon (C8-C10)	29.7	3.16		mg/Kg-dry	1	10/24/	2015 7:28:00 AM
Aromatic Hydrocarbon (C10-C12)	16.1	3.16		mg/Kg-dry	1	10/24/	2015 7:28:00 AM
Aromatic Hydrocarbon (C12-C13)	4.08	3.16		mg/Kg-dry	1	10/24/	2015 7:28:00 AM
Surr: 1,4-Difluorobenzene	107	65-140		%REC	1	10/24/	2015 7:28:00 AM
Surr: Bromofluorobenzene	105	65-140		%REC	1	10/24/	2015 7:28:00 AM
Total Metals by EPA Method 6020				Batch	ID:	12114	Analyst: TN
Lead	19.4	0.206		mg/Kg-dry	1	10/14/	2015 6:05:48 PM
Sample Moisture (Percent Moisture)				Batch	ID:	R25479	Analyst: SL
Percent Moisture	23.5	0.500		wt%	1	10/14/	2015 3:36:15 PM

Date: 10/27/2015



Work Order: 1510193

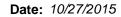
CLIENT:

PBS Engineering & Environmental

QC SUMMARY REPORT

Total Metals by EPA Method 6020

Project: Pike Place	PDA						i Otai Wi	etals by EPA Method	a 6020
Sample ID MB-12114	SampType: MBLK			Units: mg/Kg	1	Prep Date	10/14/2015	RunNo: 25484	
Client ID: MBLKS	Batch ID: 12114					Analysis Date	10/14/2015	SeqNo: 480928	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit H	HighLimit RPD Ref Val	%RPD RPDLimit	Qual
Lead	ND	0.200							
Sample ID LCS-12114	SampType: LCS			Units: mg/Kg	J	Prep Date	10/14/2015	RunNo: 25484	
Client ID: LCSS	Batch ID: 12114					Analysis Date	10/14/2015	SeqNo: 480929	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit H	HighLimit RPD Ref Val	%RPD RPDLimit	Qual
Lead	22.6	0.200	25.00	0	90.4	80	120		
Sample ID 1510193-001ADUP	SampType: DUP			Units: mg/Kg	g-dry	Prep Date	10/14/2015	RunNo: 25484	
Client ID: B-1S	Batch ID: 12114					Analysis Date	10/14/2015	SeqNo: 480931	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit H	HighLimit RPD Ref Val	%RPD RPDLimit	Qual
Lead	3.19	0.200					3.202	0.340 20	
Sample ID 1510193-001AMS	SampType: MS			Units: mg/Kg	j-dry	Prep Date	10/14/2015	RunNo: 25484	
Client ID: B-1S	Batch ID: 12114					Analysis Date	10/14/2015	SeqNo: 480933	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit I	HighLimit RPD Ref Val	%RPD RPDLimit	Qual
Lead	24.6	0.195	24.40	3.202	87.8	75	125		
Sample ID 1510193-001AMSD	SampType: MSD			Units: mg/Kg	J-dry	Prep Date	10/14/2015	RunNo: 25484	
Client ID: B-1S	Batch ID: 12114					Analysis Date	10/14/2015	SeqNo: 480934	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit I	HighLimit RPD Ref Val	%RPD RPDLimit	Qual
Lead	25.2	0.195	24.40	3.202	90.3	75	125 24.62	2.46 20	



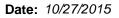


QC SUMMARY REPORT

CLIENT: PBS Engineering & Environmental

Gasoline by NWTPH-Gx

Project: Pike Place	PDA								Gasonne	by MVV I	PH-G
Sample ID LCS-12115	SampType: LCS			Units: mg/K	g	Prep Da	te: 10/14/2	2015	RunNo: 25	502	
Client ID: LCSS	Batch ID: 12115					Analysis Da	te: 10/15/2	2015	SeqNo: 48	1183	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	24.5	5.00	25.00	0	97.8	65	135				
Surr: Toluene-d8	1.24		1.250		99.2	65	135				
Surr: 4-Bromofluorobenzene	1.25		1.250		100	65	135				
Sample ID MB-12115	SampType: MBLK			Units: mg/K	g	Prep Da	te: 10/14/2	2015	RunNo: 25	502	
Client ID: MBLKS	Batch ID: 12115					Analysis Da	te: 10/15/2	2015	SeqNo: 48	1184	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	ND	5.00									
Surr: Toluene-d8	1.25		1.250		100	65	135				
Surr: 4-Bromofluorobenzene	1.25		1.250		100	65	135				
Sample ID 1510170-014BDUP	SampType: DUP			Units: mg/K	g-dry	Prep Da	te: 10/14/2	2015	RunNo: 25	502	
Client ID: BATCH	Batch ID: 12115					Analysis Da	te: 10/15/2	2015	SeqNo: 48	1165	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	ND	2.56						0		30	
Surr: Toluene-d8	0.632		0.6389		98.9	65	135		0		
Surr: 4-Bromofluorobenzene	0.645		0.6389		101	65	135		0		
Sample ID 1510193-001BDUP	SampType: DUP			Units: mg/K	g-dry	Prep Da	te: 10/14/2	2015	RunNo: 25	502	
Client ID: B-1S	Batch ID: 12115					Analysis Da	te: 10/15/2	2015	SeqNo: 48	1175	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	ND	5.70						0		30	
0 - 1			1.425		00.0	0.5	405		0		
Surr: Toluene-d8	1.41		1.425		98.8	65	135		U		

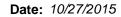




QC SUMMARY REPORT

CLIENT: PBS Engineering & Environmental

Project: Pike Place P	PDA					Volatil	e Organ	ic Compou	nds by EP	PA Metho	d 8260
Sample ID LCS-12115	SampType: LC	S		Units: mg/Kg		Prep Dat	e: 10/14/2	2015	RunNo: 25	498	
Client ID: LCSS	Batch ID: 121	115				Analysis Dat	te: 10/15/2	2015	SeqNo: 48	1130	
Analyte	Resul	t RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	1.04	1 0.0500	1.000	0	104	59.1	138				
Benzene	1.12	0.0200	1.000	0	112	64.3	133				
Toluene	1.11	0.0200	1.000	0	111	67.3	138				
Ethylbenzene	1.14	0.0300	1.000	0	114	74	129				
m,p-Xylene	2.24	0.0200	2.000	0	112	79.8	128				
o-Xylene	1.14	0.0200	1.000	0	114	72.7	124				
Naphthalene	0.990	0.0300	1.000	0	99.0	62.3	134				
Surr: Dibromofluoromethane	1.31	I	1.250		105	56.5	129				
Surr: Toluene-d8	1.25	5	1.250		100	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.28	3	1.250		103	63.1	141				
Sample ID MB-12115	SampType: MB	BLK		Units: mg/Kg		Prep Dat	e: 10/14/2	2015	RunNo: 25	498	
Client ID: MBLKS	Batch ID: 121	115				Analysis Dat	te: 10/15/2	2015	SeqNo: 48	1131	
Analyte	Resul	t RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	NE	0.0500									
Benzene	NE	0.0200									
Toluene	NE	0.0200									
Ethylbenzene	NE	0.0300									
m,p-Xylene	NE	0.0200									
o-Xylene	NE	0.0200									
Naphthalene	NE	0.0300									
Surr: Dibromofluoromethane	1.21	1	1.250		97.0	56.5	129				
Surr: Toluene-d8	1.25	5	1.250		100	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.23	3	1.250		98.7	63.1	141				



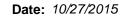


QC SUMMARY REPORT

CLIENT: PBS Engineering & Environmental

Project: Pike Place P	DA					Volatil	e Organ	ic Compou	nds by EP	A Metho	d 8260
Sample ID 1510170-014BDUP	SampType: DUP			Units: mg/k	(g-dry	Prep Da	te: 10/14/2	2015	RunNo: 254	498	
Client ID: BATCH	Batch ID: 12115					Analysis Da	te: 10/15/ 2	2015	SeqNo: 48	1125	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.0256						0		30	
Benzene	ND	0.0102						0		30	
Toluene	ND	0.0102						0		30	
Ethylbenzene	ND	0.0153						0		30	
m,p-Xylene	ND	0.0102						0		30	
o-Xylene	ND	0.0102						0		30	
Naphthalene	ND	0.0153						0		30	
Surr: Dibromofluoromethane	0.614		0.6389		96.1	56.5	129		0		
Surr: Toluene-d8	0.635		0.6389		99.4	64.3	131		0		
Surr: 1-Bromo-4-fluorobenzene	0.636		0.6389		99.5	63.1	141		0		

Sample ID 1510193-001BDUP	SampType: DUP			Units: mg/	Kg-dry	Prep Dat	te: 10/14/2	2015	RunNo: 25 4	198	
Client ID: B-1S	Batch ID: 12115					Analysis Dat	te: 10/15/2	2015	SeqNo: 481	1126	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.0570						0		30	
Benzene	ND	0.0228						0		30	
Toluene	ND	0.0228						0		30	
Ethylbenzene	ND	0.0342						0		30	
m,p-Xylene	ND	0.0228						0		30	
o-Xylene	ND	0.0228						0		30	
Naphthalene	ND	0.0342						0		30	
Surr: Dibromofluoromethane	1.37		1.425		95.9	56.5	129		0		
Surr: Toluene-d8	1.42		1.425		99.5	64.3	131		0		
Surr: 1-Bromo-4-fluorobenzene	1.41		1.425		98.6	63.1	141		0		

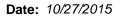




QC SUMMARY REPORT

CLIENT: PBS Engineering & Environmental

Project: Pike Place F	PDA					Volatil	e Organic Compou	ınds by EP	A Metho	d 8260
Sample ID 1510193-002BMS	SampType: MS			Units: mg/l	Kg-dry	Prep Da	te: 10/14/2015	RunNo: 254	498	
Client ID: B-2N	Batch ID: 12115					Analysis Da	te: 10/15/2015	SeqNo: 48	1127	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	1.37	0.0666	1.332	0	102	54.4	132			
Benzene	1.40	0.0266	1.332	0.02491	103	63.5	133			
Toluene	1.36	0.0266	1.332	0.01507	101	63.4	132			
Ethylbenzene	1.39	0.0400	1.332	0.003924	104	54.5	134			
m,p-Xylene	2.73	0.0266	2.665	0.01332	102	53.1	132			
o-Xylene	1.37	0.0266	1.332	0.003837	102	53.3	139			
Naphthalene	1.33	0.0400	1.332	0	100	52.3	124			
Surr: Dibromofluoromethane	1.74		1.665		105	56.5	129			
Surr: Toluene-d8	1.67		1.665		100	64.3	131			
Surr: 1-Bromo-4-fluorobenzene	1.70		1.665		102	63.1	141			





QC SUMMARY REPORT

CLIENT: PBS Engineering & Environmental

Volatile Petroleum Hydrocarbons by NWVPH

Sample ID LCS-12197	SampType: LCS			Units: mg/Kg		Prep Date:	10/22/2015	RunNo: 25	725	
Client ID: LCSS	Batch ID: 12197					Analysis Date:	10/23/2015	SeqNo: 48	5670	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit H	lighLimit RPD Ref Val	%RPD	RPDLimit	Qua
Aliphatic Hydrocarbon (C5-C6)	30.4	2.00	30.00	0	101	70	130			
Aliphatic Hydrocarbon (C6-C8)	8.68	2.00	10.00	0	86.8	70	130			
Aliphatic Hydrocarbon (C8-C10)	9.88	2.00	10.00	0	98.8	70	130			
Aliphatic Hydrocarbon (C10-C12)	11.3	2.00	10.00	0	113	70	130			
Aromatic Hydrocarbon (C8-C10)	43.9	2.00	40.00	0	110	70	130			
Aromatic Hydrocarbon (C10-C12)	9.75	2.00	10.00	0	97.5	70	130			
Aromatic Hydrocarbon (C12-C13)	7.67	2.00	10.00	0	76.7	70	130			
Surr: 1,4-Difluorobenzene	2.59		2.500		104	65	140			
Surr: Bromofluorobenzene	2.65		2.500		106	65	140			
Sample ID MB-12197	SampType: MBLK			Units: mg/Kg		Prep Date:	10/22/2015	RunNo: 25	725	
Client ID: MBLKS	Batch ID: 12197					Analysis Date:	10/23/2015	SeqNo: 48	5671	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit H	lighLimit RPD Ref Val	%RPD	RPDLimit	Qua
Aliphatic Hydrocarbon (C5-C6)	ND	2.00		0	0					
Aliphatic Hydrocarbon (C6-C8)	ND	2.00		0	0					
Aliphatic Hydrocarbon (C8-C10)	ND	2.00		0	0					
Aliphatic Hydrocarbon (C10-C12)	ND	2.00		0	0					
Aromatic Hydrocarbon (C8-C10)	ND	2.00		0	0					
Aromatic Hydrocarbon (C10-C12)	ND	2.00		0	0					
Aromatic Hydrocarbon (C12-C13)	ND	2.00		0	0					
Surr: 1,4-Difluorobenzene	1.98		2.500		79.1	65	140			
Surr: Bromofluorobenzene	2.25		2.500		89.9	65	140			
Sample ID 1510270-018BDUP	SampType: DUP			Units: mg/Kg-	dry	Prep Date:	10/22/2015	RunNo: 25	725	
Client ID: BATCH	Batch ID: 12197			, ,	-	Analysis Date:	10/23/2015	SeqNo: 48	5661	
	D II	RL	SPK value	SPK Ref Val	%REC	LowLimit H	lighLimit RPD Ref Val	%RPD	RPDLimit	Qua
Analyte	Result		0	0	70.120		•			
Analyte Aliphatic Hydrocarbon (C5-C6)	ND Result	0.941	0	0	0		0		25	

Date: 10/27/2015



Work Order: 1510193

QC SUMMARY REPORT

CLIENT: PBS Engineering & Environmental

Volatile Petroleum Hydrocarbons by NWVPH

Project:	Pike Place PDA

Sample ID 1510270-018BDUP	SampType: DUP			Units: mg/l	Kg-dry	Prep Da	te: 10/22/2	2015	RunNo: 25 7	725	
Client ID: BATCH	Batch ID: 12197					Analysis Da	te: 10/23/2	2015	SeqNo: 48	5661	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C8-C10)	ND	0.941		0	0			0		25	
Aliphatic Hydrocarbon (C10-C12)	ND	0.941		0	0			0		25	
Aromatic Hydrocarbon (C8-C10)	ND	0.941		0	0			0		25	
Aromatic Hydrocarbon (C10-C12)	ND	0.941		0	0			0		25	
Aromatic Hydrocarbon (C12-C13)	ND	0.941		0	0			0		25	
Surr: 1,4-Difluorobenzene	0.988		1.176		84.0	65	140		0		
Surr: Bromofluorobenzene	1.09		1.176		92.5	65	140		0	0	

Sample ID 1510227-005BMS	SampType: MS			Units: mg/k	Kg-dry	Prep Dat	te: 10/22/2	015	RunNo: 257	725	
Client ID: BATCH	Batch ID: 12197					Analysis Dat	te: 10/24/2	015	SeqNo: 485	5657	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C5-C6)	53.3	0.756	11.34	0	470	70	130				SE
Aliphatic Hydrocarbon (C6-C8)	8.57	0.756	3.780	0	227	70	130				S
Aliphatic Hydrocarbon (C8-C10)	5.48	0.756	3.780	0.8878	121	70	130				
Aliphatic Hydrocarbon (C10-C12)	14.2	0.756	3.780	11.57	69.3	70	130				S
Aromatic Hydrocarbon (C8-C10)	19.3	0.756	15.12	1.304	119	70	130				
Aromatic Hydrocarbon (C10-C12)	20.7	0.756	3.780	25.98	-141	70	130				SE
Aromatic Hydrocarbon (C12-C13)	22.3	0.756	3.780	27.20	-131	70	130				SE
Surr: 1,4-Difluorobenzene	0.834		0.9449		88.3	65	140				
Surr: Bromofluorobenzene	0.862		0.9449		91.3	65	140				
NOTES											

NOTES:

S - Analyte concentration was too high for accurate spike recoveries. The method is in control as demonstrated by the LCS.

Sample ID 1510227-005BMSD	SampType: MSD			Units: mg/	Kg-dry	Prep Dat	e: 10/22/2	2015	RunNo: 25 7	725	
Client ID: BATCH	Batch ID: 12197					Analysis Dat	e: 10/24/2	2015	SeqNo: 485	5658	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C5-C6)	46.9	0.756	11.34	0	414	70	130	53.29	12.7	30	S
Aliphatic Hydrocarbon (C6-C8)	8.37	0.756	3.780	0	222	70	130	8.573	2.35	30	S
Aliphatic Hydrocarbon (C8-C10)	5.83	0.756	3.780	0.8878	131	70	130	5.476	6.34	30	S

Date: 10/27/2015



Work Order: 1510193

QC SUMMARY REPORT

CLIENT: PBS Engineering & Environmental Pike Place PDA

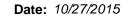
Volatile Petroleum Hydrocarbons by NWVPH

Sample ID 1510227-005BMSD	SampType: MSD			Units: mg/k	(g-dry	Prep Da	te: 10/22/2	2015	RunNo: 25	725	
Client ID: BATCH	Batch ID: 12197					Analysis Da	ite: 10/24/2	2015	SeqNo: 48	5658	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C10-C12)	16.1	0.756	3.780	11.57	120	70	130	14.19	12.7	30	
Aromatic Hydrocarbon (C8-C10)	20.5	0.756	15.12	1.304	127	70	130	19.26	6.02	30	
Aromatic Hydrocarbon (C10-C12)	26.9	0.756	3.780	25.98	24.7	70	130	20.66	26.3	30	SE
Aromatic Hydrocarbon (C12-C13)	19.4	0.756	3.780	27.20	-206	70	130	22.27	13.7	30	SE
Surr: 1,4-Difluorobenzene	0.828		0.9449		87.6	65	140		0		
Surr: Bromofluorobenzene	0.867		0.9449		91.8	65	140		0	0	

NOTES:

Project:

S - Analyte concentration was too high for accurate spike recoveries. The method is in control as demonstrated by the LCS.





Project:

QC SUMMARY REPORT

CLIENT: PBS Engineering & Environmental Pike Place PDA

Sample Moisture (Percent Moisture)

Sample ID 1510188-004ADUP	SampType: DUP	Units: wt%	Prep Date: 10/14/2015	RunNo: 25479
----------------------------------	----------------------	------------	-----------------------	---------------------

Analysis Date: 10/14/2015 SeqNo: 480845 Client ID: BATCH Batch ID: R25479

SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val Analyte Result %RPD RPDLimit Qual

Percent Moisture 12.3 0.500 12.73 3.70 20



Sample Log-In Check List

С	ient Name:	PBS	Work Order Number	er: 1510193	
Lo	ogged by:	Erica Silva	Date Received:	10/14/201	5 1:40:00 PM
Cha	in of Custo	<u>ody</u>			
1.	Is Chain of C	ustody complete?	Yes 🗹	No \square	Not Present
2.	How was the	sample delivered?	<u>Client</u>		
Log	In				
	Coolers are p	present?	Yes 🗸	No 🗌	NA 🗌
4.	Shipping cont	tainer/cooler in good condition?	Yes 🗹	No 🗌	
5.		s present on shipping container/cooler? nments for Custody Seals not intact)	Yes	No 🗌	Not Required ✓
6.	Was an atten	npt made to cool the samples?	Yes 🗸	No 🗌	NA \square
7.	Were all item	s received at a temperature of >0°C to 10.0°C*	Yes	No 🗸	na 🗆
		<u>Pleas</u>	se refer to Item Info	rmation	
8.	Sample(s) in	proper container(s)?	Yes 🗹	No 🗌	
9.	Sufficient san	mple volume for indicated test(s)?	Yes 🗸	No 🗌	
10.	Are samples	properly preserved?	Yes 🗸	No 🗌	
11.	Was preserva	ative added to bottles?	Yes	No 🗸	NA 🗌
12.	Is there head	space in the VOA vials?	Yes	No 🗆	NA 🔽
13.	Did all sample	es containers arrive in good condition(unbroken)?	Yes 🗹	No 🗌	
14.	Does paperw	ork match bottle labels?	Yes 🗹	No \square	
15.	Are matrices	correctly identified on Chain of Custody?	Yes 🗸	No 🗌	
16.	Is it clear wha	at analyses were requested?	Yes 🗹	No 🗌	
17.	Were all hold	ing times able to be met?	Yes 🗸	No 🗌	
Spe	cial Handli	ing (if applicable)			
		otified of all discrepancies with this order?	Yes	No 🗌	NA 🗹
	Person				
	By Who			one Fax	In Person
	Regardi		eMail Pho	ле 🗌 гах [
	_	nstructions:			
		,			
	Additional rer	narks:			
ltem	<u>Information</u>				

Item #	Temp ^o C
Cooler	17.7
Sample	18.0
Temp Blank	18.0

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

www.fremontanalytical.com

Day STD	TAT -> SameDay" NextDay" (2 Day) 3 Day 510		Date/Time		Received	į		Date/Time	De		Pelinquished
		0	1014/12 11:40	X io	A Control	λ	G. F.	P/1/4/12 1:40	10	5	The formation of
		on the following business day.		to are retained at	dust g pactence a	Lab (A lee may b	Disposal by Lab (A lee may be executed it ramples are returned after 10 days.)	to Chent	- Return to Client	177	Sample Dispusal
	Special Remarks	received after 4.00pm will begin	de Minate-Minae	16 Fjuoride	0-Phosphate	Bromide	Sufface	Chloride	se Nerse	cle): Nitrate	*** Anions (Circle):
	201	EN CH ON UN BM X SH ES	(4 (4 (5 (5 (4	AI AI B B3 80	legividuet Ag Al	3 TAL	Priority Pollutants	BCK4-8	MITCA-5	ysis (Circle):	**Metals Analysis (Circle):
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	Collected by: [7] - 1 1.		Le	Project No Location:					581	1	Client:
1		6/664 F	Project Name: Pr	101 171 101 101 101 101 101 101 101 101	11	Date:	86 0	Fax: 206-352-3790	Fax:	20186 W	Seattle, WA 98103
	1510193	Laboratory Project No (internal):	Laborator	-			W COST	TOURSELLE T		0000	
ecord	Chain of Custody Record	2					‡		2	Ţ	食
		2									



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

PBS Engineering & Environmental

Audrey McIvor 2517 Eastlake Ave, E #100 Seattle, WA 98102

RE: Pike Place PDA Lab ID: 1511246

November 25, 2015

Attention Audrey McIvor:

Fremont Analytical, Inc. received 3 sample(s) on 11/24/2015 for the analyses presented in the following report.

Gasoline by NWTPH-Gx
Sample Moisture (Percent Moisture)
Total Metals by EPA Method 6020
Volatile Organic Compounds by EPA Method 8260

This report consists of the following:

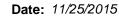
- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

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

Thank you for using Fremont Analytical.

Sincerely,

Chelsea Ward Project Manager





CLIENT: PBS Engineering & Environmental Work Order Sample Summary

Project: Pike Place PDA

Lab Order: 1511246

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1511246-001	FG-1N	11/24/2015 8:00 AM	11/24/2015 8:56 AM
1511246-002	FG-2E	11/24/2015 8:10 AM	11/24/2015 8:56 AM
1511246-003	FG-3W	11/24/2015 8:20 AM	11/24/2015 8:56 AM



Case Narrative

WO#: **1511246**Date: **11/25/2015**

CLIENT: PBS Engineering & Environmental

Project: Pike Place PDA

WorkOrder Narrative:

I. SAMPLE RECEIPT:

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

II. GENERAL REPORTING COMMENTS:

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

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

III. ANALYSES AND EXCEPTIONS:

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



Qualifiers & Acronyms

WO#: **1511246**

Date Reported: 11/25/2015

Qualifiers:

- * Flagged value is not within established control limits
- B Analyte detected in the associated Method Blank
- D Dilution was required
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- I Analyte with an internal standard that does not meet established acceptance criteria
- J Analyte detected below Reporting Limit
- N Tentatively Identified Compound (TIC)
- Q Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S Spike recovery outside accepted recovery limits
- ND Not detected at the Reporting Limit
- R High relative percent difference observed

Acronyms:

%Rec - Percent Recovery

CCB - Continued Calibration Blank

CCV - Continued Calibration Verification

DF - Dilution Factor

HEM - Hexane Extractable Material

ICV - Initial Calibration Verification

LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate

MB or MBLANK - Method Blank

MDL - Method Detection Limit

MS/MSD - Matrix Spike / Matrix Spike Duplicate

PDS - Post Digestion Spike

Ref Val - Reference Value

RL - Reporting Limit

RPD - Relative Percent Difference

SD - Serial Dilution

SGT - Silica Gel Treatment

SPK - Spike

Surr - Surrogate



Analytical Report

WO#: **1511246**

Date Reported: 11/25/2015

Client: PBS Engineering & Environmental Collection Date: 11/24/2015 8:00:00 AM

Project: Pike Place PDA

Lab ID: 1511246-001 **Matrix:** Soil

Client Sample ID: FG-1N

Analyses	Result	RL	Qual	Units	DF	- Da	te Analyzed
Gasoline by NWTPH-Gx				Batch	ID:	12478	Analyst: BC
Gasoline	ND	8.14		mg/Kg-dry	1	11/2	5/2015 7:00:00 AM
Surr: 4-Bromofluorobenzene	92.0	65-135		%Rec	1	11/2	5/2015 7:00:00 AM
Surr: Toluene-d8	93.1	65-135		%Rec	1	11/2	5/2015 7:00:00 AM
Volatile Organic Compounds by	EPA Method	<u>8260</u>		Batch	ID:	12478	Analyst: BC
Benzene	ND	0.0326		mg/Kg-dry	1	11/2	5/2015 7:00:00 AM
Toluene	ND	0.0326		mg/Kg-dry	1	11/2	5/2015 7:00:00 AM
Ethylbenzene	ND	0.0489		mg/Kg-dry	1	11/2	5/2015 7:00:00 AM
m,p-Xylene	ND	0.0326		mg/Kg-dry	1	11/2	5/2015 7:00:00 AM
o-Xylene	ND	0.0326		mg/Kg-dry	1	11/2	5/2015 7:00:00 AM
Naphthalene	ND	0.0489		mg/Kg-dry	1	11/2	5/2015 7:00:00 AM
Surr: Dibromofluoromethane	88.4	56.5-129		%Rec	1	11/2	5/2015 7:00:00 AM
Surr: Toluene-d8	94.4	64.3-131		%Rec	1	11/2	5/2015 7:00:00 AM
Surr: 1-Bromo-4-fluorobenzene	94.6	63.1-141		%Rec	1	11/2	5/2015 7:00:00 AM
Total Metals by EPA Method 602	<u>20</u>			Batch	ID:	12456	Analyst: TN
Lead	14.3	0.207		mg/Kg-dry	1	11/2	4/2015 4:27:35 PM
Sample Moisture (Percent Moist	ture)			Batch	ID:	R26272	Analyst: CG
Percent Moisture	25.0	0.500		wt%	1	11/2	4/2015 3:03:57 PM



Analytical Report

WO#: **1511246**

Date Reported: 11/25/2015

Client: PBS Engineering & Environmental Collection Date: 11/24/2015 8:10:00 AM

Project: Pike Place PDA

Lab ID: 1511246-002 **Matrix:** Soil

Client Sample ID: FG-2E

Analyses	Result	RL	Qual	Units	DF	Da	te Analyzed
Gasoline by NWTPH-Gx				Batch	ID:	12478	Analyst: BC
Gasoline	ND	7.39		mg/Kg-dry	1	11/2	5/2015 7:29:00 AM
Surr: 4-Bromofluorobenzene	91.3	65-135		%Rec	1	11/2	5/2015 7:29:00 AM
Surr: Toluene-d8	93.0	65-135		%Rec	1	11/2	5/2015 7:29:00 AM
Volatile Organic Compounds by	EPA Method	<u>8260</u>		Batch	ID:	12478	Analyst: BC
Benzene	ND	0.0296		mg/Kg-dry	1	11/2	5/2015 7:29:00 AM
Toluene	ND	0.0296		mg/Kg-dry	1	11/2	5/2015 7:29:00 AM
Ethylbenzene	ND	0.0443		mg/Kg-dry	1	11/2	5/2015 7:29:00 AM
m,p-Xylene	ND	0.0296		mg/Kg-dry	1	11/2	5/2015 7:29:00 AM
o-Xylene	ND	0.0296		mg/Kg-dry	1	11/2	5/2015 7:29:00 AM
Naphthalene	ND	0.0443		mg/Kg-dry	1	11/2	5/2015 7:29:00 AM
Surr: Dibromofluoromethane	88.1	56.5-129		%Rec	1	11/2	5/2015 7:29:00 AM
Surr: Toluene-d8	95.0	64.3-131		%Rec	1	11/2	5/2015 7:29:00 AM
Surr: 1-Bromo-4-fluorobenzene	93.6	63.1-141		%Rec	1	11/2	5/2015 7:29:00 AM
Total Metals by EPA Method 602	20			Batch	ID:	12456	Analyst: TN
Lead	9.83	0.228		mg/Kg-dry	1	11/2	4/2015 4:31:06 PM
Sample Moisture (Percent Moist	ture)			Batch	ID:	R26272	Analyst: CG
Percent Moisture	28.7	0.500		wt%	1	11/2	4/2015 3:03:57 PM



Analytical Report

WO#: **1511246**

Date Reported: 11/25/2015

Client: PBS Engineering & Environmental Collection Date: 11/24/2015 8:20:00 AM

Project: Pike Place PDA

Lab ID: 1511246-003 **Matrix:** Soil

Client Sample ID: FG-3W

Analyses	Result	RL	Qual	Units	DF	Date	e Analyzed
Gasoline by NWTPH-Gx				Batch	ı ID:	12478	Analyst: BC
Gasoline	ND	6.90		mg/Kg-dry	1	11/25/	2015 7:57:00 AM
Surr: 4-Bromofluorobenzene	91.6	65-135		%Rec	1	11/25/	2015 7:57:00 AM
Surr: Toluene-d8	92.6	65-135		%Rec	1	11/25/	2015 7:57:00 AM
Volatile Organic Compounds by	EPA Method	<u>8260</u>		Batch	ID:	12478	Analyst: BC
Benzene	ND	0.0276		mg/Kg-dry	1	11/25/	2015 7:57:00 AM
Toluene	ND	0.0276		mg/Kg-dry	1	11/25/	2015 7:57:00 AM
Ethylbenzene	ND	0.0414		mg/Kg-dry	1	11/25/	2015 7:57:00 AM
m,p-Xylene	ND	0.0276		mg/Kg-dry	1	11/25/	2015 7:57:00 AM
o-Xylene	ND	0.0276		mg/Kg-dry	1	11/25/	2015 7:57:00 AM
Naphthalene	ND	0.0414		mg/Kg-dry	1	11/25/	2015 7:57:00 AM
Surr: Dibromofluoromethane	88.4	56.5-129		%Rec	1	11/25/	2015 7:57:00 AM
Surr: Toluene-d8	94.4	64.3-131		%Rec	1	11/25/	2015 7:57:00 AM
Surr: 1-Bromo-4-fluorobenzene	94.0	63.1-141		%Rec	1	11/25/	2015 7:57:00 AM
Total Metals by EPA Method 602	<u>o</u>			Batch	ı ID:	12456	Analyst: TN
Lead	14.7	0.203		mg/Kg-dry	1	11/24/	2015 4:34:38 PM
Sample Moisture (Percent Moist	ure)			Batch	ı ID:	R26272	Analyst: CG
Percent Moisture	27.1	0.500		wt%	1	11/24/	2015 3:03:57 PM

Date: 11/25/2015

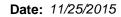


Work Order: 1511246

QC SUMMARY REPORT

CLIENT: PBS Engineering & Environmental

Project:	Pike Place	PDA							Total Me	tals by EP	A Metho	d 6020
Sample ID	MB-12456	SampType: MBLK			Units: mg/Kg		Prep Date:	11/24/20	15	RunNo: 262	279	
Client ID:	MBLKS	Batch ID: 12456					Analysis Date:	11/24/20	15	SeqNo: 496	6216	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit H	lighLimit F	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		ND	0.200									
Sample ID	LCS-12456	SampType: LCS			Units: mg/Kg		Prep Date:	11/24/20	15	RunNo: 262	279	
Client ID:	LCSS	Batch ID: 12456					Analysis Date:	11/24/20	15	SeqNo: 496	6217	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit H	lighLimit F	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		25.1	0.200	25.00	0	101	80	120				
Sample ID	1511223-025ADUP	SampType: DUP			Units: mg/Kg		Prep Date:	11/24/20	15	RunNo: 262	279	
Client ID:	BATCH	Batch ID: 12456					Analysis Date:	11/24/20	15	SeqNo: 496	6219	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit H	lighLimit F	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		6.38	0.163						6.298	1.33	20	
Sample ID	1511223-025AMS	SampType: MS			Units: mg/Kg		Prep Date:	11/24/20	15	RunNo: 262	279	
Client ID:	ВАТСН	Batch ID: 12456					Analysis Date:	11/24/20	15	SeqNo: 496	6221	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit H	lighLimit F	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		26.9	0.163	20.33	6.298	101	75	125				
Sample ID	1511223-025AMSD	SampType: MSD			Units: mg/Kg		Prep Date:	11/24/20	15	RunNo: 262	279	
Client ID:	ВАТСН	Batch ID: 12456					Analysis Date:	11/24/20	15	SeqNo: 496	6222	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit H	lighLimit F	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		27.1	0.167	20.83	6.298	100	75	125	26.86	1.03	20	



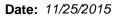


QC SUMMARY REPORT

CLIENT: PBS Engineering & Environmental

Gasoline by NWTPH-Gx

Project: Pike Place	PDA								Gasoline	by NW I	PH-G
Sample ID LCS-12478	SampType: LCS			Units: mg/Kg		Prep Date	: 11/24/2	2015	RunNo: 26 2	296	
Client ID: LCSS	Batch ID: 12478					Analysis Date	: 11/24/2	2015	SeqNo: 49	6551	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit I	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	24.4	5.00	25.00	0	97.5	65	135				
Surr: Toluene-d8	1.16		1.250		92.9	65	135				
Surr: 4-Bromofluorobenzene	1.14		1.250		91.6	65	135				
Sample ID MB-12478	SampType: MBLK			Units: mg/Kg		Prep Date	: 11/24/2	2015	RunNo: 26	296	
Client ID: MBLKS	Batch ID: 12478					Analysis Date	: 11/24/2	2015	SeqNo: 49	6552	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	ND	5.00									
Surr: Toluene-d8	1.16		1.250		92.6	65	135				
Surr: 4-Bromofluorobenzene	1.15		1.250		91.7	65	135				
Sample ID 1511210-004BDUP	SampType: DUP			Units: mg/Kg-	dry	Prep Date	: 11/24/2	2015	RunNo: 26	296	
Client ID: BATCH	Batch ID: 12478					Analysis Date	: 11/25/2	2015	SeqNo: 49	6530	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit I	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	ND	5.42						0		30	
Surr: Toluene-d8	1.26		1.354		93.0	65	135		0		
Surr: 4-Bromofluorobenzene	1.23		1.354		91.1	65	135		0		
Sample ID 1511252-001BDUP	SampType: DUP			Units: mg/Kg-	dry	Prep Date	: 11/24/2	2015	RunNo: 26	296	
Client ID: BATCH	Batch ID: 12478					Analysis Date	: 11/25/2	2015	SeqNo: 49	6542	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	ND	4.52						0		30	
Surr: Toluene-d8	1.06		1.129		93.6	65	135		0		
Surr: 4-Bromofluorobenzene	1.04		1.129		91.7	65	135		0		



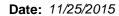


QC SUMMARY REPORT

CLIENT: PBS Engineering & Environmental

Volatile Organic Compounds by EPA Method 8260

Project: Pike Place P	PDA					voiatile	Organ	ic Compou	nas by EP	A Wetho	a 820
Sample ID LCS-12478	SampType: LCS			Units: mg/Kg		Prep Date	: 11/24/2	2015	RunNo: 262	294	
Client ID: LCSS	Batch ID: 12478					Analysis Date	: 11/24/2	2015	SeqNo: 496	5513	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.925	0.0200	1.000	0	92.5	64.3	133				
Toluene	0.974	0.0200	1.000	0	97.4	67.3	138				
Ethylbenzene	0.995	0.0300	1.000	0	99.5	74	129				
m,p-Xylene	1.97	0.0200	2.000	0	98.7	79.8	128				
o-Xylene	0.996	0.0200	1.000	0	99.6	72.7	124				
Naphthalene	1.00	0.0300	1.000	0	100	62.3	134				
Surr: Dibromofluoromethane	1.23		1.250		98.1	56.5	129				
Surr: Toluene-d8	1.16		1.250		93.0	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.20		1.250		96.0	63.1	141				
Sample ID MB-12478	SampType: MBLK			Units: mg/Kg		Prep Date	: 11/24/2	2015	RunNo: 262	294	
Client ID: MBLKS	Batch ID: 12478					Analysis Date	: 11/24/2	2015	SeqNo: 496	514	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.0200									
Toluene	ND	0.0200									
Ethylbenzene	ND	0.0300									
m,p-Xylene	ND	0.0200									
o-Xylene	ND	0.0200									
Naphthalene	ND	0.0300									
Surr: Dibromofluoromethane	1.12		1.250		90.0	56.5	129				
Surr: Toluene-d8	1.16		1.250		93.0	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.18		1.250		94.2	63.1	141				
Sample ID 1511210-004BDUP	SampType: DUP			Units: mg/Kg-	dry	Prep Date	: 11/24/2	2015	RunNo: 262	294	
Client ID: BATCH	Batch ID: 12478					Analysis Date	: 11/25/2	2015	SeqNo: 496	6496	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qua
Benzene	ND	0.0217						0		30	



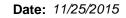


QC SUMMARY REPORT

CLIENT: PBS Engineering & Environmental

Volatile Organic Compounds by EPA Method 8260

Sample ID 1511210-004BDUP	SampType: DUP			Units: mg/	Ka-drv	Prep Dat	e: 11/24/ 2	2015	RunNo: 26 2	294	
Client ID: BATCH	Batch ID: 12478			omio. mg/	ng ary	Analysis Dat			SeqNo: 49 6		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	ND	0.0325						0		30	
m,p-Xylene	ND	0.0217						0		30	
o-Xylene	ND	0.0217						0		30	
Naphthalene	ND	0.0325						0		30	
Surr: Dibromofluoromethane	1.20		1.354		88.3	56.5	129		0		
Surr: Toluene-d8	1.27		1.354		93.8	64.3	131		0		
Surr: 1-Bromo-4-fluorobenzene	1.27		1.354		93.5	63.1	141		0		
Sample ID 1511252-001BDUP	SampType: DUP			Units: mg/	Kg-dry	Prep Dat	e: 11/24/ 2	2015	RunNo: 262	 294	
Client ID: BATCH	Batch ID: 12478					Analysis Dat	e: 11/25/ 2	2015	SeqNo: 496	8509	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.0181						0		30	
Toluene	ND	0.0181						0		30	
Ethylbenzene	ND	0.0271						0		30	
m,p-Xylene	ND	0.0181						0		30	
o-Xylene	ND	0.0181						0		30	
Naphthalene	ND	0.0271						0		30	
Surr: Dibromofluoromethane	0.991		1.129		87.8	56.5	129		0		
Surr: Toluene-d8	1.07		1.129		95.2	64.3	131		0		
Surr: 1-Bromo-4-fluorobenzene	1.06		1.129		94.3	63.1	141		0		
Sample ID 1511252-004BMS	SampType: MS			Units: mg/	Kg-dry	Prep Dat	e: 11/24/ 2	2015	RunNo: 262	 294	
Client ID: BATCH	Batch ID: 12478					Analysis Dat	e: 11/25/ 2	2015	SeqNo: 496	5620	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qua
Benzene	0.819	0.0169	0.8442	0	97.0	63.5	133				
Toluene	0.867	0.0169	0.8442	0	103	63.4	132				
Ethylbenzene	0.867	0.0253	0.8442	0	103	54.5	134				
m,p-Xylene	1.72	0.0169	1.688	0	102	53.1	132				





QC SUMMARY REPORT

CLIENT: PBS Engineering & Environmental

Volatile Organic Compounds by EPA Method 8260

Project: Pike Place F	PDA					Volatil	e Organi	c Compou	nds by EP	A Metho	d 8260
Sample ID 1511252-004BMS	SampType: MS			Units: mg/k	(g-dry	Prep Da	te: 11/24/2	015	RunNo: 262	294	
Client ID: BATCH	Batch ID: 12478					Analysis Da	te: 11/25/2	015	SeqNo: 496	6620	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
o-Xylene	0.856	0.0169	0.8442	0	101	53.3	139				
Naphthalene	0.840	0.0253	0.8442	0	99.5	52.3	124				
Surr: Dibromofluoromethane	1.03		1.055		97.8	56.5	129				
Surr: Toluene-d8	1.02		1.055		96.4	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.03		1.055		97.7	63.1	141				

Date: 11/25/2015



Work Order: 1511246

Project:

QC SUMMARY REPORT

CLIENT: PBS Engineering & Environmental Pike Place PDA

Sample Moisture (Percent Moisture)

Sample ID 1511246-001ADUP	SampType: DUP	Units: wt%	Prep Date:	11/24/2015	RunNo: 26272
---------------------------	----------------------	------------	------------	------------	---------------------

Analysis Date: 11/24/2015 SeqNo: 496045 Client ID: FG-1N Batch ID: **R26272**

%REC LowLimit HighLimit RPD Ref Val Analyte Result RL SPK value SPK Ref Val %RPD RPDLimit Qual Percent Moisture 25.7 0.500 24.98 2.87 20

Sample ID 1511252-003ADUP	SampType: DUP			Units: wt%	Prep Date: 11/24/2015 RunNo: 26272
Client ID: BATCH	Batch ID: R26272				Analysis Date: 11/24/2015 SeqNo: 496055
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
D. (M.)	10.1	0.500			40.47



Sample Log-In Check List

CI	ient Name:	PBS	Work Order Numb	per: 1511246	
Lo	gged by:	Clare Griggs	Date Received:	11/24/201	5 8:56:00 AM
Cha	in of Custo	<u>ody</u>			
1.	Is Chain of C	ustody complete?	Yes 🗹	No \square	Not Present
2.	How was the	sample delivered?	Client		
Log	In				
	Coolers are p	resent?	Yes 🗸	No 🗌	NA 🗆
4.	Shipping cont	tainer/cooler in good condition?	Yes 🗹	No 🗌	
5.		s present on shipping container/cooler? Iments for Custody Seals not intact)	Yes	No \square	Not Required ✓
6.	Was an atten	npt made to cool the samples?	Yes 🗹	No 🗌	NA 🗌
7.	Were all item	s received at a temperature of >0°C to 10.0°C*	Yes 🗹	No 🗌	na 🗆
8.	Sample(s) in	proper container(s)?	Yes 🗹	No 🗌	
9.	Sufficient san	nple volume for indicated test(s)?	Yes 🗹	No 🗌	
10.	Are samples	properly preserved?	Yes 🗹	No 🗌	
11.	Was preserva	ative added to bottles?	Yes	No 🗸	NA 🗆
12.	Is there head	space in the VOA vials?	Yes	No 🗆	NA 🗹
13.	Did all sample	es containers arrive in good condition(unbroken)?	Yes 🗹	No 🗆	
14.	Does paperw	ork match bottle labels?	Yes 🗹	No 🗌	
15.	Are matrices	correctly identified on Chain of Custody?	Yes 🗹	No 🗌	
16.	Is it clear wha	at analyses were requested?	Yes 🗸	No 🗌	
17.	Were all hold	ing times able to be met?	Yes 🗸	No 🗌	
Spe	cial Handli	ing (if applicable)			
18.	Was client no	otified of all discrepancies with this order?	Yes	No 🗌	NA 🗹
	Person	Notified: Date			
	By Who	m: Via:	eMail Ph	one Fax	In Person
	Regardi				
	_	structions:			
19.	Additional rer	r			
ltem	Information				

Item #	Temp ºC
Cooler	7.3
Sample	7.8

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

www.fremontanalytical.com

TAT - SameDay" NextDay" 2 Day 3 Day STD		1	9					
6	5:8 SIAZAII ~	white aux	1	ľ	8:56	11/24/15 8:56	3	Simple Si
		es are retained after 30 cars.)	Bredshard Samp	Disposal by Lab (A fee may be	Dispose	Return to Client Cate/Time	O Person	elloquished
Special Remarks:	received after 4:00pm will begin	le Plugride Nitrate+Mitrite	e O-Phosphate	e Bromide	e Sulfate	Nitrite Chloride	(Circle): Nizzate	**Anions (Circle):
No N (₹) 50 5e 5r 5n 17 17 17 2m	Cu Fe Hg K Mg Min Mo No Ni P	Al 45 8 8a 8e Ca Cd Co Cr	Individual Ag	lants TAL	Priority Pollutants	MTCA-S RCPA-S	**Metals Analysis (Circle): MI	Metals A
								o.
	8	κ.	×	(35	8.20	11/29	-3W	F6
	8	*	x	.8	0.5	11/24	5-2E	FG
1 1 1 1 1 1 E	8		×	1.9	8.00	11/24	-G-IN	FG
Comments	Solida So		Se legando de la	Sample Type (Matrix)*	Sample	Sample	Name	Sample Name
SW = Storm Water, WW = Waste Water	GW = Ground Water,	St. = Solid, W = Water, DW = Drinking Water,	SD = Sedment, S	oduct, 5 - Soil	Other, P = Pro	AQ = Aqueous, B = Bulk, O = Other, P = Product,	A = Air,	Matra Codes
1. Bagiey	A. MILINOTIM. B	Report To (PM): PM Email:			Fax:	830-8354	360	City, State, Zip: Telephone:
collected by M. Bay 184	1	Project No. 45				Sentic	11-	Client: Address:
	- Plus #	124/15	Date: 11/	L	86	Tel: 206-352-3790 Fax: 206-352-7178	3600 Fremont Ave N. Seattle, WA 98103	3600 Fr
511246	abaratory Project No (internal): 15	Lab	H		1	emont	TI	5
nin of Control Day	2						191/9	A INC.





SITE CHECK/SITE ASSESSMENT CHECKLIST

FOR UNDERGROUND STORAGE TANKS

County: KING

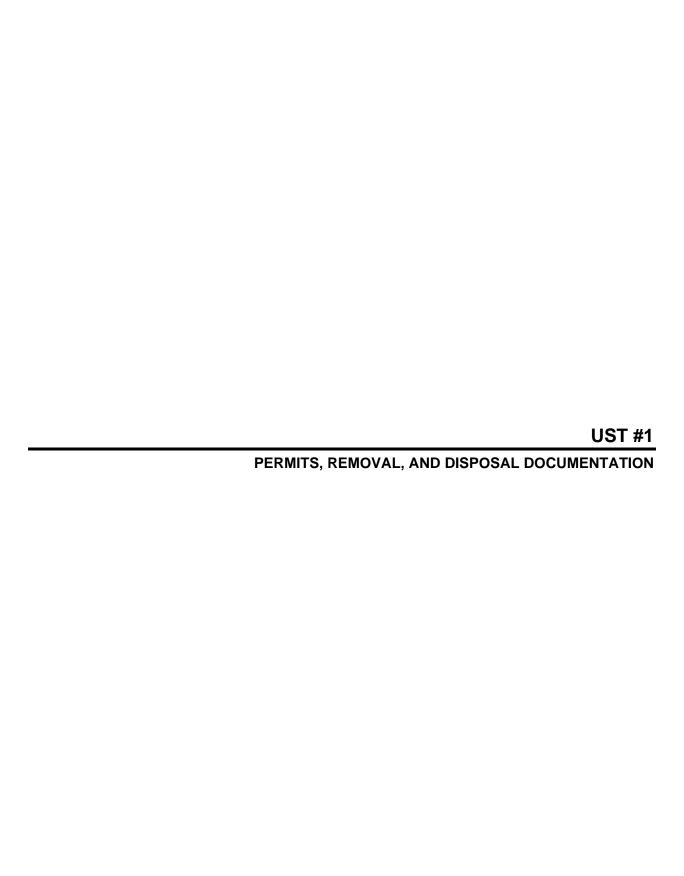
UST ID #: <u>N/₩</u>

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 #: \wp/γ	Owner/Operator Name: PIKE PLACE MARKET PO
UST ID #: N/A	Business Name: \mathcal{N}/\mathcal{A}
Site Name: PIKE PLACE DEVELOPMENT	Address: 85 PIKE STREET, ROOM 500
Site Address: 1901 Western Avenue	City: SCAME State: WA Zip: 98101
City: Seattle	Phone: 206.793.6547
Phone: NA	Email: cholmes to axispud.com
III. CERTIFIED	SITE ASSESSOR
Service Provider Name: TOM # / SCHIRMER-UST #2	Company Name: MARINE VACUUM SERVICES
Cell Phone: 206.762.0240 Email: tmyler & marinevacuum.com mikes & marinevacuum.com	"Address: 1516 S. Graham St
Certification #: Exp. Date: NAKE 1/28/30	
IV. TANK IN	FORMATION
TANK ID TANK CAPACITY	LAST SUBSTANCE STORED DATE SITE CHECK OR ASSESSMENT CONDUCTED
UST #1 500 (1	VLENDGASOLINE 9/11/2015
UST #2 1200 LE	AD CIASOLINE 9/28/2015
	·
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	e tightness test.
☐ Release investigation following discovery of contamina	ted 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 gasoline) to storing a non-regulated substance (e.g. wa	
☐ Directed by Ecology for UST system permanently close	d or abandoned before 12/22/1988.
	I

	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 Guidance for Site Checks and Site Assessments for Underground Storage Tanks.	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)	X	
3.	A summary of UST system data is provided (Section 3.1)	囟	
4.	The soils characteristics at the UST site are described. (Section 5.2)	Ä	
5.	Is there any apparent groundwater in the tank excavation?		囟
6.	A brief description of the surrounding land use is provided. (Section 3.1)	X	
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.	X	
8.	The following items are provided in one or more sketches:	••••	
	Location and ID number for all field samples collected	Ì	
	• If applicable, groundwater samples are distinguished from soil samples \mathbb{N}/\mathbb{R}		
	Location of samples collected from stockpiled excavated soil	凶	
	Tank and piping locations and limits of excavation pit	Ä	
	Adjacent structures and streets	Ø	
	Approximate locations of any on-site and nearby utilities	X	
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.	対	
11.	Any factors that may have compromised the quality of the data or validity of the results are described.	冱	
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.	SELL BELL	П
	VII. REQUIRED SIGNATURES Signature acknowledges the Site Check or Site Assessment complies with UST regulations WAC 173-360-360 through -		
	ANDREY MICTURE Ond the 10/19	/20	5
Prin	t or Type Name Signature of Certified Site Assessor Date	7	

QUESTION YES - UST #2 #12, NO - UST #1



DEPARTMENT OF ECOLOGY State of Washington

30-DAY NOTICE FOR UNDERGROUND STORAGE TANKS

UST ID #:	
County:	KING

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 appro	opriate box:	Intent to Inst	tall 📗	Intent 1	to Close [Change-in-Ser	vice	
	L.Shellyforiy	MOITA			III.O)WNER	/Opervationaline	ORIMATIIO	N
Tag or UBI # (if app	olicable): 🄀	1		Owner	Operator Nam	ne: Carrie Ho	olmes	
UST ID # (if applica	ble): N/A				ss Name: 🎤			representati
Site Name: PN	KE PLACE P	Ad		Mailing	Address: Plk	KE PLACE PDA	J900-P	48 Pike S
Site Address: 9	01 Western	r Avenue		City:	Seattle	State	:: WA =	zip: Room 5
city: Seattle	,			Phone:	206.7	13.6547		98101
Phone: N/A	Construcțio	<i>sitc</i>		Email:		a axispnd.	com	
					(OMDER(S)			
	- Check t	he appropriate bo for th	xes llimor s project, f			er Is required		
		uals performing er qualifying exc				ied or have passe of Ecology.	ed	
1) 🔲 Installer	Decom	ımissioner:] Site Asse	essor				
Company Name:	MAR-VE	10		Certifica	ation Type: U	ST Decomni	ssionin	9 (10)11/2018
Service Provider Na	ame: Tho	mas Myla	er (amarine Vacuum,		
Provider Phone:	_	2.0240		Provide	r Email:	ot listed on ia	Com	٠ , ١
2) 🛄 Installer	☐ Decom	missioner 🍃	Site Asse	ssor		y (Astew ple	- (00331	
Company Name: 7	BS Enginee	ring & Environ	mental	Certifica	ation Type:	VA Site Ass	essor	
Service Provider Na	ome: And	reyMelvo	r	Cert. No	.: 8345	857	Exp. Date	: 4/25/201
Provider Phone:	206.348.1			Provide	r Email: Qud	lrey. Mcivor 7	aphse	nv.com
			/. TANK li	VIEO/RIMAV	IION			
TANK ID	SUBSTANCE STORED	TANK CAPACITY	DATE PRO EXPECTI BEG	ED TO		Comments	6	
	GAS	2000 ga	9/11/2	2015	Dis	covered al	rando	ned
	·					nk durin		~
		,			by Se	llen Const	nuction	~,
					Emergen	cy removal L will be	.Seattl	e Fire
					Marsha	e will be	On-51	te.

Requesting a waiver from the 30-DAY NOTICE REGULAREMENT

This Memorandum

is an acknowledgment that a Bill of Lading has been issued and is not Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

Shipper No.	025413
Carrier No.	#204

5. 27 26 27	THE REAL PROPERTY.	STREET, STREET	W 200 W.	CHARLES	of the first	Art. Name
NU-SIN	WINGE.	VACU	UIM	SEM	Music.	INE

Page	of	(Name o		(SCAC)	D	ate	1.2015
ro.		"COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1,	FROM: Shipper	NYIROMEX	STA C		
Street 1518	S. GR	AHAM ST	City	At to	State	A Zip Code	
Dity SEAT	LE	State WA Zip Code 98108	24 hr. Emergency C	Contact Tel. No.		0-7491	
Route						Vehicle Number	
No. of Units & Container Type	HM	BASIC DESCRIPTION UN or NA Number, Proper Shipping Name, Hazard Clas	s, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIG (Subject Correct	t to RATE	CHARGES (For Carrier Use Only)
		Pum Pand 3x Ple	Rive				
		Tank Water a	ash				
		Water		300	GAL		
			_				
			-				
		See Property					
PLAC	RDS TE	NDERED: YES 🖂 NO 🖂	REMIT C.O.D. TO:				V
specifically in writing the agreed or declared value be not exceeding	agreed or dec of the property ariff provisions s claration by the	ent on value, shippers are required to state lared value of the property, as follows: "The is hereby specifically stated by the shipper to serious per pecify a limitation of the carrier's liability absent a shipper and the shipper does not release in all respects in proper condition."	ADDRESS ely ng ed dare for	Amt: \$		C.O.D. FEE: PREPAID COLLECT \$	
provided by such provision (3) Commodities requiring must be so marked and p	s. See NMFC II special or add ackaged as to e Freight Bills an	e carrier's liability shall be limited to the extent em 172. em 172. itional care or attention in handling or stowing international and national government and seal transportation. See Section 2(e) of distalements of Charges and Section 1(a) of	Subject to Section 7 of the call all consignee without recourse following statement: The carrier shall not ma freight and all other lawful ch	conditions, if this shipment is to be on the consignor, the consignor sake delivery of this shipment withour arges. (Signature of Consignor)	shall sign the ut payment of	TOTAL CHARGES \$ FREIGHT CHAF FREIGHT PREPAID Che except when box at right is checked	IGES ick box if charges are to be collect
the poss	roperty describe of packages un word carrier beli ession of the pro n, if on its route,	to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, and above in apparent good order, except as noted (contents and condition of con-kinown), marked, consigned, and destined as indicated above which said carrier ng understood throughout this contract as meaning any person or corporation in perty under the contract) agrees to carry to its usual place of delivery at said destidential or the contract of	be performed hereunde sification on the date Shipper hereby	certifies that he is familiar with a on and the said terms and condition	ng terms and condi all the lading terr	tions in the governing clas ns and conditions in th	e
SHIPPER	1,000	x 5- f- C	CARRIER	ABINE VACIN	IM-SE	BÁICE IN	0

PER

DATE

STYLE F375-4 © 2012 LABEL ASTER (800) 621-5808 www.labelmaster.com

40609.001

SHIPPER

PER

Marine Vacuum Service, Inc.

GENERAL CONTRACTOR
CONTRACTORS LICENSE # MARINVS097JA

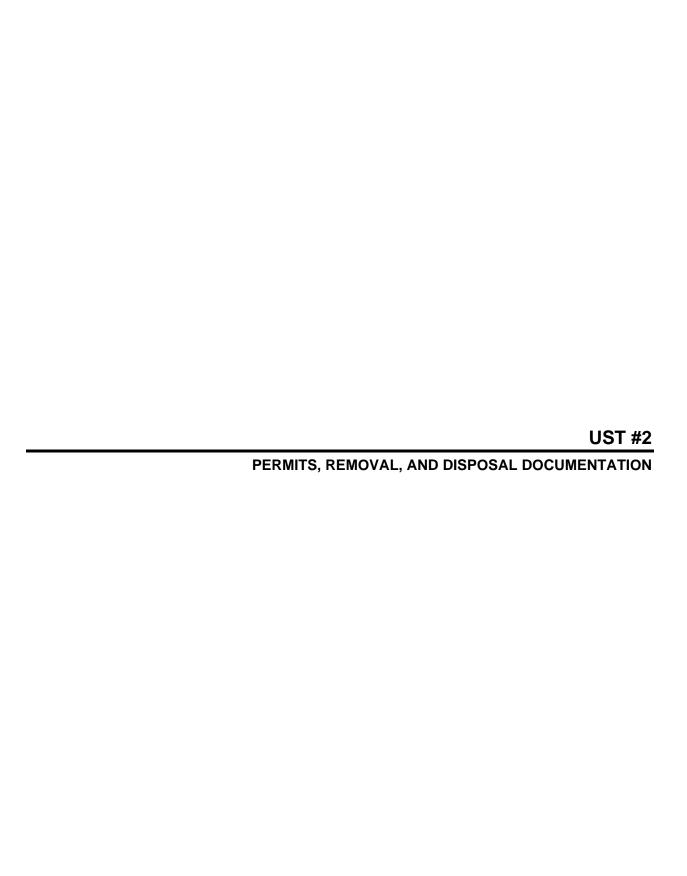
P0. Box 24263 Seattle, Washington 98124
Telephone (206) 762-0240
FAX (206) 763-8084
1-800-540-7491

AST/UST STORAGE TANK PUMP & RINSE CERTIFICATE

Tank Size:	500 GAC	
Last Contents	unter	
Tank Location:	1901 Western AVE	
	Sealle WA	_
accordance with 380(I), API 16 accordance with	n Service, Inc. certifies that the above mentioned tank(s) h the industry standard as outlined in 40 CFR PART 280, 04, API 2015 and that all residual product and rinsate hat Federal, State and Local regulations. Tanks listed above FOR HOT WORK	70, WAC 173-360- s been disposed of in
Tank Owner:		
Contractor:	selen, fral	
M.V.S. Represe	entative: <u>Safm////////////////////////////////////</u>	
Date:9	11-2015	
Notes:		

DBE # D4M1302341

EPA # WAD980974521



DEPARTMENT OF ECOLOGY State of Washington

30-DAY NOTICE

FOR UNDERGROUND STORAGE TANKS

UST ID #:	
County	KING

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 app	propriate box:	Intent to Ins	tall 🔀	Intent	to Close	Change-in-	Service			
	I. SITE INFORT	MATION	N. WARE		II. OWNER/	OPERATOR	INFORMAT	ON		
Tag or UBI # (if a	pplicable): 10/	n		Owner/Operator Name: Carrie Holmes -						
UST ID # (if applic	cable): NA			Busine	ess Name: PIKE	PLACE PI	DIA AV	thorized owner representative		
Site Name: PIV	CE PLACE PI)A			g Address: ४५					
Site Address:	901 Wester	n Avenue		City:	SEATTLE	St	ate: WA	zip: 98101		
City: Seatt	te			Phone	: 206,70	13.654	7			
Phone: N/A	Construcțio	n Site		Email:	cholmes	D'axi	spnd.c	om		
	Check	the appropriate bo	oxes. If mor	e than o	ROVIDER(S) The service provider the sections.	is required				
					ST be ICC-certifled he Department o		assed			
1) 🔲 installe	er 🔼 Decor	nmissioner [] Site Asse	essor						
Company Name:	MAR-VY	10		Certific	cation Type: UST	Decomo	nissioni	ng		
Service Provider I	Name: Mike	Schirmer		Cert. N	lo.: # not lish	ed on ICC	Exp. Da	ite: 1/28/2016		
Provider Phone:	206.76	2.0240	_	Provid	lo.: # Not lish er Email: Mikes	websil marir	te revacui	im.com.		
2) 🔲 înstalle	er 🔲 Decon	nmissioner 🔀] Site Asse							
Company Name:	PBS Engine	eering and E	nvironm	everalfic	ation Type: W	Site As	sessor	,		
Service Provider N	Name: Andr	ey McIvor		Cert. N	0.: 834585	57	Exp. Da	te: 4/25/201		
Provider Phone:				Provide	er Email: andre	ey. mclv o	raples e	env.com		
			V. TANK I							
TANK ID	SUBSTANCE STORED	TANK CAPACITY	DATE PRO EXPECTE BEGI	D TO	·	Сомме	ENTS			
1	GAS	1200	9/22	12015	Discovered					
· · · · · · · · · · · · · · · · · · ·					during exc	3	•			
			_		Construction Seattle Fir					
					on site.	We are	request	inpa		
					waiver from					
		٠.			Attor St.					

Generator's Waste Profile 724763-00 Status: PENDING 23 SEP 2015 Starts: Sales Rep 220 Rahim Mohideen Acct Mngr 985 Chris Hunter Expires: 30 SEP 2016 A: GENERATOR (500552) SITE INFORMATION B: CUSTOMER (4288) INFORMATION Pike Place Market PDA Seattle MARINE VACUUM SERVICE INC-SEAT **EPA** WAH000049665 Neshap N P.O. BOX 24263 1901 Western Ave **NAICS 9999** Seattle, WA 98101 SEATTLE, WA 98124 Phone (206) 255-8174 Contact Mike Schirmer TSDF Approval List No MSDS No C: WASTE INFORMATION On File > Analysis Yes Sample No Waste Name GASOLINE CONTAMINATED WITH LEAD Process OFF-SPEC MATERIAL Unused Commercial Product Yes Spill Residue No D: PHYSICAL CHARACTERISTICS OF WASTE PH Range 4.1-10 **Phys States** L-Liq Top Color VARIES Odor Strong gasoline Free Liq % Mid Color Layers Single Phased Flash Test Gen Knowledge **Bot Color** Flash Rnge <85F Spec Grav % Ash BTU/Lbs Viscosity Low % Water % Halogens Pumpable Yes E: CHEMICAL COMPOSITION OF WASTE 100 % OFF-SPEC GASOLINE) LEAD 250 ppm PCB's NS Phenolics Sulfides Dioxins NS Cyanides NS TOC >10% VOC >500 PPM Information Provided By Generator F: METALS METHOD TCLP Cadmium Chromium <5 Silver <5 Zinc Arsenic <5 Merc TCLP <0.2 Selenium <1 Nickel Copper Thallium Barium <100 Lead >5 Merc Tot Chrome-6 G: OTHER CHARACTERISTICS OF WASTE Cyanide Reactive No. Sulfide Reactive No Ign. Solid No Oxidizer No Explosive No Shock Sensitive No Explosive N/A Asbestos N/A Radioactive No. Water Reactive No. Reactive (Other) No Herbicides NS Pesticides Ammonia Infectious No Medical No H: EPA / STATE WASTE IDENTIFICATION Universal Waste No **EPA Waste Yes** Waste Water No State Waste No TSCA No Reg. Organics No Form W219 Source G11 Origin 1 SubPart CC Yes NESHAPS No CERCLA No Debris No **EPA** Codes D001 D008 **State Codes** UHC Categorical Discharge Standards CTW Category N/A DW/EHW: DW I: SHIPPING INFORMATION Marine Pollutant No Containers TT Tank Trucks Qty to Ship Now GALLON Projected Volume 660/Onetime UN1203 WASTE GASOLINE MIXTURE 3 PGII ERG(128) **DOT Descrip** ONE TIME SHIPMENT OF 660G Add Descrip J: SPECIAL DISPOSAL INSTRUCTIONS

Page

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Generator's Waste Profile 724763-00

Page

Status: PENDING

Starts:

23 SEP 2015

Sales Rep

220 Rahim Mohideen

Expires: 30 SEP 2016

Acct Mngr 985 Chris Hunter

GENERATOR CERTIFICATION

I hereby certify, as an authorized representative of the Generator named above, that Burlington Environmental, LLC has been fully informed of all information known about this waste, including but not limited to, the waste's generation process, composition, and physical characteristics, necessary to identify proper treatment and disposal of waste and this information is true and accurate. If this is an existing profile which is being renewed, I hereby certify that there have been no changes in this waste, chemical, physical, or regulatory designation since full characterization by sample testing.

This profile has greater than 500 ppm volatile organic compounds and is subject to Subpart CC of the RCRA regulations.

Signature

Printed Name

Title

Date

Burlington Environmental, LLC maintains the appropriate permits for and will accept the dangerous waste the generator is shipping as required by WAC 173-303-290(3).

Transporter 2 Company Name	Pike Place floritet 798 Seattle Fike Place floritet 798 Fike Fike Fike File File File File File File File Fil	UNIFORM HAZARDOUS 1. G WASTE MANIFEST	enerator ID Number WAHCOCO498		of 3. Emergency Res	onse Phone) 577-2	4. Manifest		umber 0 5 1	2 D	A
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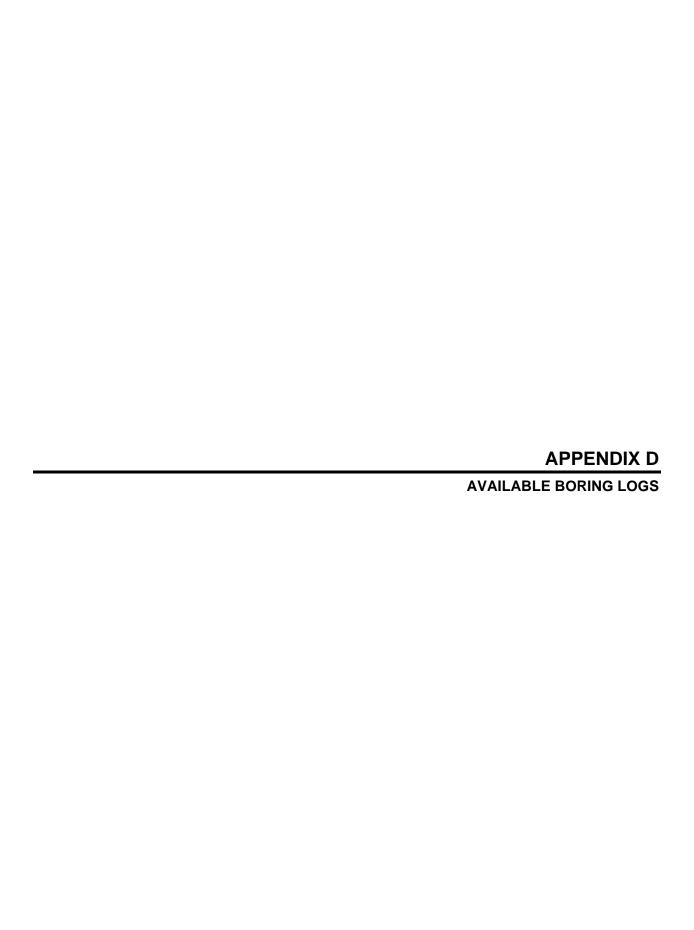
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				•						TENDERED
Th	e undersia	ned individual sid	gning this document on behalf of	Customer acknowled	ges that he or	he has reald a	nd (Melerstands the	terms and conditions		CHANGE

RS-F042UPR (07/12)

2/21

SIGNATURE __



RESOURCE PROTECTION WELL REPORT



This is a report of the activities of a licensed Washington well driller and serves as the official record of work done within the borehole and casing and describes the amount of water encountered.

Construction

Type of Well: Geotech Soil Boring Number of Wells in Group 1: 1 well

Type of Work: New Method: Auger

Drilling Start Date: 7/30/2015 Drilling Completion Date: 7/30/2015 Received by Ecology: 8/21/2015 1:46 PM

Dimensions:

Borehole Diameter: 5 in

Depth of completed well: 60 ft 0 in

Construction Details

Casings: From Depth

Diameter To Depth Type Stickup

N/A

Perforations:

Type Size Total From To Perforations Depth Depth

N/A

Screens:

Manufacturer Slot Dia-From To Size Depth Depth meter

N/A

Sand/Gravel Packings:

Material From To Depth Depth

N/A

Individual Well Details (Group 1 of 2) Well Driller's Identifier Water Level Dry Hole

Additional Well Construction Information

None

Well Group 1 of 2

Construction Notice of Intent Number: SE55494 Decommissioning Notice of Intent Number: AE33148

Unique Ecology Well ID Tag Number: N/A Property Owner Name: Pike Market Waterfront

Property Owner Address: 800 5th Ave 4130, Seattle, WA 98104

Well Location:

Well Street Address: 1901 Western Avenue

City, State, Zip: Seattle, WA

County: King

Township: 25N Range: 4E Section: 31 in the NW 1/4 of the SE 1/4

Well Head Elevation:

Elevation Datum:

Elevation Method:

Latitude (DD): Longitude (DD):

Datum:

Horizontal Coordinate Collection Method:

Tax parcel No.:

Lithology

Layer: Describe by color, character, size of material and structure, and the kind and nature of the material in each layer penetrated, with at least one entry for each change of information.

From	To	Material
0 ft 0 in	52 ft 0 in	Silt
52 ft 0 in	60 ft 0 in	Glacial Till

Well Construction Certification: I constructed and/or accept responsibility for construction of this well and its compliance with all Washington well construction standards. Material used and information reported above are true to the best of my knowledge and belief.

Driller/Engineer/Trainee Printed Name: Aren Hansen	Drilling Company: GEOLOGIC DRILL EXPLORATIONS INC
Driller or trainee License Number: 3123	Address: 14811 W COULEE HITE RD
If trainee, Driller's License Number:	City, State, Zip: SPOKANE, WA, 99224

RESOURCE PROTECTION WELL REPORT



This is a report of the activities of a licensed Washington well driller and serves as the official record of work done within the borehole and casing and describes the amount of water encountered.

Decommissioning

Type of Well: Geotech Soil Boring **Number of Wells in Group 1:** 1 well

Type of Work: New Method: Auger

Drilling Start Date: 7/30/2015 **Drilling Completion Date:** 7/30/2015 **Received by Ecology:** 8/21/2015 1:46 PM

Dimensions:

Diameter of borehole before decommissioning: 5 in Well depth before decommissiong: 60 ft 0 in

Construction Details

Casings: From Depth

To Depth Type Diameter Stickup

N/A

Perforations:

Type Size Total From To Perforations Depth Depth

N/A

Screens:

Manufacturer Type Dia- Slot From To meter Size Depth Depth

meter Size Depth

N/A

Sand/Gravel Packings:

Material From To Depth Depth

N/A

Individual Well Details (Group 1 of 2)

Well Driller's Identifier Decom Sealing Materials

1 Bentonite

Additional Well Decommissioning Information

None

Well Group 1 of 2 for Decommissioning Construction Notice of Intent Number: SE55494 Decommissioning Notice of Intent Number: AE33148

Unique Ecology Well ID Tag Number: N/A Property Owner Name: Pike Market Waterfront

Property Owner Address: 800 5th Ave 4130, Seattle, WA 98104

Well Location:

Well Street Address: 1901 Western Avenue

City, State, Zip: Seattle, WA

County: King

Township: 25N Range: 4E Section: 31 in the NW 1/4 of the SE 1/4

Well Head Elevation:

Elevation Datum:

Elevation Method:

Latitude (DD): Longitude (DD):

Datum:

Horizontal Coordinate Collection Method:

Tax parcel No.:

Litho	logy
aractor	6170

Layer: Describe by color, character, size of material and structure, and the kind and nature of the material in each layer penetrated, with at least one entry for each change of information.

From	To	Material
0 ft 0 in	52 ft 0 in	Silt
52 ft 0 in	60 ft 0 in	Glacial Till

Well Construction Certification: I constructed and/or accept responsibility for construction of this well and its compliance with all Washington well construction standards. Material used and information reported above are true to the best of my knowledge and belief.

Driller/Engineer/Trainee Printed Name: Aren Hansen	Drilling Company: GEOLOGIC DRILL EXPLORATIONS INC
Driller or trainee License Number: 3123	Address: 14811 W COULEE HITE RD
If trainee, Driller's License Number:	City, State, Zip: SPOKANE, WA, 99224





Voluntary Cleanup Program

Washington State Department of Ecology Toxics Cleanup Program

TERRESTRIAL ECOLOGICAL EVALUATION FORM

Under the Model Toxics Control Act (MTCA), a terrestrial ecological evaluation is necessary if hazardous substances are released into the soils at a Site. In the event of such a release, you must take one of the following three actions as part of your investigation and cleanup of the Site:

- 1. Document an exclusion from further evaluation using the criteria in WAC 173-340-7491.
- 2. Conduct a simplified evaluation as set forth in WAC 173-340-7492.
- 3. Conduct a site-specific evaluation as set forth in WAC 173-340-7493.

When requesting a written opinion under the Voluntary Cleanup Program (VCP), you must complete this form and submit it to the Department of Ecology (Ecology). The form documents the type and results of your evaluation.

Completion of this form is not sufficient to document your evaluation. You still need to document your analysis and the basis for your conclusion in your cleanup plan or report.

If you have questions about how to conduct a terrestrial ecological evaluation, please contact the Ecology site manager assigned to your Site. For additional guidance, please refer to www.ecy.wa.gov/programs/tcp/policies/terrestrial/TEEHome.htm.

Step 1: IDENTIFY HAZARDOUS WASTE SITE				
Please identify below the hazardous waste site for which you are documenting an evaluation.				
Facility/Site Name: Pike Place MarketFront				
Facility/Site Address: 1901 Western Avenue, Seattle, Washington				
Facility/Site No: ERTS 659781 VCP Project No.:				

Step 2: IDENTIFY EVALUATOR					
Please identify below the person who conducted the evaluation and their contact information.					
Name: Audrey McIvor Title: Project Geologist					
Organization: PBS Engineering + Environmental					
Mailing address: 2517 Eastlake Avenue East, Suite 100					
City: Seattle			te: WA	Zip code: 98102	
Phone: 206.766.7631			E-mail: audrey.mcivor@pbsenv.com		

Step 3: DOCUMENT EVALUATION TYPE AND RESULTS A. Exclusion from further evaluation. 1. Does the Site qualify for an exclusion from further evaluation? ⊠ Yes If you answered "YES," then answer Question 2. No or If you answered "NO" or "UKNOWN," then skip to Step 3B of this form. Unknown 2. What is the basis for the exclusion? Check all that apply. Then skip to Step 4 of this form. Point of Compliance: WAC 173-340-7491(1)(a) All soil contamination is, or will be,* at least 15 feet below the surface. All soil contamination is, or will be,* at least 6 feet below the surface (or alternative depth if approved by Ecology), and institutional controls are used to manage remaining contamination. Barriers to Exposure: WAC 173-340-7491(1)(b) All contaminated soil, is or will be,* covered by physical barriers (such as buildings or \boxtimes paved roads) that prevent exposure to plants and wildlife, and institutional controls are used to manage remaining contamination. Undeveloped Land: WAC 173-340-7491(1)(c) There is less than 0.25 acres of contiguous[#] undeveloped[±] land on or within 500 feet of any area of the Site and any of the following chemicals is present: chlorinated dioxins or furans, PCB mixtures, DDT, DDE, DDD, aldrin, chlordane, dieldrin, endosulfan, endrin, heptachlor, heptachlor epoxide, benzene hexachloride. toxaphene, hexachlorobenzene, pentachlorophenol, or pentachlorobenzene. For sites not containing any of the chemicals mentioned above, there is less than 1.5 \boxtimes acres of contiguous[#] undeveloped[±] land on or within 500 feet of any area of the Site. Background Concentrations: WAC 173-340-7491(1)(d) Concentrations of hazardous substances in soil do not exceed natural background levels as described in WAC 173-340-200 and 173-340-709. * An exclusion based on future land use must have a completion date for future development that is acceptable to Ecology. [±] "Undeveloped land" is land that is not covered by building, roads, paved areas, or other barriers that would prevent wildlife from feeding on plants, earthworms, insects, or other food in or on the soil. # "Contiguous" undeveloped land is an area of undeveloped land that is not divided into smaller areas of highways, extensive paving, or similar structures that are likely to reduce the potential use of the overall area by wildlife.

Step 4: SUBMITTAL

Please mail your completed form to the Ecology site manager assigned to your Site. If a s ite manager has not yet been assigned, please mail your completed form to the Ecology regional office for the County in which your Site is located.



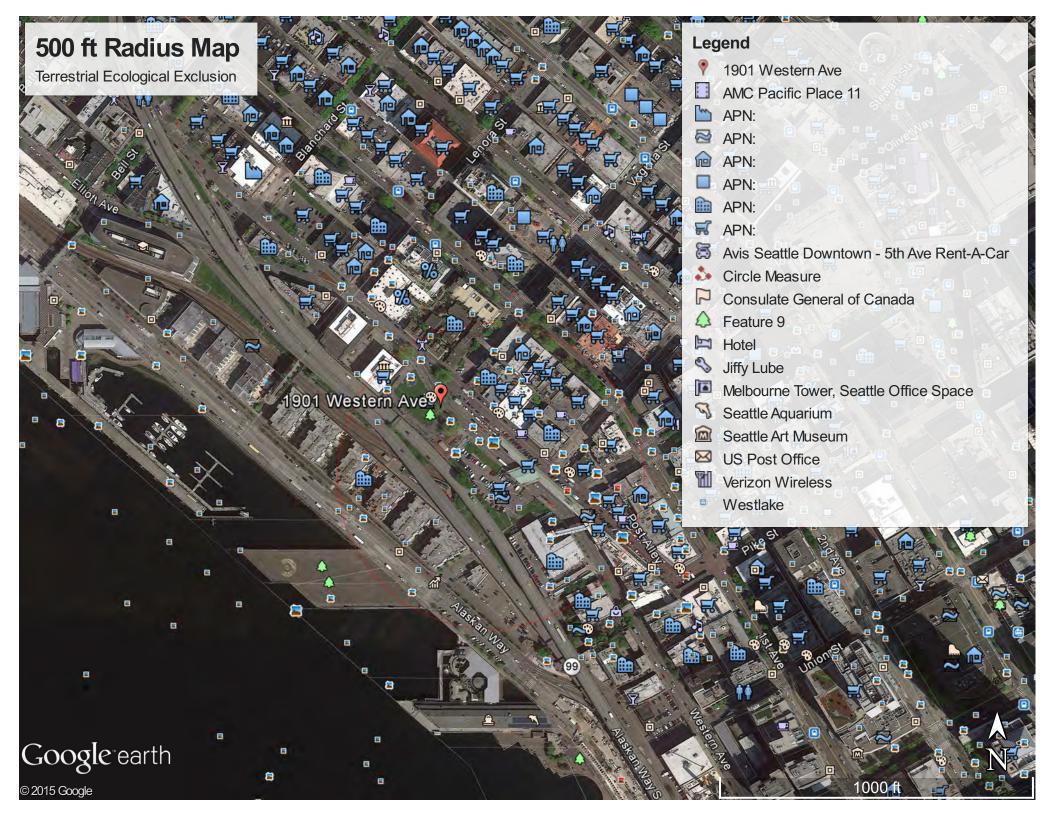
Northwest Region:
Attn: VCP Coordinator
3190 160th Ave. SE
Bellevue, WA 98008-5452

Southwest Region: Attn: VCP Coordinator P.O. Box 47775 Olympia, WA 98504-7775 Central Region: Attn: VCP Coordinator 15 W. Yakima Ave., Suite 200

Yakima, WA 98902

Eastern Region:

Attn: VCP Coordinator N. 4601 Monroe Spokane WA 99205-1295





A1 Soil Cleanup Levels: Worksheet for Soil Data Entry: Refer to WAC 173-340-720, 740,745, 747, 750

1. Enter Site Information

nie Injoina	non-
Date:	10/29/15
Site Name:	Pike Place Market PDA
Sample Name:	W-4E

2. Enter Soil Concentration Measured							
Chemical of Concern	Measured Soil Conc	Composition					
or Equivalent Carbon Group	dry basis	Ratio					
	mg/kg	%					
Petroleum EC Fraction							
AL_EC >5-6	0	0.00%					
AL_EC >6-8	27.9	26.24%					
AL_EC >8-10	10.3	9.69%					
AL_EC >10-12	6.68	6.28%					
AL_EC >12-16		0.00%					
AL_EC >16-21		0.00%					
AL_EC >21-34		0.00%					
AR_EC >8-10	29.7	27.93%					
AR_EC >10-12	16.1	15.14%					
AR_EC >12-16	4.08	3.84%					
AR_EC >16-21		0.00%					
AR_EC >21-34		0.00%					
Benzene	1.86	1.75%					
Toluene	2.61	2.45%					
Ethylbenzene	0.64	0.60%					
Total Xylenes	6	5.64%					
Naphthalene	0.449	0.42%					
1-Methyl Naphthalene		0.00%					
2-Methyl Naphthalene		0.00%					
n-Hexane		0.00%					
MTBE		0.00%					
Ethylene Dibromide (EDB)		0.00%					
1,2 Dichloroethane (EDC)		0.00%					
Benzo(a)anthracene		0.00%					
Benzo(b)fluoranthene		0.00%					
Benzo(k)fluoranthene		0.00%					
Benzo(a)pyrene		0.00%					
Chrysene		0.00%					
Dibenz(a,h)anthracene		0.00%					
Indeno(1,2,3-cd)pyrene	10.5.010	0.00%					
Sum	106.319	100.00%					
3. Enter Site-Specific Hydrogeological Data							
Total soil porosity:	0.43	Unitless Unitless					
Volumetric water content: Volumetric air content:	0.3						
Soil bulk density measured:	0.13	Unitless					
Fraction Organic Carbon:	1.5	kg/L Unitless					
•	0.001						
Dilution Factor:	20	Unitless					
4. Target TPH Ground Wa If you adjusted the target TPH gro		j aajustea)					
oncentration, enter adjusted	500	ug/L					
value here:	300	ug/L					

Clear All Soil Concentration Data En	try Cells
ore All Soil Concentration Data cleare	
ARK:	
oundwater encountered.	

A2 Soil Cleanup Levels: Calculation and Summary of Results. Refer to WAC 173-340-720, 740, 745, 747, 750

Site Information

Date: 10/29/2015

Site Name: Pike Place Market PDA

Sample Name:

Measured Soil TPH Concentration, mg/kg: 106.319

1. Summary of Calculation Results

E D-41	Method/Goal	Protective Soil	With Measu	red Soil Conc	Does Measured Soil
Exposure Pathway		TPH Conc, mg/kg	RISK @	HI @	Conc Pass or Fail?
Protection of Soil Direct	Method B	1,038	1.02E-07	3.14E-02	Pass
Contact: Human Health	Method C	66,984	1.37E-08	1.59E-03	Pass
Protection of Method B Ground	Potable GW: Human Health Protection	2	3.90E-04	1.23E+01	Fail
Water Quality (Leaching)	Target TPH GW Conc. @ 500 ug/L	19	NA	NA	Fail

2. Results for Protection of Soil Direct Contact Pathway: Human Health

	Method B: Unrestricted Land Use	Method C: Industrial Land Use				
Protective Soil Concentration, TPH mg/kg	1,038.08	66,984.09				
Most Stringent Criterion	Risk of Benzene= 1E-6	HI =1				

	Protective Soil Concentration @Method B				Protective Soil Concentration @Method C			
Soil Criteria	Most Stringent?	TPH Conc, mg/kg	RISK @	HI @	Most Stringent?	TPH Conc, mg/kg	RISK @	HI @
HI =1	NO	3.39E+03	3.26E-06	1.00E+00	YES	6.70E+04	8.64E-06	1.00E+00
Total Risk=1E-5	NO	1.04E+04	1.00E-05	3.06E+00	NO	7.75E+04	1.00E-05	1.16E+00
Risk of Benzene= 1E-6	YES	1.04E+03	1.00E-06	3.06E-01	NA			
Risk of cPAHs mixture= 1E-6	NA		NA	NA				
EDB	NA		NA	NA				
EDC	NA		NA	NA				

3. Results for Protection of Ground Water Quality (Leaching Pathway)

3.1. Protection of Potable Ground Water Quality (Method B): Human Health Protection

() () ()				
Most Stringent Criterion	Benzene MCL = 5 ug/L			
Protective Ground Water Concentration, ug/L	41.93			
Protective Soil Concentration, mg/kg	1.61			

Ground Water Criteria	Protective Potable Ground Water Concentration @Method B				Protective Soil
Ground water Criteria	Most Stringent?	TPH Conc, ug/L	RISK @	HI @	Conc, mg/kg
HI=1	NO	1.91E+02	2.87E-05	1.00E+00	7.35E+00
Total Risk = 1E-5	NO	6.67E+01	1.00E-05	3.49E-01	2.56E+00
Total Risk = 1E-6	YES	6.67E+00	1.00E-06	3.49E-02	2.56E-01
Risk of cPAHs mixture= 1E-5	NA	NA	NA	NA	NA
Benzene MCL = 5 ug/L	YES	4.19E+01	6.29E-06	2.19E-01	1.61E+00
MTBE = 20 ug/L	NA	NA	NA	NA	NA

3.2 Protection of Ground Water Quality for TPH Ground Water Concentration previously adjusted and entered

Ground Water Criteria	Protectiv	Protective Soil		
Ground water Criteria	TPH Conc, ug/L	Risk @	HI @	Conc, mg/kg
Target TPH GW Conc = 500 ug/L	5.00E+02	7.50E-05	2.61E+00	1.92E+01