Remedial Investigation / Focused Feasibility Study Report

Conducted on:
Fox's Carwash
8200 NE Hwy 99
Vancouver, WA 98665

Prepared for:
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1.0 INTRODUCTION

This report presents the findings of a Remedial Investigation and Focused Feasibility Study (RI/FFS) conducted by AEG Atlas, LLC (AEG) at *Fox's Carwash* at 8200 NE Hwy 99, Vancouver, Washington (Property). The purpose of this report is to document the completion of the RI and provide support for the remedial action proposed in the FFS. The scope of work for this investigation was developed based on our professional judgment and experience in accordance with requirements in the Washington State Department of Ecology (Ecology) Model Toxics Control Act (MTCA) Cleanup Regulations (Chapter 173-340 Washington Administrative Code [WAC]).

1.1 *General Property Information*

Property Name: Fox's Carwash
Property Address: 8200 NE Hwy 99, Vancouver, Washington
Clark County Parcel Nos: 145253000 and 145345000
Property Owner: Mr. Michael Fox
FSID No.: 18315758

1.2 *Property Description*

The Property consists of two rectangular tax parcels (Clark County Parcel Nos. 145253000 and 145345000) that cover a total of about 0.68 acres. The Property is currently in use as a gas station, car wash, and automotive detailing business, featuring a 2,862-square-foot (sq-ft) single-story automated carwash in the northern portion of the Property, a 2,100-sqft, two-story automotive detailing center in the southwest corner, and a gas station with two dispenser islands under an approximately 1,150-sq-ft canopy.

MTCA defines a *Site* as *"…any area where a hazardous substance has been deposited, stored, disposed of, or placed, or otherwise come to be located" (WAC 173-340-200).* Investigations performed to date have found that groundwater impacts on the north-adjacent U-Haul property (Parcel No. 145268000) appear to be impacting the Property. See Section 2.1.4 for additional discussion and evidence. For the purposes of this report, the "Site" is defined to also include the U-Haul property.

1.3 *Property History*

Ecology records indicate the gas station is served by two double-walled composite-clad steel underground storage tanks (USTs) installed in 1999: one 15,000-gallon unleaded gasoline UST, and one 15,000-gallon unleaded gasoline UST divided into two 7,500-gallon compartments. The records indicate three previously installed USTs were removed in 1996: one 5,000- to 9,999-

gallon unleaded gasoline single-wall UST installed in 1993, one 5,000- to 9,999-gallon single-wall leaded gasoline UST installed in 1973, and one 10,000- to 19,999-gallon single-wall UST installed in 1973.

Historically, the Property was in use as agricultural fields from 1935 to around 1950, with "a dwelling and associated outbuilding" present from about 1951 to about 1970. In 1971, the Property was redeveloped into "Classic Motors" gas station and car wash. The Property was reportedly reconfigured in 1999 with a new fuel island. The general vicinity of the Property is illustrated on Figure 1, *Vicinity Map*, and the current Property layout is illustrated on Figure 2, *Property Map.*

1.4 *Property Use*

The Property is currently in use as a gas station, car wash, and automotive detailing business. Figure 1, *Vicinity Map*, presents the location and general vicinity of the Property. The Property's current layout and features are provided in Figure 2, *Property Map*.

1.5 *Property Vicinity*

Properties adjacent to the Property include a U-Haul rental and storage facility to the north and west of the property, a primarily vacant throughway property for a hotel further southwest, and undeveloped land to the west across NE Hwy 99. The Property is located roughly 425 feet east of Interstate-5 highway and about 1.7 miles east of Vancouver Lake.

1.6 *Property Population*

In accordance with Ecology's Implementation Memorandum No. 25 (Ecology publication 24-09-044), the demographics of the population potentially threatened by Site contaminants were assessed for the inclusion of likely vulnerable populations or overburdened communities (WAC 173-340-310[1][c]). Property-specific demographic data for the potentially threatened population was not provided to AEG, so the Site demographics were assessed based on the census tract it is located within (#53011041009).

The Washington State Department of Health (WA DOH) Environmental Health Disparities (EHD) Map, which ranks census tracts on a scale from 1 (low) to 10 (high), indicates the census tract containing the Site has a rank of 8.

A Community Report was generated for the census tract from the U.S. Environmental Protection Agency's (EPA's) EJScreen tool. The Demographic Index for the census tract containing the Property is 1.37, which is less than the 80th percentile in the State of Washington. The

Supplemental Demographic Index is 1.72, which is less than the 80th percentile in the State of Washington.

Based on the EHD Map and EJScreen Community Report, the population potentially threatened by contamination on this Property does not include likely vulnerable populations or overburdened communities. The WA DOH EHD Map and EPA EJScreen Community Report are included in Appendix C.

1.7 *Climate*

In accordance with updates to MTCA implemented in 2024, current and projected local and regional climatological characteristics were assessed based on Ecology's *Sustainable Remediation* guidance (Ecology publication No. 17-09-052). The following sources were reviewed: the 2022 Washington State Climate Summary from the National Oceanic and Atmospheric Administration (NOAA) National Centers for Environmental Information (NCEI), climate projections presented on the WA DOH EHD Map, and Federal Emergency Management Agency (FEMA) flood maps.

1.7.1 Regional Concerns

The NOAA NCEI 2022 Washington State Climate Summary (Climate Summary) indicates that average near-surface air temperatures in Washington have increased by approximately 2 degrees Fahrenheit (°F) since the beginning of the 20th century and are projected to continue increasing through the year 2100, resulting in fewer freezing days (maximum daily temperature less than 32°F) and additional hot days (maximum daily temperature greater than 90°F) over time. The projected change in total annual precipitation is uncertain, but seasonal patterns are projected to change resulting in decreasing precipitation during summer and increasing precipitation during winter. Winter snowpack volumes are projected to decrease as precipitation is projected to increasingly fall as rain instead of snow across the state due to increasing average temperatures. These changes in precipitation patterns would decrease water availability during summer and increase the risk of spring flooding. Heavy rainfall events (greater than 1 inch of precipitation in Eastern Washington; greater than 2 inches of precipitation in Western Washington) are projected to occur with increased frequency, which would increase flood risk relative to historical patterns. Since 1900, global mean sea level has risen by approximately 7-8 inches and is likely to increase an additional 1-4 feet by 2100. Rising sea levels will increase the frequency of tidal floods and seawater incursion on coastal sites.

1.7.2 Property Concerns

The WA EHD map presents statistics reflecting the projected changes in average temperature and average precipitation for the 30-year period centered around 2050 (2036 to 2065) relative to

a historical baseline period (1976 to 2005). Data is presented for each census tract and ranked from 1 (low) to 10 (high) among census tracts in Washington. Projected changes in annual cooling degree days, annual heating degree days, annual days over 99th percentile historical temperature, and annual precipitation are summarized in Appendix C, *Supporting Documents*, *Table C1 – Summary of Projected Climate*. Relative to the rest of Washington, the Property is projected to experience a moderate decrease in cool weather, a high increase in hot weather, and a moderate change in annual precipitation.

The FEMA Flood Insurance Rate Map (FIRM) depicts areas impacted by flooding at least once every 100 years (1% annual chance flood) according to historical data and modelling. Clark County FIRM Panel 530024 shows that the Property is in an area of less than 0.2% annual chance flood risk. Projected changes in seasonal precipitation patterns may increase the annual chance of flood. A "FIRMette" for the Property is included in Appendix C, *Supporting Documents.*

2.0 FIELD INVESTIGATIONS

2.1 *Property Characterization History*

This section includes summaries of environmental activities completed during and prior to the involvement of AEG at the Property and descriptions of prior activities are limited to the content of historical reports provided to AEG for review. Methods used during fieldwork overseen by AEG are summarized in Section 2.2, *Field Methodologies.*

Analytical data provided in historical reports, as well as data collected by AEG, are presented in Table 1, *Summary of Soil Analytical Results*, and Table 2, *Summary of Groundwater Analytical Results*. Site features and locations of soil samples and monitoring wells are illustrated in Figure 2, *Property Map*. Previous boring logs and laboratory reports, when provided with historical reports or associated with AEG-led work, are included in Appendix A.

2.1.1 Phase I ESA – Green Environmental Management (G|E|M), January 2024

In anticipation of a property transfer, G|E|M conducted a Phase I Environmental Site Assessment (ESA) for the Property. The Phase I ESA report identified the following recognized environmental conditions (RECs):

- *The site currently operates two 15,000-gallon capacity underground storage tanks constructed of double-wall steel clad with corrosion resistant composite that were installed in October 1999. According to the most recent Annual UST Leak Testing Report dated September 29, 2023, the UST system received a passing score for all services performed. Review of reasonably ascertainable information pertinent to the status and operation of the current storage tank system did not reveal any reported discharges. Although no report of a petroleum discharge has been documented for the subject property, the noted length of time that the subject property has been utilized as a gasoline service station represents a significant concern. Based on the age of the current USTs, and the possibility that releases may occur from tanks or tank systems that are otherwise testing as tight, GlElM is unable to rule out the potential that a release from the USTs has affected the subsurface of the subject property. On this basis, the storage of petroleum products at the subject property represents a REC for the subject property.*
- *The detail shop building and fuel dispenser pad of the subject property are equipped with drains that discharge to subgrade clarifiers. The clarifiers are used primarily to trap oil and grease, sediments and debris prior to wastewater discharging. Clarifiers have the potential to act as a conduit to the subsurface of the subject property and, consequently, oils or solvents present in the wastewater stream could impact the soil beneath the property if the separator or drain system was compromised due to age or subsurface*

conditions. Based on the age of the clarifiers (approximately 25 years), there is a potential that the subsurface has been impacted by these features. As such the presence of the separators represents a REC for the subject property.

- *The adjoining property to the east across Highway 99 was identified on multiple databases associated with historical land use. According to available information, this site is an active release site with no current institutional controls in effect. This site includes two parcels. The western portion of parcel 145248000 was occupied by a retail gas station until the 1970s and by a radiator shop until the 1990s. Legacy soil and groundwater contamination identified on this site has been linked to the historical automotive repair and gas station. This site is currently enrolled in the Voluntary Cleanup Program (VCP). Although extensive remediation and investigation has been conducted at this site, the horizontal and vertical extent of the plume has not been determined. Based on this information and close proximity to the subject property (approximately 100 feet) as well as the up- to cross-gradient orientation relative to the subject property, the potential for migrating groundwater contamination associated with this site exists and, therefore, this site represents a REC for the subject property.*
- *The north-adjoining property, U-Haul, was identified on multiple databases associated with current and former use. Available information indicates that two former USTs were installed in December 1964 and were removed in August 1996. Petroleum contamination in both soil and groundwater were confirmed above cleanup target levels. Given that both soil and groundwater have been impacted by a former release and that the site remains active, this site represents a REC for the subject property.*

G|E|M also identified a historical REC (HREC) at the Property related to a historical release and cleanup of petroleum products at the Property. Reportedly, a petroleum release from the previous generation of USTs was identified at the Property in 1999 and, following subsequent remedial activities and monitoring under Ecology's Voluntary Cleanup Program, the Property received a Site No Further Action (NFA) determination from Ecology on May 12, 2011.

Based on the RECs identified in the Phase I ESA report, AEG was retained to perform a Phase II ESA.

2.1.2 Phase II ESA – AEG, January-February 2024

On January 31 and February 1, 2024, AEG provided oversight during the advancement of eight borings (B-1 through B-8) up to 20 feet below ground surface (bgs) by Cascade Drilling. Soil and groundwater samples were collected from each of the borings and submitted to Libby Environmental (Libby) for analysis of gasoline-, diesel-, and oil-range petroleum hydrocarbons (TPH). Groundwater was encountered between 7 and 16 feet bgs in all borings.

Analytical results indicated the presence of gasoline-range TPH above MTCA Method A cleanup levels in boring B-2 at 10 feet and in groundwater at B-5, all other samples were either non-detect or detected below their applicable cleanup levels.

2.1.3 Property Investigation – AEG, February 2024

On February 22, 2024, AEG returned to confirm previous detections and define the extent of the contamination. One boring (B-9) was advanced adjacent to boring B-2 to replicate the previous TPH detection and analyzed the sample for volatile and extractable petroleum hydrocarbons (VPH and EPH); three borings (B-10, B-11, and B-12) were advanced to laterally define the TPH detection in B-2; and one monitoring well (MW-1) was installed at the location of boring B-5 to evaluate representative groundwater conditions.

Analytical results indicated the presence of gasoline-range TPH above the MTCA Method A cleanup levels in B-9; however, the VPH and EPH data was used to calculate a Property-specific MTCA Method B cleanup level of 870 milligrams per kilogram (mg/kg). The gasoline-range TPH detections in B-2 (710 mg/kg) and B-9 (320 mg/kg) are below this value. Also, analytical results of groundwater samples collected from B-2 and B-9 were either non-detect or below MTCA Method A cleanup levels, demonstrating the soil impacts have not migrated into groundwater. Further, benzene, toluene, ethylbenzene, and xylene (BTEX) results in B-9 were non-detect, except for a low detection of ethylbenzene, indicating this is old, weathered gasoline that appears to meet MTCA cleanup standards. Method B Calculations are summarized in Appendix C, Supporting Documents, *Method B Calculations.*

Following well development, AEG sampled groundwater from MW-1. Analytical results indicated the presence of benzene above MTCA cleanup levels, and gasoline-range TPH and xylenes below MTCA cleanup levels.

2.1.4 Data Gap Investigation – AEG, April 2024

On April 8, 2024, after negotiating access to the adjacent U-Haul property, AEG returned to the Property to laterally define the groundwater impacts in MW-1. Four additional borings (B-13 through B-16) were advanced, including one (B-16) on the U-Haul property. Analytical results for soil indicated the presence of benzene just above MTCA Method A cleanup levels at 5 feet bgs in B-16, but below the MTCA Method B cleanup level for direct contact exposure. However, analytical results for groundwater indicated the presence of gasoline and benzene above MTCA Method A cleanup levels in B-16.

Based on these results, it appeared the gasoline-range TPH and benzene impacts noted in B-5 and MW-1 on the Property originated from the U-Haul property. In discussion with U-Haul staff

regarding the potential presence of a source in that area of their property, they confirmed they had multiple incidents of vandalism in that area. U-Haul trucks are typically parked in that area, and on more than one occasion, theft of gasoline occurred from the trucks, resulting in some releases to the ground surface. AEG reached out to the county Sheriff's office to corroborate the story, and acquired incident reports of this occurrence. These reports are included in Appendix C, *Supporting Documents.* Further, in presenting this information to corporate personnel at U-Haul, they indicated they would have their consultant further investigate the releases, and that AEG's access agreement had been rescinded.

2.2 *Field Methodology*

AEG supervised the advancement of soil borings and groundwater wells as described in Section 2.1, *Property Characterization History*. Methods and procedures used during AEG-supervised fieldwork to collect samples of soil and groundwater are described below, unless stated otherwise in the description of that work.

2.2.1 Soil Sampling Procedures

Soil sampling methods for this work followed the protocols established by Ecology and the U.S. Environmental Protection Agency (EPA) for characterization of petroleum contamination. To minimize volatile organic compound (VOC) losses, soil sampling and field preservation methods for VOCs followed methods set forth by EPA's Method 5035A and Ecology's guidance, "*Collecting and Preparing Soil Samples for VOC Analysis*". Soil samples were collected from the soil borings via continuous soil cores in an acetate sleeve inside the drilling rod's core barrel. Soils were observed to document soil lithology, color, moisture content, and sensory evidence of contamination.

Soil samples were selected for laboratory analysis based on field observations and photoionization (PID) readings, primarily within the vadose zone. Soil samples were collected and placed into laboratory provided 4-ounce jars for the analyses of constituents of concern.

2.2.2 Boring and Monitoring Well Groundwater Sampling Procedures

For one-time borings, a temporary well screen was installed to collect a groundwater sample. The temporary well screen was placed at the interval below the vadose zone where groundwater was encountered during drilling activities. Dedicated polyethylene tubing was inserted into the retractable screen and groundwater purged via the EPA-approved low-flow purge technique. A peristaltic pump was used to purge the well until the discharge was relatively free of sediment.

Groundwater monitoring wells were sampled via the low flow-purging technique, and purged until the field parameters, including pH, temperature, specific conductivity, dissolved oxygen, and/or total dissolved solids were stabilized, and the water was relatively free of sediment.

Groundwater samples were collected in laboratory-provided 40-milliliter (ml) volatile organic analysis (VOA) vials, and ½-liter amber bottles. Upon collection, the samples were placed in a chilled cooler for transport to the analytical laboratory.

2.2.3 Quality Controls

To ensure that quality information was obtained at the Property:

- All samples were collected in general accordance with industry protocols for the collection, documentation, and handling of environmental samples.
- Descriptions of soil sampling depths were carefully logged in the field. The driller and geologist confirmed sample depths as soil samples were collected.
- Nitrile gloves were worn when handling all sampling containers and sampling devices. Clean gloves were used at each soil boring to prevent cross contamination.
- The sampling equipment was scrubbed with Alconox detergent and rinsed with water prior to each sample extracted.
- Soil samples were tightly packed into laboratory-provided dedicated sampling containers to eliminate sample headspace.
- Upon sampling, all soil and groundwater samples were immediately placed into chilled ice chests and transported for analysis under a chain-of-custody protocol to the Libby Environmental analytical laboratory in Olympia, Washington.

The analytical laboratory provided project quality assurance/quality control (QA/QC), including:

- Surrogate recoveries for each sample.
- Method blank results.
- Duplicate analysis.
- Laboratory control samples.

All analytical laboratory QA/QC results were within required limits. The laboratory report is provided in Appendix A, *Supporting Documents.*

2.2.4 Investigation-Derived Waste

Investigation-derived waste for this project consisted of soil cuttings from the subsurface exploration activities, decontamination water from decontamination of the drilling core barrel and associated equipment, and purge water from the borings and monitoring well. These wastes were placed in U.S. Department of Transportation (DOT)-approved 55-gallon drums. The drums were appropriately labelled, and stored at the Property for subsequent characterization and disposal.

2.3 *Analytical Results*

Soil and groundwater samples collected to date have been analyzed for one or more of the following analyses:

- Gasoline-range TPH by Northwest Method NWTPH-Gx.
- Diesel- and oil-range TPH by Northwest Method NWTPH-Dx/Dx Extended.
- BTEX by EPA Method 8260.
- VPH and EPH.

Soil and groundwater analytical results were compared to MTCA Method A and/or B cleanup levels. Copies of the laboratory analytical results are provided in Appendix B, *Laboratory Datasheets.*

2.3.1 Soil Results

Analytical results of soil samples collected to date indicated the presence of gasoline-range TPH and benzene above MTCA Method A cleanup levels as follows:

- Gasoline-range TPH was detected in B-2 (710 mg/kg) and B-9 (320 mg/kg). Both samples were collected from 10 feet bgs with clean results both above and below. Also, B-9 was advanced adjacent B-2 to replicate the previous TPH detection in B-2, and analyze for VPH and EPH to be able to calculate a Property-specific MTCA Method B cleanup level. The calculations resulted in a Property-specific MTCA Method B cleanup level of 870 mg/kg, and both soil concentrations are below this value.
- Benzene was detected in B-16 (0.034 mg/kg) at 5 feet bgs. Results were non-detect at 10 and 15 feet bgs. This boring was located on the U-Haul property, and also detected gasoline and benzene in groundwater.

Table 1, *Summary of Soil Analytical Results*, presents the soil analytical results as compared to MTCA Method A and B soil cleanup levels.

2.3.2 Groundwater Results

Analytical results of groundwater samples collected from the boreholes indicated the presence of gasoline-range TPH and benzene above MTCA Method A cleanup levels as follows:

- Gasoline-range TPH at 7,200 microgram per liter (µg/L) in boring B-5 on Property, and in boring B-16 at 1,100 µg/L on the U-Haul property. However, MW-1 was installed at the B-5 location to allow for collection of a more representative groundwater sample, which detected gasoline-range TPH below MTCA cleanup levels.
- Benzene was detected above MTCA Method A cleanup levels in MW-1 on Property at 12 µg/L, and in boring B-16 at 60 µg/L on the U-Haul property.

All other analytical results were either non-detect or below MTCA cleanup levels. Table 2, *Summary of Groundwater Analytical Results*, presents the groundwater analytical results as compared to MTCA Method A cleanup levels.

3.0 CONCEPTUAL SITE MODEL

This section provides a conceptual understanding of the Site, derived from the results of the subsurface investigations performed at the Site. The Conceptual Site Model (CSM) is dynamic and may be refined as additional information becomes available.

AEG believes the Property has been sufficiently characterized to be able to establish cleanup standards and select a cleanup action for the Property. Remedial alternatives presented in the accompanying FFS contemplate contamination in both accessible and inaccessible areas of the Property.

3.1 *Sources and Release Mechanisms*

The primary source of hazardous substances released to the environment at the Site appears to be an off-Property source to the north (U-Haul property), where spills related to gasoline theft and vandalism impacted groundwater on both the U-Haul and carwash properties.

3.2 *Contaminants of Concern and Affected Media*

Contaminants of concern (COCs) at the Site consist of gasoline-range TPH and benzene. Known contaminated environmental media includes groundwater in the northeast portion of the Property as discussed in Section 2.3.2, and shown on Figure 3, *TPH in Groundwater Plume Map*.

3.3 *Environmental Fate and Transport*

The transport and fate of COCs on this Site are primarily controlled by the subsurface conditions present, including soil types, presence or absence of groundwater, and biotic activity.

3.3.1 Site Geology and Hydrogeology

The Site is located in the region of the Portland Basin, which is characterized by flats formed by the Columbia River and various other rivers descending form the neighboring Cascade mountains. Nearly 20 million years ago the depression began forming from tectonic forces, creating substantial faulting and leading to a topographic depression, which has been filled by volcanic and sedimentary rock deposition. According to the Geologic Map of Washington State, the Site and surrounding properties overlie Pleistocene outburst flood deposits that primarily consists of sand silt and gravel deposits associated with the draining of glacial Lake Bonneville and Lake Missoula.

The United States Department of Agriculture's Natural Resources Conservation Service (NRCS) Web Soil Survey indicates the primary Site soils include Hillsboro silt loam with 3-8 percent slope.

Soils encountered by AEG during drilling indicated primarily silt and sandy silts with inclusion of gravel near the UST nests to the maximum depth explored of 20 feet bgs. Groundwater was encountered in all borings at about 7 to 16 feet bgs.

3.3.2 Environmental Fate of TPH in the Subsurface

TPH compounds are soluble and migrate in groundwater. These compounds have a specific gravity that is less than water and can be measured in monitoring wells as Light Non-Aqueous Phase Liquid (LNAPL). LNAPL can also exist as a residual non-mobile phase that is either sorbed to the soil or trapped in the pore spaces between the soil particles. Unless treated, residual LNAPL can act as a long-term source for groundwater contamination. No LNAPL has been identified at the Site to date.

TPH compounds are readily biodegraded in the subsurface by naturally occurring aerobic and anaerobic bacteria. Aerobic biodegradation is the most efficient of the biological activities.

3.4 *Potential Exposure Pathways*

As defined in WAC 173-340-200, an exposure pathway describes the mechanism by which a hazardous substance takes or could take a pathway from a source or contaminated medium to an exposed receptor.

3.4.1 Potential Soil Exposure Pathways

Common soil exposure pathways considered for COCs at the Site include:

- Direct Contact (dermal contact, incidental ingestion) with hazardous substances in soil by visitors, residents, and workers (including excavation workers). Direct ingestion of, or dermal contact with, contaminated soil is considered a potential exposure pathway for the Site; however, no soil impacts above MTCA Method B cleanup levels for direct contact exposure have been identified on the Property.
- Groundwater Leaching Pathway. The groundwater leaching pathway is considered potentially complete at this Site. AEG assumes releases of gasoline on the U-Haul property have impacted soil and groundwater; however, the extent of the impacts on the U-Haul property have not yet been defined.

3.4.2 Potential Groundwater Exposure Pathways

Common groundwater exposure pathways considered for COCs at the Site include:

- Contact (dermal, incidental ingestion) with hazardous substances dissolved in groundwater by visitors, residents, and workers (including excavation workers). Groundwater is considered a potentially complete pathway for direct contact and ingestion because of the depth of its occurrence. Groundwater levels are typically around 10 feet bgs. Additionally, impacted areas are currently covered by asphalt and unless disturbed, are not available for potential direct contact or ingestion.
- Consumption of hazardous substances in groundwater. Currently, drinking water is provided by the City of Vancouver. However, for the purpose of this CSM, this pathway is considered potentially complete.

3.4.3 Potential Air Exposure Pathways

Common air exposure pathways considered for COCs at the Site include:

- Inhalation of hazardous substances in soil vapor by visitors, residents, and workers (including excavation workers). No indoor air or soil vapor sampling has been performed to date. Soil and groundwater impacts detected above MTCA Method A cleanup levels are greater than the 6-foot bgs vertical separation distance for TPH. As such, the soil-to-vapor pathway is not considered a complete pathway.

3.4.4 Terrestrial Ecological Evaluation

Exclusion from further evaluation is appropriate for this Site for the following reasons:

- Barriers to Exposure: WAC 173-340-7491(1)(b): 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.
- Undeveloped Land: WAC 173-340-7491(1)(c): There is less than 1.5 acres of contiguous undeveloped land on or within 500 feet of any area of the Site.

A copy of the Terrestrial Ecological Evaluation form is included in Appendix C.

4.0 CLEANUP STANDARDS

The following sections identify applicable or relevant and appropriate requirements (ARARs), remedial action objectives (RAOs), and preliminary cleanup standards for the Site, which were developed to address Ecology's requirements for cleanup. These requirements address conditions relative to potential identified impacts. Together, ARARs, RAOs, and cleanup standards provide the framework for evaluating remedial alternatives.

4.1 *Potentially Applicable Laws*

All cleanup actions conducted under MTCA shall comply with applicable state and federal laws [WAC 173-340-710(1)]. MTCA defines applicable state and federal laws to include legally applicable requirements and those requirements that are relevant and appropriate. Collectively, these requirements are referred to as ARARs. The primary ARAR is the MTCA regulation (WAC 173-340), especially with regard to the development of cleanup levels and procedures for development and implementation of a cleanup under MTCA. ARARs for the Site cleanup also include the following:

- Federal Safe Drinking Water Act Maximum Contaminant Levels (MCLs; 40 CFR Part 141).
- Washington Clean Air Act (Chapter 70.94 RCW).
- Puget Sound Clean Air Agency (PSCAA), Regulation I.
- Washington Solid and Hazardous Waste Management (RCW 70.105); Chapter 173-303 WAC; 40 CFR 241, 257; Chapter 173-350 and 173-351 WAC) and Land Disposal Restrictions (40 CFR 268; WAC 173-303-340).
- Washington Industrial Safety and Health Act (RCW 49.17) and other Federal Occupational Safety and Health Act (29 CFR 1910, 1926).

Federal MCLs are minimum requirements for drinking water. MTCA Method A cleanup levels for groundwater are set at least as low as federal MCLs. State and federal groundwater and air quality criteria are considered in the development of cleanup levels. State dangerous waste regulations may be applicable to contaminated soil removed from the Site.

4.2 *Remedial Action Objectives*

RAOs have been established for the Property to establish remedial alternatives protective of human health and the environment under the MTCA cleanup process (WAC 173-340-350). The primary RAO for this cleanup action focuses on substantially and permanently eliminating, reducing, and controlling unacceptable risks to human health and the environment posed by the COCs, to the greatest extent practicable.

RAOs are important for the evaluation of the general response actions, technologies, process options, and cleanup action alternatives. Based on the assessment of Site-specific conditions and the potentially applicable cleanup levels presented below, the RAOs for the Site have been established as follows:

- *In a reasonable restoration time frame, permanently reduce concentrations of COCs in Site groundwater to levels protective of human health and the environment and which are protective of groundwater quality.*

4.3 *Cleanup Standards*

Cleanup standards include cleanup levels and points of compliance (POCs) as described in WAC 173-340-700 through WAC 173-340-760. Cleanup standards must also incorporate other state and federal regulatory requirements applicable.

4.3.1 Proposed Cleanup Levels

MTCA Method B cleanup levels for the soil and MTCA Method A cleanup levels for groundwater exposure pathways are appropriate for this Property. Proposed MTCA cleanup levels for the Property COCs that have been measured in soil and groundwater at the Site include:

Constituent	Soil	Groundwater
• Gasoline-Range TPH:	870 mg/kg	800 µg/L
• Benzene:	18 mg/kg	5 µg/L

mg/kg = milligrams per kilogram
µg/L = micrograms per liter

4.3.2 Points of Compliance

For this Site, it is assumed that standard points of compliance will be used.

- Soil – Direct Contact: For soil cleanup levels based on human exposure via direct contact, the point of compliance is throughout the Site from the ground surface to 15 feet bgs.
- Soil – Leaching: For soil cleanup levels based on protection of groundwater, the point of compliance is throughout the Site.
- Groundwater: For groundwater, the point of compliance is throughout the Site from the uppermost level of the saturated zone extending vertically to the lowest most depth that could potentially be affected by the Site.
- Indoor Air/Soil Gas: The point of compliance is ambient and indoor air throughout the Site.

5.0 FOCUSED FEASIBILITY STUDY

As discussed in previous sections, contamination that is present on Site is a result of migration from the U-Haul property to the Property. In discussion with U-Haul staff regarding the potential presence of a source in the southern area of their property, adjacent the southern Property boundary, U-Haul confirmed they had multiple incidents of vandalism in that area. U-Haul trucks are typically parked in that area, and on more than one occasion, theft of gasoline occurred from the trucks, resulting in some releases to the ground surface. AEG reached out to the county Sheriff's office to corroborate the story, and acquired incident reports of this occurrence. These reports are included in Appendix C, *Supporting Documents.* U-Haul indicated they are having their consultant define the impacts on their property. Since upgradient sources are not actively being eliminated, any efforts by the Property to clean up what impacts are present could result in re-contamination of the Property. However, institutional controls, in the form of an environmental covenant, would result in the Property being protective of all potential exposure pathways, and allow the Property to be financeable for a pending property transfer. As such, AEG has elected to provide this focused feasibility study to outline potential options for achieving MTCA cleanup standards so that the Property would ultimately qualify for a Property-Specific No Further Action (NFA) determination.

Under MTCA, a site qualifies for a determination of NFA when MTCA cleanup standards have been achieved (i.e., when all site COCs meet the cleanup levels established for the site at the points of compliance for all media). If cleanup levels are unable to be met, institutional controls (typically in the form of an environmental covenant) may be used to ensure no exposure pathways are complete that may result in exposure to human health and the environment. The environmental covenant is typically recorded as part of the property deed to warn future property owners of the condition and restrict activities or use of the property that could result in exposure to the contamination.

The property adjacent to the north is occupied by a U-Haul truck rental facility, which is listed on Ecology's Contaminated Sites List as U-Haul Center of Hazel Dell (FSID: 82682784; CSID: 10657). This site listing is associated with a cleanup related to a diesel UST and dispenser in the northern part of the U-Haul property. However, as noted above, a separate release of gasoline has reportedly also occurred, and is impacting the Property to the south.

Installation of a barrier along the Property line without the U-Haul source being addressed would only result in contamination spreading out over a wider area. Until the source is addressed, AEG recommends placing an environmental covenant on the Property that would include restrictions on groundwater use, then monitoring the existing well (MW-1) to monitor for potential COC concentration increases related to plume migration.

This solution would meet the criteria specified in WAC 173-340-360(4) and WAC 173-340-360(5)(d) as follows:

1. Restoration time frame – The use of institutional controls would result in the shortest restoration timeframe to reduce risk and attain cleanup standards.
2. Protectiveness – With institutional controls in place, the Property would be protective of all exposure pathways to human health and the environment.
3. Permanence – The use of institutional controls would be permanent to the extent needed for the Property to be protective of all exposure pathways pending cleanup on the U-Haul property.
4. Effectiveness over the long term – The proposed remedy comes with a high degree of certainty of success, both initially and over the long term, in meeting cleanup standards and ensuring protection of human health and the environment.
5. Management of implementation risks – Risks are minimal with the implementation of institutional controls and long-term monitoring.
6. Technical and administrative implementability – The use of institutional controls is technically and administratively implementable.
7. Cost – The costs associated with this alternative are manageable, and would result in a high cost vs. benefit value as opposed to other alternatives (see discussion below).

For the Property to receive a Property-Specific NFA, Ecology guidance would suggest the need for cleanup of any contaminated groundwater beneath the Property, and installation of a barrier wall to prevent upgradient groundwater impacts from re-contaminating the Property. Further, additional monitoring wells would likely need to be constructed to monitor the effectiveness of the barrier. Based on our professional experience, it is AEG's opinion that the costs of performing a physical cleanup and installing such a barrier would be greatly disproportionate to the overall benefit over the preferred alternative for the following reasons:

- Groundwater depths in the borings conducted to date have been around 10 feet bgs, which is below the 6-foot ft bgs mark where vapor is likely to migrate into the Site building.
- The barrier would only redirect upgradient groundwater impacts underneath the on-Property building and/or into the public right of way for Highway 99. This doesn't reduce any risks with respect to the plume that already exists, and potentially creates other risks by redirecting the plume elsewhere. Its only purpose would be to (potentially) prevent groundwater from being further contaminated underneath the Property, which combined

with low hydraulic conductivity of the on-Site soil and the depth to groundwater, is not a major concern.

No other alternatives considered for the Property are likely to achieve cleanup standards within a reasonable timeframe or cost.

6.0 CONCLUSIONS AND RECOMMENDATIONS

6.1 *Findings and Conclusions*

Findings and conclusions derived from the RI activities at the Property are as follows:

- A Phase II ESA on Property, along with subsequent testing, confirmed the presence of gasoline and benzene in groundwater above MTCA Method A cleanup levels.
- No evidence of release from current Site operations was documented. However, the adjacent U-Haul property to the north confirmed they had multiple incidents of vandalism near the southern property boundary where gasoline was detected in groundwater. U-Haul trucks are typically parked in that area, and on more than one occasion, theft of gasoline occurred from the trucks, resulting in some releases to the ground surface. AEG reached out to the county Sheriff's office to corroborate the story, and acquired incident reports of this occurrence.
- Institutional controls in the form of an environmental covenant and periodic monitoring of the on-Site groundwater monitoring well are the only feasible remedy for the Property until cleanup occurs on the U-Haul property.
- Use of a physical barrier would significantly increase the cost and restoration timeframe of the preferred remedy, and would add little additional benefit, while introducing new potential problems as it has potential to be redirected into the public ROW and underneath nearby building.

6.2 *Recommendations*

Based on the work performed to date, AEG recommends the following:

- Submittal of this report to Ecology for their review and concurrence with the preferred remedy.

7.0 LIMITATIONS

This report summarizes the findings of the services authorized under our agreement with Mr. Michael Fox. It has been prepared using generally accepted professional practices, related to the nature of the work accomplished. This report was prepared for the exclusive use of Mr. Michael Fox and his designated representatives, for the specific application to the project purpose.

Recommendations, opinions, Site history, and proposed actions contained in this report apply to conditions and information available at the time this report was completed. Since conditions and regulations beyond our control can change at any time after completion of this report, or our proposed work, we are not responsible for any impacts of any changes in conditions, standards, practices, and/or regulations subsequent to our performance of services. We cannot warrant or validate the accuracy of information supplied by others, in whole or part.

8.0 REFERENCES

AEG Atlas, LLC. 2024. *Phase II Environmental Site Assessment*, dated February 12, 2024.

AEG Atlas, LLC. 2024. *Technical Memorandum – Follow-Up Investigation*, dated March 20, 2024.

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FIGURES

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Phone: 360-352-9835 • Fax: 360-352-8164 • Email: admin@aegwa.com

FILENAME	DRAWN BY		CHECKED BY		APPROVED BY		PROJECT NUMBER
24-105_VIC-SITE.DWG	JGM	2/9/2024	EM	2/9/2024	EM	2/9/2024	24-105

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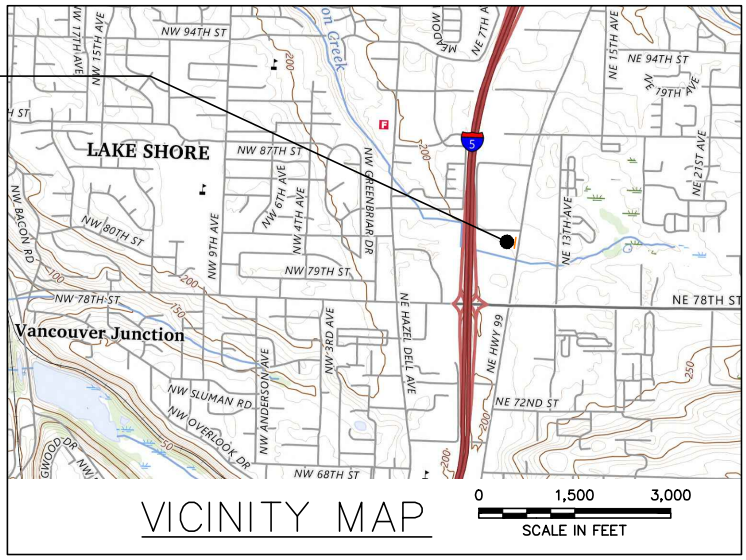
PROJECT LOCATION



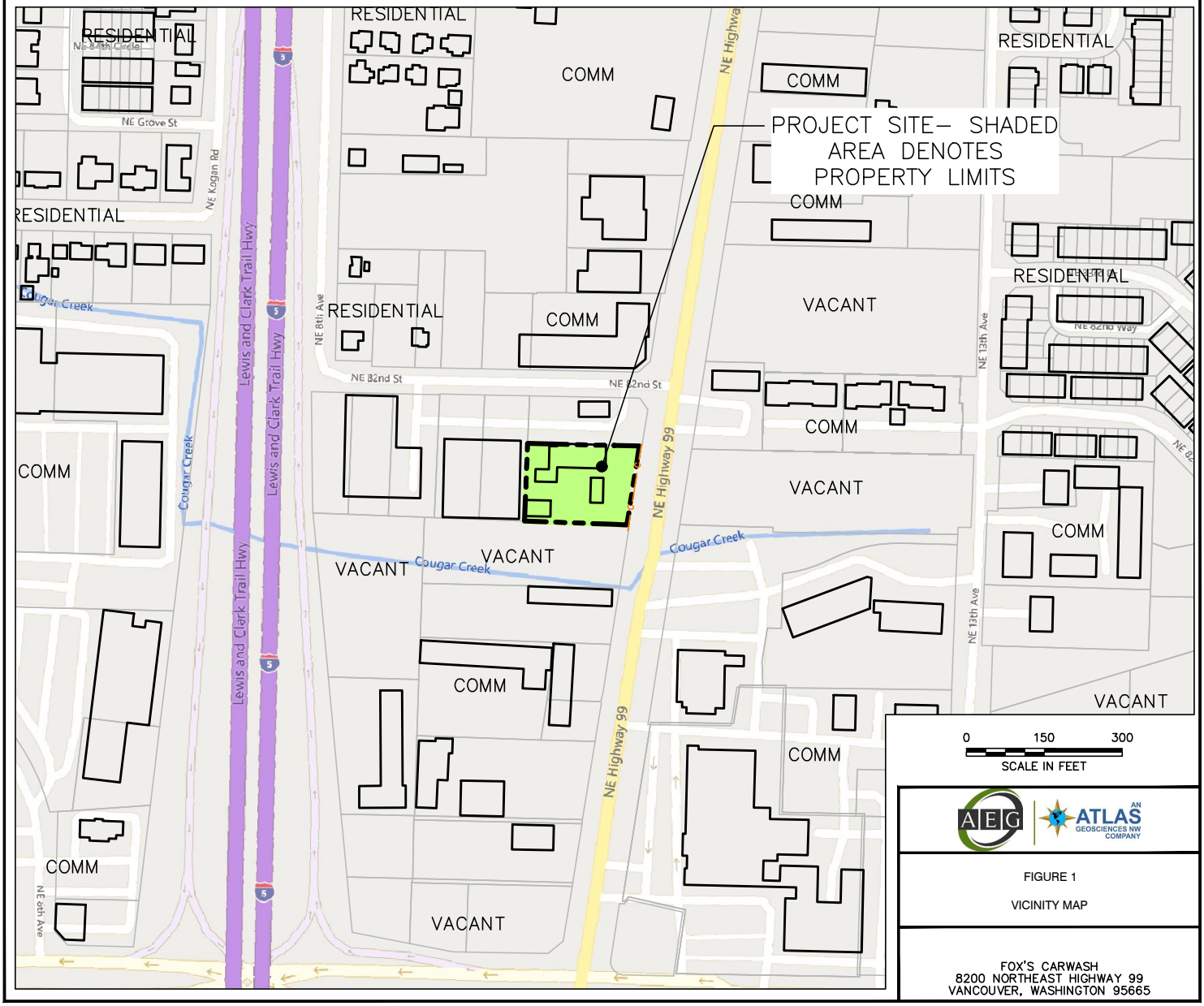
VICINITY MAP

NOTES

1. THE LOCATIONS OF ALL FEATURES SHOWN ARE APPROXIMATE
2. THIS DRAWING IS FOR INFORMATION PURPOSES. IT IS INTENDED TO ASSIST IN SHOWING FEATURES DISCUSSED IN AN ATTACHED DOCUMENT.

REFERENCE

DRAWING CREATED FROM AERIAL PHOTOGRAPH AND NOTES PROVIDED BY AEG, LLC.
VICINITY IMAGE SOURCE: U.S. GEOLOGICAL SURVEY–2017, 7.5 MINUTE QUADRANGLE MAP
VANCOUVER, WASHINGTON



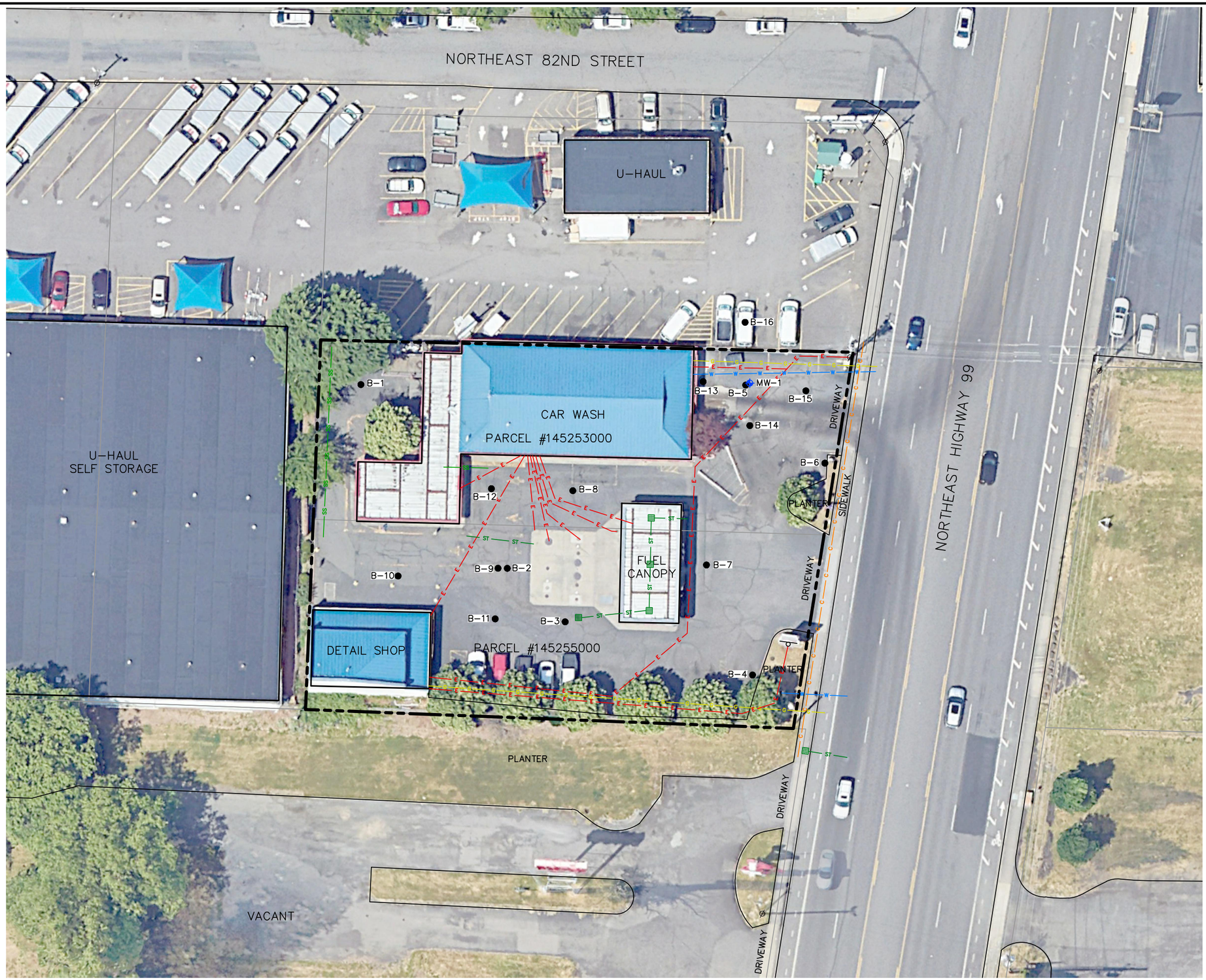
AEG | AN ATLAS GEOSCIENCES NW COMPANY

FIGURE 1

VICINITY MAP

FOX'S CARWASH
8200 NORTHEAST HIGHWAY 99
VANCOUVER, WASHINGTON 95665

FILENAME	DRAWN BY	CHECKED BY	APPROVED BY	PROJECT NUMBER
24-105_VIC-SITE	JGM 4/10/2024	EM 4/10/2024	EM 4/10/2024	24-105



SOURCE: 2023 AERIAL PHOTOGRAPHY; © GOOGLE EARTH

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LEGEND

- PROPERTY PARCEL BOUNDARY (CLARK COUNTY GIS)
- ADJACENT PARCEL BOUNDARY (CLARK COUNTY GIS)
- MW-1 MONITORING WELL LOCATION
- B-1 SOIL BORING LOCATION
- SIGN
- UTILITY POLE
- E E ELECTRIC LINE
- G G GAS LINE
- W W WATER
- ST ST STORM SEWER
- SS SS SANITARY SEWER
- C C COMMUNICATION LINE

NOTES

1. THE LOCATIONS OF ALL FEATURES SHOWN ARE APPROXIMATE
2. THIS DRAWING IS FOR INFORMATION PURPOSES. IT IS INTENDED TO ASSIST IN SHOWING FEATURES DISCUSSED IN AN ATTACHED DOCUMENT.

REFERENCE

DRAWING CREATED FROM AERIAL PHOTOGRAPH AND NOTES PROVIDED BY AEG, LLC.

0 10 20
SCALE IN FEET

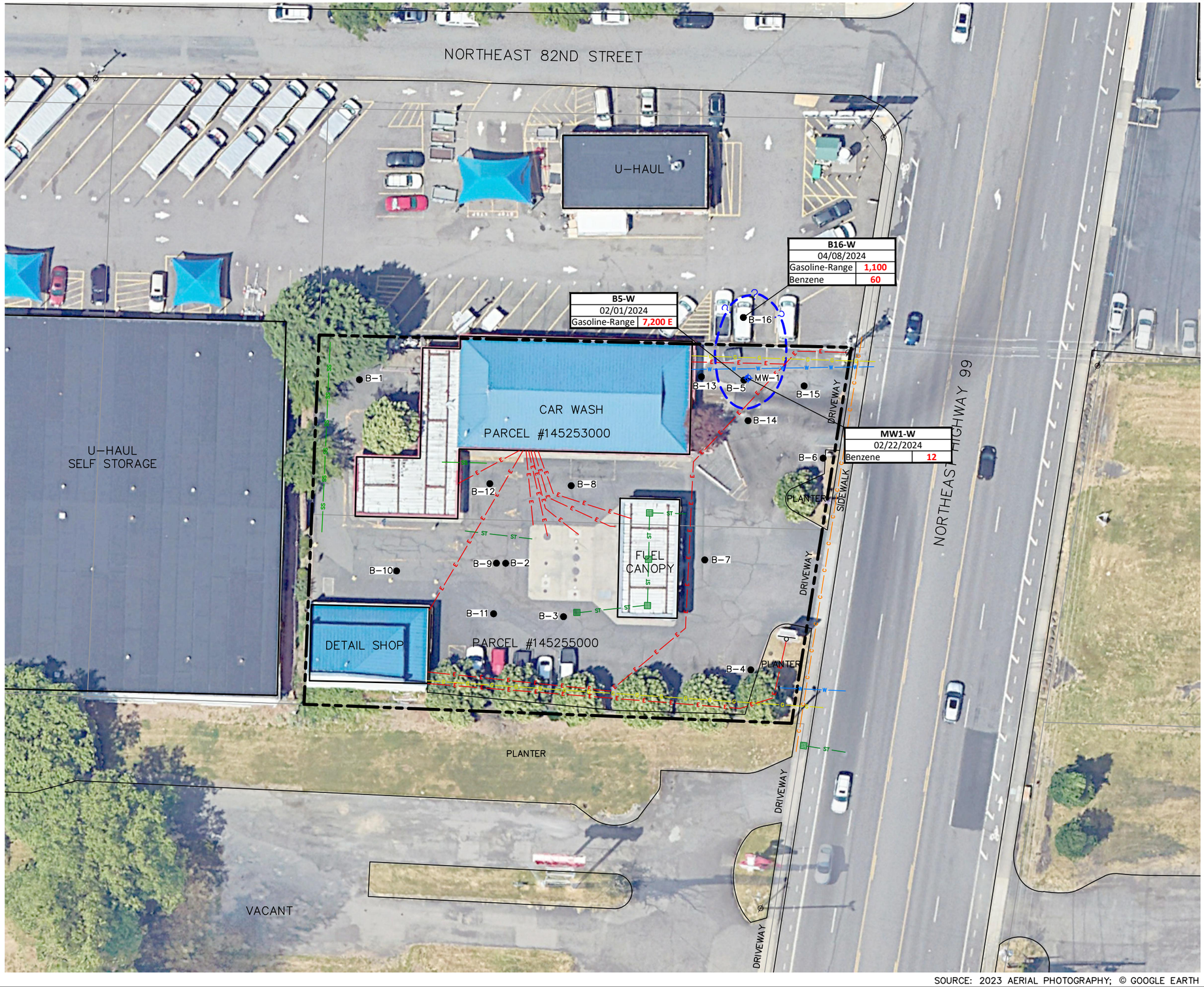
AEG | AN ATLAS GEOSCIENCES NW COMPANY

FIGURE 2

PROPERTY MAP

FOX'S CARWASH
8200 NORTHEAST HIGHWAY 99
VANCOUVER, WASHINGTON 95665

PROJECT NUMBER	APPROVED BY	CHECKED BY	DRAWN BY	FILENAME
24-105	8/13/2024	8/13/2024	8/13/2024	24-105_VIC-SITE
	EM	EM	JGM	



SOURCE: 2023 AERIAL PHOTOGRAPHY; © GOOGLE EARTH

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LEGEND

- PROPERTY PARCEL BOUNDARY (CLARK COUNTY GIS)
- ADJACENT PARCEL BOUNDARY (CLARK COUNTY GIS)
- MW-1 MONITORING WELL LOCATION
- B-1 SOIL BORING LOCATION
- SIGN
- UTILITY POLE
- E E ELECTRIC LINE
- G G GAS LINE
- W W WATER
- ST ST STORM SEWER
- SS SS SANITARY SEWER
- C C COMMUNICATION LINE
- ESTIMATED EXTENT OF TPH IN GROUNDWATER

TABLE KEY

	B16-W	
	04/08/2024	
COMPOUND	Gasoline-Range	1,100
	Benzene	60

SAMPLE ID
DATE OF COLLECTION
CONCENTRATION IN µg/L

ALL RESULTS IN MICROGRAMS PER LITER (µg/L)

RED BOLD INDICATES THE DETECTED CONCENTRATION EXCEEDS ECOLOGY MTCA METHOD A CLEANUP LEVEL

E =REPORTED RESULT IS AN ESTIMATE BECAUSE IT EXCEEDS THE CALIBRATION RANGE

NOTE: RESULTS OF GROUNDWATER SAMPLES FROM LOCATIONS NOT FLAGGED WERE EITHER NON-DETECT OR BELOW MTCA CLEANUP LEVELS

NOTES

1. THE LOCATIONS OF ALL FEATURES SHOWN ARE APPROXIMATE
2. THIS DRAWING IS FOR INFORMATION PURPOSES. IT IS INTENDED TO ASSIST IN SHOWING FEATURES DISCUSSED IN AN ATTACHED DOCUMENT.

REFERENCE

DRAWING CREATED FROM AERIAL PHOTOGRAPH AND NOTES PROVIDED BY AEG, LLC.

0 10 20
SCALE IN FEET

AEG | AN ATLAS GEOSCIENCES NW COMPANY

FIGURE 3

TPH IN GROUNDWATER PLUME MAP

FOX'S CARWASH
8200 NORTHEAST HIGHWAY 99
VANCOUVER, WASHINGTON 95665

TABLES

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Table 1 - Summary of Soil Analytical Results
Fox's Carwash (24-105)
Vancouver, Washington

Sample Number	Depth Collected (feet)	Date Collected	Total Petroleum Hydrocarbons (TPH)			Volatile Organic Compounds			
			Gasoline	Diesel	Heavy Oil	Benzene	Toluene	Ethyl-benzene	Xylenes
B1-15	15.0	1/31/2024	<27	<68	<340	--	--	--	--
B2-10	10.0	1/31/2024	**710 E**	**750**	<340	<0.021	<0.11	<0.053	<0.16
B3-15	15.0	1/31/2024	<29	<72	<360	--	--	--	--
B4-10	10.0	1/31/2024	<27	<68	<340	--	--	--	--
B5-10	10.0	2/1/2024	<28	<70	<350	--	--	--	--
B6-10	10.0	2/1/2024	<27	<69	<340	--	--	--	--
B7-15	15.0	2/1/2024	<28	<71	<350	--	--	--	--
B8-10	10.0	2/1/2024	<28	<70	<350	--	--	--	--
B9-7	7.0	2/22/2024	<8.2	--	--	<0.016	<0.082	<0.041	<0.12
B9-10	10.0	2/22/2024	**320**	--	--	<0.019	<0.095	**0.090**	<0.14
B9-12.5	12.5	2/22/2024	<11	--	--	<0.021	<0.11	<0.054	<0.16
B9-15	15.0	2/22/2024	<9.9	--	--	<0.020	<0.099	<0.050	<0.15
B10-10	10.0	2/22/2024	<9.5	--	--	<0.019	<0.095	<0.047	<0.14
B11-10	10.0	2/22/2024	<9.3	--	--	<0.019	<0.093	<0.046	<0.14
B12-7.5	7.5	2/22/2024	<9.5	--	--	<0.019	<0.095	<0.047	<0.14
B12-10	10.0	2/22/2024	<9.6	--	--	<0.019	<0.096	<0.048	<0.14
B12-15	15.0	2/22/2024	<6.6	--	--	<0.013	<0.066	<0.033	<0.098
B13-5	5.0	4/8/2024	<11	--	--	<0.021	<0.11	<0.053	<0.16
B13-10	10.0	4/8/2024	<11	--	--	<0.022	<0.11	<0.054	<0.16
B13-15	15.0	4/8/2024	<11	--	--	<0.022	<0.11	<0.055	<0.16
B14-5	5.0	4/8/2024	<10	--	--	<0.020	<0.10	<0.021	<0.15
B14-10	10.0	4/8/2024	<11	--	--	<0.021	<0.11	<0.053	<0.16
B14-15	15.0	4/8/2024	<11	--	--	<0.021	<0.11	<0.053	<0.16
B15-5	5.0	4/8/2024	<10	--	--	<0.021	<0.10	<0.052	<0.15
B15-10	10.0	4/8/2024	<11	--	--	<0.021	<0.11	<0.054	<0.16
B15-15	15.0	4/8/2024	<11	--	--	<0.022	<0.11	<0.055	<0.16
B16-5	5.0	4/8/2024	<11	--	--	**0.034**	<0.11	<0.053	<0.16
B16-10	10.0	4/8/2024	<11	--	--	<0.021	<0.11	<0.053	<0.16
B16-15	15.0	4/8/2024	<11	--	--	<0.023	<0.11	<0.057	<0.17
MTCA Method A Cleanup Levels			30/100*	2,000		0.03	7	6	9
MTCA Method B Cleanup Levels for Protection of Direct Contact			870			18	6,400	8,000	16,000

Table 1 - Summary of Soil Analytical Results

Fox's Carwash (24-105)

Vancouver, Washington

Sample Number	Depth Collected (feet)	Date Collected	Total Petroleum Hydrocarbons (TPH)			Volatile Organic Compounds			
			Gasoline	Diesel	Heavy Oil	Benzene	Toluene	Ethyl-benzene	Xylenes

Notes:

All values are presented in milligrams per kilogram (mg/kg)

< = Not detected at the listed laboratory detection limits

-- = Not analyzed for constituent/not available/not applicable

Red Bold indicates the detected concentration exceeds MTCA Method A cleanup level

Bold indicates the detected concentration is below MTCA Method A cleanup levels

E = Reported value is above the calibration range and is an estimate

* TPH-Gasoline Cleanup Level with/without the presence of Benzene anywhere at the Site

Table 2 - Summary of Groundwater Analytical Results

Fox's Carwash (24-105)

Vancouver, Washington

Sample Number	Date Collected	Total Petroleum Hydrocarbons (TPH)			Volatile Organic Compounds			
		Gasoline	Diesel	Heavy Oil	Benzene	Toluene	Ethyl-benzene	Xylenes
B1-W	1/31/2024	<200	<500	<500	--	--	--	--
B2-W	1/31/2024	<200	<500	<500	--	--	--	--
B3-W	1/31/2024	<200	<500	<500	--	--	--	--
B4-W	1/31/2024	<200	<500	<500	--	--	--	--
B5-W	2/1/2024	**7,200 E**	<500	<500	--	--	--	--
B6-W	2/1/2024	<200	<500	<500	--	--	--	--
B7-W	2/1/2024	<200	<500	<500	--	--	--	--
B8-W	2/1/2024	<200	<500	<500	--	--	--	--
B9-W	2/22/2024	**400**	--	--	<1.0	<2.0	**1.1**	**3.0**
B10-W	2/22/2024	<200	--	--	<1.0	<2.0	<1.0	<2.0
B11-W	2/22/2024	<200	--	--	<1.1	<2.1	<1.1	<2.1
MW1-W	2/22/2024	**480**	--	--	**12**	<2.0	<1.0	**250**
B13-W	4/8/2024	<100	--	--	<1.0	<2.0	<1.0	<2.0
B14-W	4/8/2024	<100	--	--	<1.0	<2.0	<1.0	<2.0
B15-W	4/8/2024	<100	--	--	<1.0	<2.0	<1.0	<2.0
B16-W	4/8/2024	**1,100**	--	--	**60**	**210**	**16**	**190**
MTCA Method A Cleanup Levels		800/1,000*	500		5	1,000	700	1,000

Notes:

All values are presented in micrograms per liter (µg/L)

< = Not detected at the listed laboratory detection limits

-- = Not analyzed for constituent/not available/not applicable

Red Bold indicates the detected concentration exceeds MTCA Method A cleanup level

Bold indicates the detected concentration is less than MTCA Method A cleanup level

E = Reported value is above the calibration range and is an estimate

* TPH-Gasoline Cleanup Level with/without the presence of Benzene anywhere at the Site

APPENDIX A

Boring and Well Logs

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AEG Atlas, LLC

LOG OF BOREHOLE

PROJECT: Fox's Carwash	JOB # 24-105	BORING # B-1	PAGE 1 of 1
Location: 8200 NE Hwy 99, Vancouver, WA 98665	Approximate elevation:		
Subcontractor/Driller: Direct Push	Equipment / Drilling Method: Truck Mounted Direct Push		
Date: January 31, 2024	Logged by: Edvard M.		

Boring Depth (feet)	Soil Description	Unified Soil Symbol	Sample Type	Sample Recovery (%)	Sample Number	Time	Blows/Foot	PID Reading	Sheen	Comments
	Asphalt Surface									
	Brown stiff gravelly silt	ML								
	Brown moist silt	ML								
5				100	N/A	N/A	N/A	0.1	N	
10				100	N/A	N/A	N/A	0.1	N	
	Brown sandy silt, moist	ML								
15				100	B1-15	12:40	N/A	0.1	N	ATD
20				100	N/A	N/A	N/A	0.1	N	
	TD= 20ft bgs									
25										
30										

Explanation

- Soil sample interval
- No Recovery
- Contact located approximately

Groundwater level at time of drilling or date of measurement

AEG Atlas, LLC

LOG OF BOREHOLE

PROJECT: Fox's Carwash	JOB # 24-105	BORING # B-2	PAGE 1 of 1
Location: 8200 NE Hwy 99, Vancouver, WA 98665	Approximate elevation:		
Subcontractor/Driller: Direct Push	Equipment / Drilling Method: Truck Mounted Direct Push		
Date: January 31, 2024	Logged by: Edvard M.		

Boring Depth (feet)	Soil Description	Unified Soil Symbol	Sample Type	Sample Recovery (%)	Sample Number	Time	Blows/Foot	PID Reading	Sheen	Comments
	Asphalt Surface									strong ambient gasoline smell in the air, PID readings may be biased high
5	Silty gravel, well sorted	GM		40	N/A	N/A	N/A	9.0		
	Pea gravel	GM								
	Wet gray sandy silt	ML								ATD
10				66	B2-10	13:50	N/A	48.0		
	TD= 10ft bgs									
15										
20										
25										
30										

Explanation

- Soil sample interval
- No Recovery
- Contact located approximately

Groundwater level at time of drilling or date of measurement

AEG Atlas, LLC

LOG OF BOREHOLE

PROJECT: Fox's Carwash	JOB # 24-105	BORING # B-3	PAGE 1 of 1
Location: 8200 NE Hwy 99, Vancouver, WA 98665	Approximate elevation:		
Subcontractor/Driller: Direct Push	Equipment / Drilling Method: Truck Mounted Direct Push		
Date: January 31, 2024	Logged by: Edvard M.		

Boring Depth (feet)	Soil Description	Unified Soil Symbol	Sample Type	Sample Recovery (%)	Sample Number	Time	Blows/Foot	PID Reading	Sheen	Comments
	Asphalt Surface									
5				No Rec.	N/A	N/A	N/A	N/A		
	Pea Gravel	GM								
10				No Rec.	N/A	N/A	N/A	N/A		
15	Gray-brown sandy silt	ML		80	B3-15	14:40	N/A	0.1		
	TD= 15ft bgs									
20										
25										
30										

Explanation

Soil sample interval

No Recovery

Contact located approximately

Groundwater level at time of drilling or date of measurement

AEG Atlas, LLC

LOG OF BOREHOLE

PROJECT: Fox's Carwash	JOB # 24-105	BORING # B-4	PAGE 1 of 1
Location: 8200 NE Hwy 99, Vancouver, WA 98665	Approximate elevation:		
Subcontractor/Driller: Direct Push	Equipment / Drilling Method: Truck Mounted Direct Push		
Date: January 31, 2024	Logged by: Edvard M.		

Boring Depth (feet)	Soil Description	Unified Soil Symbol	Sample Type	Sample Recovery (%)	Sample Number	Time	Blows/Foot	PID Reading	Sheen	Comments
	Asphalt Surface									
	Brown silt	ML								
5				66	N/A	N/A	N/A	0.2		
	Becomes moist									
10				100	B4-10	15:20	N/A	0.6		ATD
	Becomes wet									
15				No Rec.	N/A	N/A	N/A	N/A		Too wet, soil slid out of sampler
	TD=15ft bgs									
20										
25										
30										

Explanation

- Soil sample interval
- No Recovery
- Contact located approximately
- Groundwater level at time of drilling or date of measurement

AEG Atlas, LLC

LOG OF BOREHOLE

PROJECT: Fox's Carwash	JOB # 24-105	BORING # B-5	PAGE 1 of 1
Location: 8200 NE Hwy 99, Vancouver, WA 98665	Approximate elevation:		
Subcontractor/Driller: Direct Push	Equipment / Drilling Method: Truck Mounted Direct Push		
Date: February 1, 2024	Logged by: Edvard M.		

Boring Depth (feet)	Soil Description	Unified Soil Symbol	Sample Type	Sample Recovery (%)	Sample Number	Time	Blows/Foot	PID Reading	Sheen	Comments
	Asphalt Surface									
5	Brown silt	ML		66	N/A	N/A	N/A	0.6		
	Brown sandy silt	ML								
10				100	B5-10	8:20	N/A	0.1		ATD
15				No Rec.	N/A	N/A	N/A	N/A		Too wet, soil slid out of sampler
	TD=15ft bgs									
20										
25										
30										

Explanation

Soil sample interval

No Recovery

Contact located approximately

Groundwater level at time of drilling or date of measurement

AEG Atlas, LLC

LOG OF BOREHOLE

PROJECT: Fox's Carwash		JOB # 24-105		BORING # B-6	PAGE 1 of 1
Location: 8200 NE Hwy 99, Vancouver, WA 98665		Approximate elevation:			
Subcontractor/Driller: Direct Push		Equipment / Drilling Method: Truck Mounted Direct Push			
Date: February 1, 2024		Logged by: Edvard M.			

Boring Depth (feet)	Soil Description	Unified Soil Symbol	Sample Type	Sample Recovery (%)	Sample Number	Time	Blows/Foot	PID Reading	Sheen	Comments
	Asphalt Surface									
5	Brown silt	ML		66	N/A	N/A	N/A	0.1		
	Brown sandy silt, moist	ML								
10				90	B6-10	9:15	N/A	0.1		ATD
15				25	N/A	N/A	N/A	0.1		
	TD= 15ft bgs									
20										
25										
30										

Explanation

Soil sample interval

No Recovery

Contact located approximately

Groundwater level at time of drilling or date of measurement

AEG Atlas, LLC

LOG OF BOREHOLE

PROJECT: Fox's Carwash	JOB # 24-105	BORING # B-7	PAGE 1 of 1
Location: 8200 NE Hwy 99, Vancouver, WA 98665	Approximate elevation:		
Subcontractor/Driller: Direct Push	Equipment / Drilling Method: Truck Mounted Direct Push		
Date: February 1, 2024	Logged by: Edvard M.		

Boring Depth (feet)	Soil Description	Unified Soil Symbol	Sample Type	Sample Recovery (%)	Sample Number	Time	Blows/Foot	PID Reading	Sheen	Comments
	Asphalt Surface									
	Brown silt	ML								
	Brown sandy silt	ML								
5	moist			50	N/A	N/A	N/A	0.1		
10				100	N/A	N/A	N/A	0.1		
15				100	B7-15	10:10	N/A	0.1		
	Wet									ATD
20				100	N/A	N/A	N/A	0.1		
	TD= 20ft bgs									
25										
30										

Explanation

Soil sample interval

No Recovery

Contact located approximately

Groundwater level at time of drilling or date of measurement

AEG Atlas, LLC

LOG OF BOREHOLE

PROJECT:	Fox's Carwash	JOB #	24-105	BORING #	B-8 PAGE 1 of 1
Location:	8200 NE Hwy 99, Vancouver, WA 98665	Approximate elevation:			
Subcontractor/Driller:	Direct Push	Equipment / Drilling Method:	Truck Mounted Direct Push		
Date:	February 1, 2024	Logged by:	Edvard M.		

Boring Depth (feet)	Soil Description	Unified Soil Symbol	Sample Type	Sample Recovery (%)	Sample Number	Time	Blows/Foot	PID Reading	Sheen	Comments
	Asphalt Surface									
	Brown silt	ML								
	Brown sandy silt	SM								
5				50	N/A	N/A	N/A	0.1		
10	Becomes grey			100	B8-10	11:00	N/A	0.1		
	Becomes brown and wet									ATD
15				100	N/A	N/A	N/A	0.1		
	TD=15ft bgs									
20										
25										
30										

Explanation

Soil sample interval

No Recovery

Contact located approximately

Groundwater level at time of drilling or date of measurement

AEG Atlas, LLC

LOG OF BOREHOLE

PROJECT: Fox's Carwash	JOB # 24-105	BORING # B-9	PAGE 1 of 1
Location: 8200 NE Hwy 99, Vancouver, WA 98665	Approximate elevation:		
Subcontractor/Driller: Direct Push	Equipment / Drilling Method: Track Mounted Direct Push		
Date: February 22, 2024	Logged by: Edvard M.		

Boring Depth (feet)	Soil Description	Unified Soil Symbol	Sample Type	Sample Recovery (%)	Sample Number	Time	Blows/Foot	PID Reading	Sheen	Comments
	Asphalt Surface									
	Silty gravel, poorly sorted	GM								
5				33	B9-5	11:30	N/A	0.2		
	Silty sand, brown	SM								
					B9-7	11:40	N/A	0.2		
	becomes grey									
10		ATD		100	B9-10	11:46	N/A	78.5		
	becomes brown and wet									
					B9-12.5	11:50	N/A	0.1		
15				100	B9-15	12:05	N/A	0.1		
	TD=15ft bgs									
20										
25										
30										

Explanation

Soil sample interval

No Recovery

Contact located approximately

Groundwater level at time of drilling or date of measurement

AEG Atlas, LLC

LOG OF BOREHOLE

PROJECT: Fox's Carwash	JOB # 24-105	BORING # B-10	PAGE 1 of 1
Location: 8200 NE Hwy 99, Vancouver, WA 98665	Approximate elevation:		
Subcontractor/Driller: Direct Push	Equipment / Drilling Method: Track Mounted Direct Push		
Date: February 22, 2024	Logged by: Edvard M.		

Boring Depth (feet)	Soil Description	Unified Soil Symbol	Sample Type	Sample Recovery (%)	Sample Number	Time	Blows/Foot	PID Reading	Sheen	Comments
	Asphalt surface									
	Brown silt	ML								
5				50	B10-5	12:55	N/A	0.1		
	Brown silty sand	SM								
					B10-7.5	13:00	N/A	0.1		
10				75	B10-10	13:10	N/A	0.1		
		ATD								
					B10-12.5	13:13	N/A	0.1		
15				100	B10-15	13:18	N/A	0.1		
	TD=15ft bgs									
20										
25										
30										

Explanation

Soil sample interval

No Recovery

Contact located approximately

Groundwater level at time of drilling or date of measurement

AEG Atlas, LLC

LOG OF BOREHOLE

PROJECT: Fox's Carwash	JOB # 24-105	BORING # B-11	PAGE 1 of 1
Location: 8200 NE Hwy 99, Vancouver, WA 98665	Approximate elevation:		
Subcontractor/Driller: Direct Push	Equipment / Drilling Method: Track Mounted Direct Push		
Date: February 22, 2024	Logged by: Edvard M.		

Boring Depth (feet)	Soil Description	Unified Soil Symbol	Sample Type	Sample Recovery (%)	Sample Number	Time	Blows/Foot	PID Reading	Sheen	Comments
	Asphalt surface									
	Brown silt	ML								
5				50	B11-5	13:40	N/A	0.1		
	Brown silty sand	SM								
					B11-7.5	13:45	N/A	0.1		
10				100	B11-10	13:50	N/A	0.1		
		ATD								
					B11-12.5	14:00	N/A	0.1		
15				100	B11-15	14:02	N/A	0.1		
	TD=15ft bgs									
20										
25										
30										

Explanation

- Soil sample interval
- No Recovery
- Contact located approximately
- Groundwater level at time of drilling or date of measurement

AEG Atlas, LLC

LOG OF BOREHOLE

PROJECT: Fox's Carwash		JOB # 24-105		BORING # B-12	PAGE 1 of 1
Location: 8200 NE Hwy 99, Vancouver, WA 98665		Approximate elevation:			
Subcontractor/Driller: Direct Push		Equipment / Drilling Method: Track Mounted Direct Push			
Date: February 22, 2024		Logged by: Edvard M.			

Boring Depth (feet)	Soil Description	Unified Soil Symbol	Sample Type	Sample Recovery (%)	Sample Number	Time	Blows/Foot	PID Reading	Sheen	Comments
	Asphalt surface									
	Brown silt	ML								
5				25	B12-5	14:30	N/A	0.1		
	Brown silty sand	SM			B12-7.5	14:40	N/A	0.1		
10		ATD		75	B12-10	14:50	N/A	2.1		
15				25	B12-15	15:00	N/A	0.8		
	TD=15ft bgs									
20										
25										
30										

Explanation

- Soil sample interval
- No Recovery
- Contact located approximately
- Groundwater level at time of drilling or date of measurement

AEG Atlas, LLC

LOG OF BOREHOLE

PROJECT: Fox's Carwash	JOB # 24-105	BORING # B-13	PAGE 1 of 1
Location: 8200 NE Hwy 99, Vancouver, WA 98665	Approximate elevation:		
Subcontractor/Driller: Direct Push	Equipment / Drilling Method: Track Mounted Direct Push		
Date: April 8, 2024	Logged by: Edvard M.		

Boring Depth (feet)	Soil Description	Unified Soil Symbol	Sample Type	Sample Recovery (%)	Sample Number	Time	Blows/Foot	PID Reading	Sheen	Comments
	Concrete surface									
	Brown silt									
5				50	B13-5	11:11	N/A	N	N	
	Brown silty sand									
10	Becomes wet	ATD		75	B13-10	11:15	N/A	N	N	
15				50	B13-15	11:20	N/A	N	N	
	TD=15ft bgs									
20										
25										
30										

Explanation

- Soil sample interval
- No Recovery
- Contact located approximately
- ATD — Groundwater level at time of drilling or date of measurement

AEG Atlas, LLC

LOG OF BOREHOLE

PROJECT: Fox's Carwash	JOB # 24-105	BORING # B-14	PAGE 1 of 1
Location: 8200 NE Hwy 99, Vancouver, WA 98665	Approximate elevation:		
Subcontractor/Driller: Direct Push	Equipment / Drilling Method: Track Mounted Direct Push		
Date: April 8, 2024	Logged by: Edvard M.		

Boring Depth (feet)	Soil Description	Unified Soil Symbol	Sample Type	Sample Recovery (%)	Sample Number	Time	Blows/Foot	PID Reading	Sheen	Comments
	Asphalt surface									
	Brown sandy silt									
5				75	B14-5	11:34	N/A	N	N	
	Brown silty sand									
10	Becomes wet	ATD		50	B14-10	11:38	N/A	N	N	
15				90	B14-15	11:46	N/A	N	N	
	TD=15ft bgs									
20										
25										
30										

Explanation

- Soil sample interval
- No Recovery
- Contact located approximately
- ATD — Groundwater level at time of drilling or date of measurement

AEG Atlas, LLC

LOG OF BOREHOLE

PROJECT: Fox's Carwash	JOB # 24-105	BORING # B-15	PAGE 1 of 1
Location: 8200 NE Hwy 99, Vancouver, WA 98665	Approximate elevation:		
Subcontractor/Driller: Direct Push	Equipment / Drilling Method: Track Mounted Direct Push		
Date: April 8, 2024	Logged by: Edvard M.		

Boring Depth (feet)	Soil Description	Unified Soil Symbol	Sample Type	Sample Recovery (%)	Sample Number	Time	Blows/Foot	PID Reading	Sheen	Comments
	Asphalt surface									
	Brown silt									
5				50	B15-5	11:55	N/A	N	N	
	Brown silty sand									
10				100	B15-10	12:01	N/A	N	N	
	Becomes wet	ATD								
15				90	B15-15	12:06	N/A	N	N	
	TD=15ft bgs									
20										
25										
30										

Explanation

- Soil sample interval
- No Recovery
- Contact located approximately
- ATD — Groundwater level at time of drilling or date of measurement

AEG Atlas, LLC

LOG OF BOREHOLE

PROJECT: Fox's Carwash	JOB # 24-105	BORING # B-16	PAGE 1 of 1
Location: 8200 NE Hwy 99, Vancouver, WA 98665	Approximate elevation:		
Subcontractor/Driller: Direct Push	Equipment / Drilling Method: Track Mounted Direct Push		
Date: April 8, 2024	Logged by: Edvard M.		

Boring Depth (feet)	Soil Description	Unified Soil Symbol	Sample Type	Sample Recovery (%)	Sample Number	Time	Blows/Foot	PID Reading	Sheen	Comments
	Asphalt surface									
	Brown silt									
5				75	B16-5	13:15	N/A	N	N	
	Brown silty sand									
10				100	B16-10	13:25	N/A	N	N	
	Becomes wet	ATD								
15				100	B16-15	13:37	N/A	N	N	
	TD=15ft bgs									
20										
25										
30										

Explanation

Soil sample interval

No Recovery

Contact located approximately

Groundwater level at time of drilling or date of measurement

LOG OF BOREHOLE

PROJECT:	*Fox's Carwash*	**JOB #**	*24-105*	**BORING #** *MW-1*	**PAGE 1 of 1**
Location:	*8200 NE Hwy 99, Vancouver, WA 98665*	**Approximate elevation:**			
Subcontractor/Driller:	*Direct Push*	**Equipment / Drilling Method:**	*Track Mounted Direct Push*		
Date:	*February 22, 2024*	**Logged by:**	*Edvard M.*		

Boring Depth (feet)	Soil Description	Unified Soil Symbol	Sample Depth	Sample Recovery (%)	Sample Number	Time	Blows/Foot	PID Reading	Sheen	Monitoring Well Construction
	Asphalt surface									
	Brown silty sand	SM								
5		▽ ATD		75	MW1-5	10:05	N/A	0.5		
10				100	MW1-10	10:10	N/A	0.1		
15				100	MW1-15	10:20	N/A	0.1		
	TD=18ft bgs									
20										
25										

Explanation

- Sample Advance / Recovery
- No Recovery
- Contact located approximately
- ▽ ATD Groundwater level at time of drilling or date of measurement

Monitoring Well Construction

- Grout/Concrete
- 3/4-inch bentonite chips
- Silica sand
- 2-inch diameter blank PVC casing from
- 2-inch diameter PVC 0.01 slotted screen

Ecology Tag # BPR-875

APPENDIX B

Laboratory Datasheets

2633 Parkmont Lane SW, Suite A • Olympia, WA • 98502
Phone: 360-352-9835 • Fax: 360-352-8164 • Email: admin@aegwa.com

Libby Environmental, Inc.

3322 South Bay Road NE • Olympia, WA 98506-2957

Phone (360) 352-2110 • libbyenv@gmail.com

February 08, 2024

Scott Rose
AEG an Atlas Geosciences NW Company
2633 Parkmont Lane SW, Suite A
Olympia, WA 98502

RE: Fox's Carwash
Work Order Number: L24B004

Enclosed are the results of analyses for samples received by our laboratory on 2/1/2024.

Applicable detection limits and QA/QC data are included. The sample(s) will be disposed of within 30 days unless we are contacted to arrange long term storage.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please feel free to contact us. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Sherry Chilcutt
Senior Chemist

Libby Environmental, Inc.

3322 South Bay Road NE
Olympia, WA 98506
Ph: 360-352-2110
Fax: 360-352-4154

Chain of Custody Record

www.LibbyEnvironmental.c

Date: 2/1/24 Page: 1 of 1

Client: AEG Atlas, LLC
Project Manager: Scott Rose
Address:
Project Name: Fox's Carwash
City: State: Zip:
Location: City, State: Vancouver, WA
Phone: Fax:
Collector: Edward M. Date of Collection: 1/31/24 + 2/1/24
Client Project # 24-105
Email: srose@aegwa.com

Sample Number	Depth	Time	Sample Type	Container Type	VOC 8260	PCE & Daughter Prod.	NWTPH-Gx	BTEX (8260) / (8021)	NWTPH-HCID	NWTPH-Dx / Dx	PCB 8082	MTCA 5 Metals	RCRA 8 Metals	c PAH 8270	PAH 8270	Semi Vol 8270	HCID	Field Notes
1 B1-15	15'	12:40	Soil	4 Oz														Collected 1/31/24
2 B2-10	10'	13:50	"	"														"
3 B3-15	15'	14:40	"	"														"
4 B4-10	10'	15:20	"	"														"
5 B1-W	N/A	13:20	GW	Amber														"
6 B2-W	"	14:10	"	"														"
7 B3-W	"	15:00	"	"														"
8 B4-W	"	15:40	"	"														"
9 B5-10	10'	8:20	Soil	4 Oz														Collected 2/1/24
10 B6-10	10'	9:15	"	"														"
11 B7-15	15'	10:00	"	"														"
12 B8-10	10'	11:00	"	"														"
13 B5-W	N/A	9:20	GW	Amber														"
14 B6-W	"	9:45	"	"														"
15 B7-W	"	10:35	"	"														"
16 B8-W	"	11:22	"	"														"
17																		

Relinquished by:	Date / Time	Received by:	Date / Time
[signature]	2/1/24 1418	[signature]	2.1.24 1418
Relinquished by:	Date / Time	Received by:	Date / Time
Relinquished by:	Date / Time	Received by:	Date / Time

Sample Receipt

Good Condition?	Y	N
Cooler Temp.		°C
Sample Temp.		°C
Total Number of Containers		

Remarks:

TAT: 1-Day 2-Day 5-DAY

Distribution: White - Lab, Yellow - Originator

Libby Environmental, Inc.

AEG an Atlas Geosciences NW Company	**Project:** Fox's Carwash	**City/State:** Vancouver, WA
2633 Parkmont Lane SW, Suite A	**Project Number:** 24-105	**Work Order:** L24B004
Olympia, WA 98502	**Project Manager:** Scott Rose	**Reported:** 02/08/2024 15:58

Work Order Case Narrative

Sample B2-10 was extracted out of Hold time for Gasoline & BTEX. Results may be biased low.

Sample B5-W was analyzed by HCID. The Gasoline concentration should be considered an estimate.

Notes and Definitions

Item	Definition
E	Reported value is above the calibration range and should be considered an estimate.
H	Holding times for preservation, preparation, or analysis exceeded.
S4	Outlying surrogate recovery(ies) observed.
RL	Reporting Limit
ND	Analyte NOT DETECTED at or above the reporting limit
DET	Analyte DETECTED at or above the reporting limit
Qual	Qualifier
	All results reported on an "as received" basis unless indicated by "Dry"
RPD	Relative Percent Difference
%REC	Percent Recovery
Parent	Sample that was matrix spiked or duplicated

Work Order Sample Summary

Lab ID	Sample	Matrix	Date Sampled	Date Received
L24B004-01	B1-15	Soil	01/31/2024	02/01/2024
L24B004-02	B2-10	Soil	01/31/2024	02/01/2024
L24B004-03	B3-15	Soil	01/31/2024	02/01/2024
L24B004-04	B4-10	Soil	01/31/2024	02/01/2024
L24B004-05	B1-W	Water	01/31/2024	02/01/2024
L24B004-06	B2-W	Water	01/31/2024	02/01/2024
L24B004-07	B3-W	Water	01/31/2024	02/01/2024
L24B004-08	B4-W	Water	01/31/2024	02/01/2024
L24B004-09	B5-10	Soil	02/01/2024	02/01/2024
L24B004-10	B6-10	Soil	02/01/2024	02/01/2024
L24B004-11	B7-15	Soil	02/01/2024	02/01/2024
L24B004-12	B8-10	Soil	02/01/2024	02/01/2024
L24B004-13	B5-W	Water	02/01/2024	02/01/2024
L24B004-14	B6-W	Water	02/01/2024	02/01/2024
L24B004-15	B7-W	Water	02/01/2024	02/01/2024
L24B004-16	B8-W	Water	02/01/2024	02/01/2024

Libby Environmental, Inc.

AEG an Atlas Geosciences NW Company	**Project:** Fox's Carwash	**City/State:** Vancouver, WA
2633 Parkmont Lane SW, Suite A	**Project Number:** 24-105	**Work Order:** L24B004
Olympia, WA 98502	**Project Manager:** Scott Rose	**Reported:** 02/08/2024 15:58

Libby Environmental Sample Detection Summary

Analyte	Result	Qual	Units	RL	Method
Sample: **B2-10**			Lab#: L24B004-02		
Diesel	750		mg/kg dry	69	NWTPH-Dx
Gasoline	710	E	mg/kg dry	11	NWTPH-Gx
Gasoline	DET		mg/kg dry	27	NWTPH-HCID
Diesel	DET		mg/kg dry	69	NWTPH-HCID
Sample: **B5-W**			Lab#: L24B004-13		
Gasoline	7200	E	ug/L	200	NWTPH-Gx
Gasoline	DET		ug/L	200	NWTPH-HCID

Note: If no entry is made, then no target compounds were detected.

Libby Environmental, Inc.

AEG an Atlas Geosciences NW Company	**Project:** Fox's Carwash	**City/State:** Vancouver, WA
2633 Parkmont Lane SW, Suite A	**Project Number:** 24-105	**Work Order:** L24B004
Olympia, WA 98502	**Project Manager:** Scott Rose	**Reported:** 02/08/2024 15:58

Sample Results

Client Sample ID: B1-15

Lab ID: L24B004-01 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
HCID by NWTPH-HCID						
Gasoline	ND		27	mg/kg dry	02/02/2024	CA
Diesel	ND		68	mg/kg dry	02/02/2024	CA
Oil	ND		340	mg/kg dry	02/02/2024	CA
Surrogate: 2-FBP	*102%*		*43.6-129*		*02/02/2024*	*CA*
Moisture by ASTM D2216-19						
Moisture	26		0.50	%	02/02/2024	JC

AEG an Atlas Geosciences NW Company
2633 Parkmont Lane SW, Suite A
Olympia, WA 98502

Project: Fox's Carwash
Project Number: 24-105
Project Manager: Scott Rose

City/State: Vancouver, WA
Work Order: L24B004
Reported: 02/08/2024 15:58

Sample Results (Continued)

Client Sample ID: B2-10

Lab ID: L24B004-02 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D						
Benzene	ND	H	0.021	mg/kg dry	02/08/2024	SC
Toluene	ND	H	0.11	mg/kg dry	02/08/2024	SC
Ethylbenzene	ND	H	0.053	mg/kg dry	02/08/2024	SC
Total Xylenes	ND	H	0.16	mg/kg dry	02/08/2024	SC
Surrogate: Dibromofluoromethane	*103%*	*H*	*22.9-220*		*02/08/2024*	*SC*
Surrogate: 1,2-Dichloroethane-d4	*114%*	*H*	*32.2-196*		*02/08/2024*	*SC*
Surrogate: Toluene-d8	*114%*	*H*	*47.3-146*		*02/08/2024*	*SC*
Surrogate: 4-Bromofluorobenzene	*139%*	*H, S4*	*38.4-136*		*02/08/2024*	*SC*
Gasoline by Method NWTPH-Gx						
Gasoline	710	E	11	mg/kg dry	02/08/2024	SC
Surrogate: Toluene-d8	*114%*		*47.3-146*		*02/08/2024*	*SC*
HCID by NWTPH-HCID						
Gasoline	DET		27	mg/kg dry	02/02/2024	CA
Diesel	DET		69	mg/kg dry	02/02/2024	CA
Oil	ND		340	mg/kg dry	02/02/2024	CA
Surrogate: 2-FBP	*108%*		*43.6-129*		*02/02/2024*	*CA*
Diesel by NWTPH-Dx						
Diesel	750		69	mg/kg dry	02/02/2024	CA
Surrogate: 2-FBP	*108%*		*43.6-129*		*02/02/2024*	*CA*
Moisture by ASTM D2216-19						
Moisture	27		0.50	%	02/02/2024	JC

AEG an Atlas Geosciences NW Company
2633 Parkmont Lane SW, Suite A
Olympia, WA 98502

Project: Fox's Carwash
Project Number: 24-105
Project Manager: Scott Rose

City/State: Vancouver, WA
Work Order: L24B004
Reported: 02/08/2024 15:58

Sample Results (Continued)

Client Sample ID: B3-15

Lab ID: L24B004-03 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
HCID by NWTPH-HCID						
Gasoline	ND		29	mg/kg dry	02/02/2024	CA
Diesel	ND		72	mg/kg dry	02/02/2024	CA
Oil	ND		360	mg/kg dry	02/02/2024	CA
Surrogate: 2-FBP	*105%*		*43.6-129*		*02/02/2024*	*CA*
Moisture by ASTM D2216-19						
Moisture	30		0.50	%	02/02/2024	JC

AEG an Atlas Geosciences NW Company
2633 Parkmont Lane SW, Suite A
Olympia, WA 98502

Project: Fox's Carwash
Project Number: 24-105
Project Manager: Scott Rose

City/State: Vancouver, WA
Work Order: L24B004
Reported: 02/08/2024 15:58

Sample Results (Continued)

Client Sample ID: B4-10

Lab ID: L24B004-04 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
HCID by NWTPH-HCID						
Gasoline	ND		27	mg/kg dry	02/02/2024	CA
Diesel	ND		68	mg/kg dry	02/02/2024	CA
Oil	ND		340	mg/kg dry	02/02/2024	CA
Surrogate: 2-FBP	*102%*		*43.6-129*		*02/02/2024*	*CA*
Moisture by ASTM D2216-19						
Moisture	27		0.50	%	02/02/2024	JC

AEG an Atlas Geosciences NW Company
2633 Parkmont Lane SW, Suite A
Olympia, WA 98502

Project: Fox's Carwash
Project Number: 24-105
Project Manager: Scott Rose

City/State: Vancouver, WA
Work Order: L24B004
Reported: 02/08/2024 15:58

Sample Results (Continued)

Client Sample ID: B1-W

Lab ID: L24B004-05 (Water)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
HCID by NWTPH-HCID						
Gasoline	ND		200	ug/L	02/05/2024	KLI
Diesel	ND		500	ug/L	02/05/2024	KLI
Oil	ND		500	ug/L	02/05/2024	KLI
Surrogate: 2-FBP	*43.6%*	*S4*	*56.7-134*		*02/05/2024*	*KLI*

AEG an Atlas Geosciences NW Company
2633 Parkmont Lane SW, Suite A
Olympia, WA 98502

Project: Fox's Carwash
Project Number: 24-105
Project Manager: Scott Rose

City/State: Vancouver, WA
Work Order: L24B004
Reported: 02/08/2024 15:58

Sample Results (Continued)

Client Sample ID: B2-W

Lab ID: L24B004-06 (Water)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
HCID by NWTPH-HCID						
Gasoline	ND		200	ug/L	02/05/2024	KLI
Diesel	ND		500	ug/L	02/05/2024	KLI
Oil	ND		500	ug/L	02/05/2024	KLI
Surrogate: 2-FBP	*82.4%*		*56.7-134*		*02/05/2024*	*KLI*

AEG an Atlas Geosciences NW Company
2633 Parkmont Lane SW, Suite A
Olympia, WA 98502

Project: Fox's Carwash
Project Number: 24-105
Project Manager: Scott Rose

City/State: Vancouver, WA
Work Order: L24B004
Reported: 02/08/2024 15:58

Sample Results (Continued)

Client Sample ID: B3-W

Lab ID: L24B004-07 (Water)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
HCID by NWTPH-HCID						
Gasoline	ND		200	ug/L	02/05/2024	KLI
Diesel	ND		500	ug/L	02/05/2024	KLI
Oil	ND		500	ug/L	02/05/2024	KLI
Surrogate: 2-FBP	*81.9%*		*56.7-134*		*02/05/2024*	*KLI*

AEG an Atlas Geosciences NW Company
2633 Parkmont Lane SW, Suite A
Olympia, WA 98502

Project: Fox's Carwash
Project Number: 24-105
Project Manager: Scott Rose

City/State: Vancouver, WA
Work Order: L24B004
Reported: 02/08/2024 15:58

Sample Results (Continued)

Client Sample ID: B4-W

Lab ID: L24B004-08 (Water)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
HCID by NWTPH-HCID						
Gasoline	ND		200	ug/L	02/06/2024	KLI
Diesel	ND		500	ug/L	02/06/2024	KLI
Oil	ND		500	ug/L	02/06/2024	KLI
Surrogate: 2-FBP	*78.1%*		*56.7-134*		*02/06/2024*	*KLI*

AEG an Atlas Geosciences NW Company
2633 Parkmont Lane SW, Suite A
Olympia, WA 98502

Project: Fox's Carwash
Project Number: 24-105
Project Manager: Scott Rose

City/State: Vancouver, WA
Work Order: L24B004
Reported: 02/08/2024 15:58

Sample Results (Continued)

Client Sample ID: B5-10

Lab ID: L24B004-09 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
HCID by NWTPH-HCID						
Gasoline	ND		28	mg/kg dry	02/02/2024	CA
Diesel	ND		70	mg/kg dry	02/02/2024	CA
Oil	ND		350	mg/kg dry	02/02/2024	CA
Surrogate: 2-FBP	*104%*		*43.6-129*		*02/02/2024*	*CA*
Moisture by ASTM D2216-19						
Moisture	28		0.50	%	02/02/2024	JC

AEG an Atlas Geosciences NW Company
2633 Parkmont Lane SW, Suite A
Olympia, WA 98502

Project: Fox's Carwash
Project Number: 24-105
Project Manager: Scott Rose

City/State: Vancouver, WA
Work Order: L24B004
Reported: 02/08/2024 15:58

Sample Results (Continued)

Client Sample ID: B6-10

Lab ID: L24B004-10 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
HCID by NWTPH-HCID						
Gasoline	ND		27	mg/kg dry	02/02/2024	CA
Diesel	ND		69	mg/kg dry	02/02/2024	CA
Oil	ND		340	mg/kg dry	02/02/2024	CA
Surrogate: 2-FBP	*102%*		*43.6-129*		*02/02/2024*	*CA*
Moisture by ASTM D2216-19						
Moisture	27		0.50	%	02/02/2024	JC

AEG an Atlas Geosciences NW Company
2633 Parkmont Lane SW, Suite A
Olympia, WA 98502

Project: Fox's Carwash
Project Number: 24-105
Project Manager: Scott Rose

City/State: Vancouver, WA
Work Order: L24B004
Reported: 02/08/2024 15:58

Sample Results (Continued)

Client Sample ID: B7-15

Lab ID: L24B004-11 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
HCID by NWTPH-HCID						
Gasoline	ND		28	mg/kg dry	02/02/2024	CA
Diesel	ND		71	mg/kg dry	02/02/2024	CA
Oil	ND		350	mg/kg dry	02/02/2024	CA
Surrogate: 2-FBP	*104%*		*43.6-129*		*02/02/2024*	*CA*
Moisture by ASTM D2216-19						
Moisture	29		0.50	%	02/02/2024	JC

AEG an Atlas Geosciences NW Company
2633 Parkmont Lane SW, Suite A
Olympia, WA 98502

Project: Fox's Carwash
Project Number: 24-105
Project Manager: Scott Rose

City/State: Vancouver, WA
Work Order: L24B004
Reported: 02/08/2024 15:58

Sample Results (Continued)

Client Sample ID: B8-10

Lab ID: L24B004-12 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
HCID by NWTPH-HCID						
Gasoline	ND		28	mg/kg dry	02/02/2024	CA
Diesel	ND		70	mg/kg dry	02/02/2024	CA
Oil	ND		350	mg/kg dry	02/02/2024	CA
Surrogate: 2-FBP	*103%*		*43.6-129*		*02/02/2024*	*CA*
Moisture by ASTM D2216-19						
Moisture	28		0.50	%	02/02/2024	JC

AEG an Atlas Geosciences NW Company
2633 Parkmont Lane SW, Suite A
Olympia, WA 98502

Project: Fox's Carwash
Project Number: 24-105
Project Manager: Scott Rose

City/State: Vancouver, WA
Work Order: L24B004
Reported: 02/08/2024 15:58

Sample Results (Continued)

Client Sample ID: B5-W

Lab ID: L24B004-13 (Water)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Gasoline by Method NWTPH-Gx						
Gasoline	7200	E	200	ug/L	02/06/2024	SC
HCID by NWTPH-HCID						
Gasoline	DET		200	ug/L	02/06/2024	KLI
Diesel	ND		500	ug/L	02/06/2024	KLI
Oil	ND		500	ug/L	02/06/2024	KLI
Surrogate: 2-FBP	*69.9%*		*56.7-134*		*02/06/2024*	*KLI*

AEG an Atlas Geosciences NW Company
2633 Parkmont Lane SW, Suite A
Olympia, WA 98502

Project: Fox's Carwash
Project Number: 24-105
Project Manager: Scott Rose

City/State: Vancouver, WA
Work Order: L24B004
Reported: 02/08/2024 15:58

Sample Results (Continued)

Client Sample ID: B6-W

Lab ID: L24B004-14 (Water)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
HCID by NWTPH-HCID						
Gasoline	ND		200	ug/L	02/06/2024	KLI
Diesel	ND		500	ug/L	02/06/2024	KLI
Oil	ND		500	ug/L	02/06/2024	KLI
Surrogate: 2-FBP	*80.3%*		*56.7-134*		*02/06/2024*	*KLI*

AEG an Atlas Geosciences NW Company
2633 Parkmont Lane SW, Suite A
Olympia, WA 98502

Project: Fox's Carwash
Project Number: 24-105
Project Manager: Scott Rose

City/State: Vancouver, WA
Work Order: L24B004
Reported: 02/08/2024 15:58

Sample Results (Continued)

Client Sample ID: B7-W

Lab ID: L24B004-15 (Water)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
HCID by NWTPH-HCID						
Gasoline	ND		200	ug/L	02/06/2024	KLI
Diesel	ND		500	ug/L	02/06/2024	KLI
Oil	ND		500	ug/L	02/06/2024	KLI
Surrogate: 2-FBP	*63.8%*		*56.7-134*		*02/06/2024*	*KLI*

AEG an Atlas Geosciences NW Company
2633 Parkmont Lane SW, Suite A
Olympia, WA 98502

Project: Fox's Carwash
Project Number: 24-105
Project Manager: Scott Rose

City/State: Vancouver, WA
Work Order: L24B004
Reported: 02/08/2024 15:58

Sample Results (Continued)

Client Sample ID: B8-W

Lab ID: L24B004-16 (Water)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
HCID by NWTPH-HCID						
Gasoline	ND		200	ug/L	02/06/2024	KLI
Diesel	ND		500	ug/L	02/06/2024	KLI
Oil	ND		500	ug/L	02/06/2024	KLI
Surrogate: 2-FBP	*78.0%*		*56.7-134*		*02/06/2024*	*KLI*

AEG an Atlas Geosciences NW Company
2633 Parkmont Lane SW, Suite A
Olympia, WA 98502

Project: Fox's Carwash
Project Number: 24-105
Project Manager: Scott Rose

City/State: Vancouver, WA
Work Order: L24B004
Reported: 02/08/2024 15:58

Quality Control

Volatile Organic Compounds by EPA Method 8260D

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BYB0037 - VOA										
Blank (BYB0037-BLK1)					Prepared & Analyzed: 2/8/2024					
Benzene	ND		0.020	mg/kg wet						
Toluene	ND		0.10	mg/kg wet						
Ethylbenzene	ND		0.050	mg/kg wet						
Total Xylenes	ND		0.15	mg/kg wet						
Surrogate: Dibromofluoromethane			*22.3*	*ug/L*	*20.0*		*112*	*22.9-220*		
Surrogate: 1,2-Dichloroethane-d4			*23.1*	*ug/L*	*20.0*		*115*	*32.2-196*		
Surrogate: Toluene-d8			*20.4*	*ug/L*	*20.0*		*102*	*47.3-146*		
Surrogate: 4-Bromofluorobenzene			*19.7*	*ug/L*	*20.0*		*98.4*	*38.4-136*		
LCS (BYB0037-BS1)					Prepared & Analyzed: 2/8/2024					
Benzene	0.257		0.020	mg/kg wet	0.250		103	56.1-138		
Toluene	0.249		0.10	mg/kg wet	0.250		99.6	54-132		
Ethylbenzene	0.244		0.050	mg/kg wet	0.250		97.6	53.8-127		
Total Xylenes	0.735		0.15	mg/kg wet	0.750		98.0	37.5-127		
Surrogate: Dibromofluoromethane			*22.2*	*ug/L*	*20.0*		*111*	*22.9-220*		
Surrogate: 1,2-Dichloroethane-d4			*20.4*	*ug/L*	*20.0*		*102*	*32.2-196*		
Surrogate: Toluene-d8			*19.3*	*ug/L*	*20.0*		*96.7*	*47.3-146*		
Surrogate: 4-Bromofluorobenzene			*20.3*	*ug/L*	*20.0*		*102*	*38.4-136*		

AEG an Atlas Geosciences NW Company	**Project:** Fox's Carwash	**City/State:** Vancouver, WA
2633 Parkmont Lane SW, Suite A	**Project Number:** 24-105	**Work Order:** L24B004
Olympia, WA 98502	**Project Manager:** Scott Rose	**Reported:** 02/08/2024 15:58

Quality Control
(Continued)

Gasoline by Method NWTPH-Gx

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BYB0037 - VOA										
Blank (BYB0037-BLK1)					Prepared & Analyzed: 2/8/2024					
Gasoline	ND		10	mg/kg wet						
Surrogate: Toluene-d8			*20.4*	*ug/L*	*20.0*		*102*	*47.3-146*		
Batch: BYB0043 - VOA										
Blank (BYB0043-BLK1)					Prepared & Analyzed: 2/6/2024					
Gasoline	ND		200	ug/L						

AEG an Atlas Geosciences NW Company
2633 Parkmont Lane SW, Suite A
Olympia, WA 98502

Project: Fox's Carwash
Project Number: 24-105
Project Manager: Scott Rose

City/State: Vancouver, WA
Work Order: L24B004
Reported: 02/08/2024 15:58

Quality Control
(Continued)

HCID by NWTPH-HCID

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BYB0010 - Extraction										
Blank (BYB0010-BLK1)					Prepared & Analyzed: 2/2/2024					
Gasoline	ND		20	mg/kg wet						
Diesel	ND		50	mg/kg wet						
Oil	ND		250	mg/kg wet						
Surrogate: 2-FBP			*19.6*	*mg/kg*	*20.0*		*97.8*	*43.6-129*		
LCS (BYB0010-BS1)					Prepared & Analyzed: 2/2/2024					
Diesel	DET		50	mg/kg wet	100		82.5	72.6-130		
Surrogate: 2-FBP			*20.6*	*mg/kg*	*20.0*		*103*	*43.6-129*		
Duplicate (BYB0010-DUP1)		**Parent: L24B004-01**			Prepared & Analyzed: 2/2/2024					
Gasoline	ND		27	mg/kg dry		ND				35
Diesel	ND		68	mg/kg dry		ND				35
Oil	ND		340	mg/kg dry		ND				35
Surrogate: 2-FBP			*20.5*	*mg/kg*	*20.0*		*103*	*43.6-129*		
Batch: BYB0015 - Extraction										
Blank (BYB0015-BLK1)					Prepared & Analyzed: 2/5/2024					
Gasoline	ND		200	ug/L						
Diesel	ND		500	ug/L						
Oil	ND		500	ug/L						
Surrogate: 2-FBP			*18.4*	*ug/mL*	*20.0*		*91.9*	*56.7-134*		
LCS (BYB0015-BS1)					Prepared & Analyzed: 2/5/2024					
Diesel	DET		500	ug/L	1000		98.3	50.2-155		
Surrogate: 2-FBP			*19.3*	*ug/mL*	*20.0*		*96.7*	*56.7-134*		
LCS Dup (BYB0015-BSD1)					Prepared & Analyzed: 2/5/2024					
Diesel	DET		500	ug/L	1000		98.3	50.2-155	0.0413	35
Surrogate: 2-FBP			*19.3*	*ug/mL*	*20.0*		*96.6*	*56.7-134*		
Blank (BYB0023-BLK1)					Prepared & Analyzed: 2/6/2024					
Gasoline	ND		200	ug/L						
Diesel	ND		500	ug/L						
Oil	ND		500	ug/L						
Surrogate: 2-FBP			*17.5*	*ug/mL*	*20.0*		*87.3*	*56.7-134*		

AEG an Atlas Geosciences NW Company
2633 Parkmont Lane SW, Suite A
Olympia, WA 98502

Project: Fox's Carwash
Project Number: 24-105
Project Manager: Scott Rose

City/State: Vancouver, WA
Work Order: L24B004
Reported: 02/08/2024 15:58

Quality Control
(Continued)

HCID by NWTPH-HCID (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
LCS (BYB0023-BS1)					Prepared & Analyzed: 2/6/2024					
Diesel	DET		500	ug/L	1000		106	50.2-155		
Surrogate: 2-FBP			*20.3*	*ug/mL*	*20.0*		*102*	*56.7-134*		
LCS Dup (BYB0023-BSD1)					Prepared & Analyzed: 2/6/2024					
Diesel	DET		500	ug/L	1000		101	50.2-155	4.88	35
Surrogate: 2-FBP			*20.7*	*ug/mL*	*20.0*		*103*	*56.7-134*		

AEG an Atlas Geosciences NW Company
2633 Parkmont Lane SW, Suite A
Olympia, WA 98502

Project: Fox's Carwash
Project Number: 24-105
Project Manager: Scott Rose

City/State: Vancouver, WA
Work Order: L24B004
Reported: 02/08/2024 15:58

Quality Control
(Continued)

Diesel by NWTPH-Dx

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BYB0010 - Extraction										
Blank (BYB0010-BLK1)					Prepared & Analyzed: 2/2/2024					
Diesel	ND		50	mg/kg wet						
Surrogate: 2-FBP			*19.6*	*ug/mL*	*20.0*		*97.8*	*43.6-129*		
LCS (BYB0010-BS1)					Prepared & Analyzed: 2/2/2024					
Diesel	82.5		50	mg/kg wet	100		82.5	72.6-130		
Surrogate: 2-FBP			*20.6*	*ug/mL*	*20.0*		*103*	*43.6-129*		
Duplicate (BYB0010-DUP1)		**Parent: L24B004-01**			Prepared & Analyzed: 2/2/2024					
Diesel	ND		68	mg/kg dry		ND				35
Surrogate: 2-FBP			*20.5*	*ug/mL*	*20.0*		*103*	*43.6-129*		

AEG an Atlas Geosciences NW Company	**Project:** Fox's Carwash	**City/State:** Vancouver, WA
2633 Parkmont Lane SW, Suite A	**Project Number:** 24-105	**Work Order:** L24B004
Olympia, WA 98502	**Project Manager:** Scott Rose	**Reported:** 02/08/2024 15:58

Quality Control
(Continued)

Moisture by ASTM D2216-19

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BYB0012 - Gen Chem										
LCS (BYB0012-BS1)					Prepared & Analyzed: 2/2/2024					
Moisture	18			%	17.0		106	90-115		

Libby Environmental, Inc.

3322 South Bay Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@gmail.com

Fox's Carwash Project
AEG an Atlas Geosciences NW Company
Libby Work Order # L24B004
Date Received 2/1/2024
Time Received 2:18 PM

Received By AA

Sample Receipt Checklist

Chain of Custody

1. Is the Chain of Custody is complete?	☑ Yes	☐ No	
2. How was the sample delivered?	☑ Hand Delivered	☐ Picked Up	☐ Shipped

Log In

3. Cooler or Shipping Container is present.	☑ Yes	☐ No	☐ N/A
4. Cooler or Shipping Container is in good condition.	☑ Yes	☐ No	☐ N/A
5. Cooler or Shipping Container has Custody Seals present.	☐ Yes	☑ No	☐ N/A
6. Was an attempt made to cool the samples?	☑ Yes	☐ No	☐ N/A
7. Temperature of cooler (0°C to 8°C recommended)	0.7 °C		
8. Temperature of sample(s) (0°C to 8°C recommended)	7.5 °C		
9. Did all containers arrive in good condition (unbroken)?	☑ Yes	☐ No	
10. Is it clear what analyses were requested?	☑ Yes	☐ No	
11. Did container labels match Chain of Custody?	☑ Yes	☐ No	
12. Are matrices correctly identified on Chain of Custody?	☑ Yes	☐ No	
13. Are correct containers used for the analysis indicated?	☑ Yes	☐ No	
14. Is there sufficient sample volume for indicated analysis?	☑ Yes	☐ No	
15. Were all containers properly preserved per each analysis?	☑ Yes	☐ No	
16. Were VOA vials collected correctly (no headspace)?	☐ Yes	☐ No	☑ N/A
17. Were all holding times able to be met?	☑ Yes	☐ No	

Discrepancies/ Notes

18. Was client notified of all discrepancies?	☐ Yes	☐ No	☑ N/A

Person Notified: _____ Date: _____

By Whom: _____ Via: _____

Regarding: _____

19. Comments. _____

Libby Environmental, Inc.

3322 South Bay Road NE • Olympia, WA 98506-2957

Phone (360) 352-2110 • libbyenv@gmail.com

March 13, 2024

Scott Rose
AEG an Atlas Geosciences NW Company
2633 Parkmont Lane SW, Suite A
Olympia, WA 98502

RE: Fox's Carwash
Work Order Number: L24B087

Enclosed are the results of analyses for samples received by our laboratory on 2/23/2024.

Applicable detection limits and QA/QC data are included. The sample(s) will be disposed of within 30 days unless we are contacted to arrange long term storage.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please feel free to contact us. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Sherry Chilcutt
Senior Chemist

Libby Environmental, Inc.

3322 South Bay Road NE
Olympia, WA 98506
Ph: 360-352-2110
Fax: 360-352-4154

Chain of Custody Record

www.LibbyEnvironmental.c

Page 2 of 44

Date: 2/22/24 Page: 1 of 2

Client: AEG Atlas
Project Manager: Scott Rose
Address:
Project Name: Fox's Carwash
City: State: Zip:
Location: City, State: Vancouver, WA
Phone: Fax:
Collector: Edvard M. Date of Collection: 2/22/24
Client Project # 24-105
Email: srose@aegwa.com

	Sample Number	Depth (ft.)	Time	Sample Type	Container Type	VOC 8260	PCE & Daughter Prod.	NWTPH-Gx	BTEX (8260) / (8021)	NWTPH-HCID	NWTPH-Dx / Dx	PCB 8082	MTCA 5 Metals	RCRA 8 Metals	c PAH 8270	PAH 8270	Semi Vol 8270	EPH / VPH			Field Notes
1	MW1-5	5	10:05	Soil	2x40mL, 2x8oz 2x40mL																
2	MW1-10	10	10:10																		
3	MW1-15	15	10:20																		
4	BD-5	5	11:30																		
5	BD-7	7	11:40		2x40mL 1x8oz			X	X												
6	BD-10	10	11:46		+ 2x40mL 1x8oz			X	X								X				
7	BD-12.5	12.5	11:50					X	X												
8	BD-15	15	12:05		+ 2x40mL 1x8oz			X	X												
9	B10-5	5	12:55		+ 2x40mL 1x8oz																
10	B10-7.5	7.5	13:00																		
11	B10-10	10	13:10		+ 2x40mL 1x40z			X	X												
12	B10-12.5	12.5	13:13																		
13	B10-15	15	13:18		+ 2x40mL 1x40z																
14																					
15																					
16																					
17																					

Relinquished by:	Date / Time	Received by:	Date / Time
[signature]	2/23/24 13:13	[signature]	2-23-24 1313
Relinquished by:	Date / Time	Received by:	Date / Time
Relinquished by:	Date / Time	Received by:	Date / Time

Sample Receipt

Good Condition?	Y	N
Cooler Temp.		°C
Sample Temp.		°C
Total Number of Containers		

Remarks:

TAT: 1-Day 2-Day (5-DAY)

LEGAL ACTION CLAUSE: *In the event of default of payment and/or failure to pay, Client agrees to pay the costs of collection including court costs and reasonable attorney fees to be determined by a court of law.*

Distribution: White - Lab, Yellow - Originator

Libby Environmental, Inc.

3322 South Bay Road NE
Olympia, WA 98506
Ph: 360-352-2110
Fax: 360-352-4154

Chain of Custody Record

www.LibbyEnvironmental.c

Date: 2/22/24 Page: 2 of 2

Client:
Address:
City: State: Zip:
Phone: Fax:
Client Project #

Project Manager:
Project Name: Fox's Growth
Location: City, State:
Collector: Edvard M. Date of Collection: 2/22/24
Email:

	Sample Number	Depth	Time	Sample Type	Container Type	VOC 8260	PCE & Daughter Prod.	NWTPH-Gx	BTEX (8260) / (8021)	NWTPH-HCID	NWTPH-Dx / Dx	PCB 8082	MTCA 5 Metals	RCRA 8 Metals	cPAH 8270	PAH 8270	Semi Vol 8270	VPH / EPH		Field Notes
1	B11-5	5	13:40	Soil	2×10mL, 2×4oz 2×40mL															
2	B11-7.5	7.5	13:45		2×10mL, 1×40z															
3	B11-10	10	13:50		+ 2×40mL 1×40z		X	X												
4	B11-12.5	12.5	14:00		~~2×40mL 1×40z~~															
5	B11-15	15	14:02		+ 2×40mL 1×40z															
6	B12-5	5	14:30		+ 2×40mL 1×40z															
7	B12-7.5	7.5	14:40				X	X												
8	B12-10	10	14:50		+ 2×40mL 1×40z		X	X									X			
9	B12-15	15	15:00		+ 2×40mL 1×40z		X	X												
10	MW1-W	—	15:10	GW	3×40mL		X	X												
11	B9-W	—	12:20																	
12	B10-W	—	13:20																	
13	B11-W	—	14:04																	
14	~~B12-W~~																			
15																				
16																				
17																				

Relinquished by:	Date / Time	Received by:	Date / Time
[signature]	2/23/24 13:13	[signature]	2-23-24 1313
Relinquished by:	Date / Time	Received by:	Date / Time
Relinquished by:	Date / Time	Received by:	Date / Time

Sample Receipt

Good Condition?	Y	N
Cooler Temp.		°C
Sample Temp.		°C
Total Number of Containers		

Remarks:

TAT: 1-Day 2-Day 5-DAY

Distribution: White - Lab, Yellow - Originator

Libby Environmental, Inc.

AEG an Atlas Geosciences NW Company
2633 Parkmont Lane SW, Suite A
Olympia, WA 98502

Project: Fox's Carwash
Project Number: 24-105
Project Manager: Scott Rose

City/State: Vancouver, WA
Work Order: L24B087
Reported: 03/13/2024 15:28

Notes and Definitions

Item	Definition
R	High Relative Percent Difference observed.
S4	Outlying surrogate recovery(ies) observed.
RL	Reporting Limit
ND	Analyte NOT DETECTED at or above the reporting limit
DET	Analyte DETECTED at or above the reporting limit
Qual	Qualifier
	All results reported on an "as received" basis unless indicated by "Dry"
RPD	Relative Percent Difference
%REC	Percent Recovery
Parent	Sample that was matrix spiked or duplicated

Work Order Sample Summary

Lab ID	Sample	Matrix	Date Sampled	Date Received
L24B087-01	MW1-5	Soil	02/22/2024	02/23/2024
L24B087-02	MW1-10	Soil	02/22/2024	02/23/2024
L24B087-03	MW1-15	Soil	02/22/2024	02/23/2024
L24B087-04	B9-5	Soil	02/22/2024	02/23/2024
L24B087-05	B9-7	Soil	02/22/2024	02/23/2024
L24B087-06	B9-10	Soil	02/22/2024	02/23/2024
L24B087-07	B9-12.5	Soil	02/22/2024	02/23/2024
L24B087-08	B9-15	Soil	02/22/2024	02/23/2024
L24B087-09	B10-5	Soil	02/22/2024	02/23/2024
L24B087-10	B10-7.5	Soil	02/22/2024	02/23/2024
L24B087-11	B10-10	Soil	02/22/2024	02/23/2024
L24B087-12	B10-12.5	Soil	02/22/2024	02/23/2024
L24B087-13	B10-15	Soil	02/22/2024	02/23/2024
L24B087-14	B11-5	Soil	02/22/2024	02/23/2024
L24B087-15	B11-7.5	Soil	02/22/2024	02/23/2024
L24B087-16	B11-10	Soil	02/22/2024	02/23/2024
L24B087-17	B11-12.5	Soil	02/22/2024	02/23/2024
L24B087-18	B11-15	Soil	02/22/2024	02/23/2024
L24B087-19	B12-5	Soil	02/22/2024	02/23/2024
L24B087-20	B12-7.5	Soil	02/22/2024	02/23/2024
L24B087-21	B12-10	Soil	02/22/2024	02/23/2024
L24B087-22	B12-15	Soil	02/22/2024	02/23/2024
L24B087-23	MW1-W	Water	02/22/2024	02/23/2024
L24B087-24	B9-W	Water	02/22/2024	02/23/2024
L24B087-25	B10-W	Water	02/22/2024	02/23/2024
L24B087-26	B11-W	Water	02/22/2024	02/23/2024

Libby Environmental, Inc.

AEG an Atlas Geosciences NW Company
2633 Parkmont Lane SW, Suite A
Olympia, WA 98502

Project: Fox's Carwash
Project Number: 24-105
Project Manager: Scott Rose

City/State: Vancouver, WA
Work Order: L24B087
Reported: 03/13/2024 15:28

Libby Environmental Sample Detection Summary

Analyte	Result	Qual	Units	RL	Method
Sample: **B9-10**			Lab#: L24B087-06		
Gasoline	320		mg/kg dry	95	NWTPH-Gx
Ethylbenzene	0.090		mg/kg dry	0.048	8260D
Sample: **MW1-W**			Lab#: L24B087-23		
Gasoline	480		ug/L	100	NWTPH-Gx
Benzene	12		ug/L	1.0	8260D
Total Xylenes	250		ug/L	2.0	8260D
Sample: **B9-W**			Lab#: L24B087-24		
Gasoline	400		ug/L	100	NWTPH-Gx
Ethylbenzene	1.1		ug/L	1.0	8260D
Total Xylenes	3.0		ug/L	2.0	8260D

Note: If no entry is made, then no target compounds were detected.

AEG an Atlas Geosciences NW Company
2633 Parkmont Lane SW, Suite A
Olympia, WA 98502

Project: Fox's Carwash
Project Number: 24-105
Project Manager: Scott Rose

City/State: Vancouver, WA
Work Order: L24B087
Reported: 03/13/2024 15:28

Sample Results

Client Sample ID: B9-7

Lab ID: L24B087-05 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D						
Benzene	ND		0.016	mg/kg dry	02/28/2024	AA
Toluene	ND		0.082	mg/kg dry	02/28/2024	AA
Ethylbenzene	ND		0.041	mg/kg dry	02/28/2024	AA
Total Xylenes	ND		0.12	mg/kg dry	02/28/2024	AA
Surrogate: Dibromofluoromethane	*98.9%*		*22.9-220*		*02/28/2024*	*AA*
Surrogate: 1,2-Dichloroethane-d4	*85.4%*		*32.2-196*		*02/28/2024*	*AA*
Surrogate: Toluene-d8	*92.8%*		*47.3-146*		*02/28/2024*	*AA*
Surrogate: 4-Bromofluorobenzene	*81.4%*		*38.4-136*		*02/28/2024*	*AA*
Gasoline by Method NWTPH-Gx						
Gasoline	ND		8.2	mg/kg dry	02/28/2024	AA
Surrogate: Toluene-d8	*92.8%*		*47.3-146*		*02/28/2024*	*AA*
Moisture by ASTM D2216-19						
Moisture	19		0.50	%	02/28/2024	AA

AEG an Atlas Geosciences NW Company
2633 Parkmont Lane SW, Suite A
Olympia, WA 98502

Project: Fox's Carwash
Project Number: 24-105
Project Manager: Scott Rose

City/State: Vancouver, WA
Work Order: L24B087
Reported: 03/13/2024 15:28

Sample Results (Continued)

Client Sample ID: B9-10

Lab ID: L24B087-06 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D						
Benzene	ND		0.019	mg/kg dry	02/29/2024	AA
Toluene	ND		0.095	mg/kg dry	02/29/2024	AA
Ethylbenzene	0.090		0.048	mg/kg dry	02/29/2024	AA
Total Xylenes	ND		0.14	mg/kg dry	02/29/2024	AA
Surrogate: Dibromofluoromethane	*78.2%*		*22.9-220*		*02/29/2024*	*AA*
Surrogate: 1,2-Dichloroethane-d4	*85.1%*		*32.2-196*		*02/29/2024*	*AA*
Surrogate: Toluene-d8	*105%*		*47.3-146*		*02/29/2024*	*AA*
Surrogate: 4-Bromofluorobenzene	*114%*		*38.4-136*		*02/29/2024*	*AA*
Gasoline by Method NWTPH-Gx						
Gasoline	320		95	mg/kg dry	02/29/2024	AA
Surrogate: Toluene-d8	*108%*		*47.3-146*		*02/29/2024*	*AA*
Moisture by ASTM D2216-19						
Moisture	26		0.50	%	02/28/2024	AA

AEG an Atlas Geosciences NW Company
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Olympia, WA 98502

Project: Fox's Carwash
Project Number: 24-105
Project Manager: Scott Rose

City/State: Vancouver, WA
Work Order: L24B087
Reported: 03/13/2024 15:28

Sample Results (Continued)

Client Sample ID: B9-12.5

Lab ID: L24B087-07 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D						
Benzene	ND		0.021	mg/kg dry	02/28/2024	AA
Toluene	ND		0.11	mg/kg dry	02/28/2024	AA
Ethylbenzene	ND		0.054	mg/kg dry	02/28/2024	AA
Total Xylenes	ND		0.16	mg/kg dry	02/28/2024	AA
Surrogate: Dibromofluoromethane	*93.2%*		*22.9-220*		*02/28/2024*	*AA*
Surrogate: 1,2-Dichloroethane-d4	*91.6%*		*32.2-196*		*02/28/2024*	*AA*
Surrogate: Toluene-d8	*88.8%*		*47.3-146*		*02/28/2024*	*AA*
Surrogate: 4-Bromofluorobenzene	*91.4%*		*38.4-136*		*02/28/2024*	*AA*
Gasoline by Method NWTPH-Gx						
Gasoline	ND		11	mg/kg dry	02/28/2024	AA
Surrogate: Toluene-d8	*88.8%*		*47.3-146*		*02/28/2024*	*AA*
Moisture by ASTM D2216-19						
Moisture	30		0.50	%	02/28/2024	AA

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Project: Fox's Carwash
Project Number: 24-105
Project Manager: Scott Rose

City/State: Vancouver, WA
Work Order: L24B087
Reported: 03/13/2024 15:28

Sample Results (Continued)

Client Sample ID: B9-15

Lab ID: L24B087-08 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D						
Benzene	ND		0.020	mg/kg dry	02/28/2024	AA
Toluene	ND		0.099	mg/kg dry	02/28/2024	AA
Ethylbenzene	ND		0.050	mg/kg dry	02/28/2024	AA
Total Xylenes	ND		0.15	mg/kg dry	02/28/2024	AA
Surrogate: Dibromofluoromethane	*99.8%*		*22.9-220*		*02/28/2024*	*AA*
Surrogate: 1,2-Dichloroethane-d4	*93.4%*		*32.2-196*		*02/28/2024*	*AA*
Surrogate: Toluene-d8	*90.6%*		*47.3-146*		*02/28/2024*	*AA*
Surrogate: 4-Bromofluorobenzene	*80.7%*		*38.4-136*		*02/28/2024*	*AA*
Gasoline by Method NWTPH-Gx						
Gasoline	ND		9.9	mg/kg dry	02/28/2024	AA
Surrogate: Toluene-d8	*90.6%*		*47.3-146*		*02/28/2024*	*AA*
Moisture by ASTM D2216-19						
Moisture	29		0.50	%	02/28/2024	AA

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Olympia, WA 98502

Project: Fox's Carwash
Project Number: 24-105
Project Manager: Scott Rose

City/State: Vancouver, WA
Work Order: L24B087
Reported: 03/13/2024 15:28

Sample Results (Continued)

Client Sample ID: B10-10

Lab ID: L24B087-11 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D						
Benzene	ND		0.019	mg/kg dry	02/28/2024	AA
Toluene	ND		0.095	mg/kg dry	02/28/2024	AA
Ethylbenzene	ND		0.047	mg/kg dry	02/28/2024	AA
Total Xylenes	ND		0.14	mg/kg dry	02/28/2024	AA
Surrogate: Dibromofluoromethane	*101%*		*22.9-220*		*02/28/2024*	*AA*
Surrogate: 1,2-Dichloroethane-d4	*88.0%*		*32.2-196*		*02/28/2024*	*AA*
Surrogate: Toluene-d8	*92.8%*		*47.3-146*		*02/28/2024*	*AA*
Surrogate: 4-Bromofluorobenzene	*81.6%*		*38.4-136*		*02/28/2024*	*AA*
Gasoline by Method NWTPH-Gx						
Gasoline	ND		9.5	mg/kg dry	02/28/2024	AA
Surrogate: Toluene-d8	*92.8%*		*47.3-146*		*02/28/2024*	*AA*
Moisture by ASTM D2216-19						
Moisture	26		0.50	%	02/28/2024	AA

AEG an Atlas Geosciences NW Company
2633 Parkmont Lane SW, Suite A
Olympia, WA 98502

Project: Fox's Carwash
Project Number: 24-105
Project Manager: Scott Rose

City/State: Vancouver, WA
Work Order: L24B087
Reported: 03/13/2024 15:28

Sample Results (Continued)

Client Sample ID: B11-10

Lab ID: L24B087-16 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D						
Benzene	ND		0.019	mg/kg dry	02/28/2024	AA
Toluene	ND		0.093	mg/kg dry	02/28/2024	AA
Ethylbenzene	ND		0.046	mg/kg dry	02/28/2024	AA
Total Xylenes	ND		0.14	mg/kg dry	02/28/2024	AA
Surrogate: Dibromofluoromethane	*93.0%*		*22.9-220*		*02/28/2024*	*AA*
Surrogate: 1,2-Dichloroethane-d4	*76.2%*		*32.2-196*		*02/28/2024*	*AA*
Surrogate: Toluene-d8	*90.6%*		*47.3-146*		*02/28/2024*	*AA*
Surrogate: 4-Bromofluorobenzene	*79.2%*		*38.4-136*		*02/28/2024*	*AA*
Gasoline by Method NWTPH-Gx						
Gasoline	ND		9.3	mg/kg dry	02/28/2024	AA
Surrogate: Toluene-d8	*90.6%*		*47.3-146*		*02/28/2024*	*AA*
Moisture by ASTM D2216-19						
Moisture	26		0.50	%	02/28/2024	AA

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Project: Fox's Carwash
Project Number: 24-105
Project Manager: Scott Rose

City/State: Vancouver, WA
Work Order: L24B087
Reported: 03/13/2024 15:28

Sample Results (Continued)

Client Sample ID: B12-7.5

Lab ID: L24B087-20 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D						
Benzene	ND		0.019	mg/kg dry	02/28/2024	AA
Toluene	ND		0.095	mg/kg dry	02/28/2024	AA
Ethylbenzene	ND		0.047	mg/kg dry	02/28/2024	AA
Total Xylenes	ND		0.14	mg/kg dry	02/28/2024	AA
Surrogate: Dibromofluoromethane	*95.8%*		*22.9-220*		*02/28/2024*	*AA*
Surrogate: 1,2-Dichloroethane-d4	*91.8%*		*32.2-196*		*02/28/2024*	*AA*
Surrogate: Toluene-d8	*89.4%*		*47.3-146*		*02/28/2024*	*AA*
Surrogate: 4-Bromofluorobenzene	*82.7%*		*38.4-136*		*02/28/2024*	*AA*
Gasoline by Method NWTPH-Gx						
Gasoline	ND		9.5	mg/kg dry	02/28/2024	AA
Surrogate: Toluene-d8	*89.4%*		*47.3-146*		*02/28/2024*	*AA*
Moisture by ASTM D2216-19						
Moisture	27		0.50	%	02/28/2024	AA

AEG an Atlas Geosciences NW Company
2633 Parkmont Lane SW, Suite A
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Project: Fox's Carwash
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City/State: Vancouver, WA
Work Order: L24B087
Reported: 03/13/2024 15:28

Sample Results (Continued)

Client Sample ID: B12-10

Lab ID: L24B087-21 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D						
Benzene	ND		0.019	mg/kg dry	02/28/2024	AA
Toluene	ND		0.096	mg/kg dry	02/28/2024	AA
Ethylbenzene	ND		0.048	mg/kg dry	02/28/2024	AA
Total Xylenes	ND		0.14	mg/kg dry	02/28/2024	AA
Surrogate: Dibromofluoromethane	*104%*		*22.9-220*		*02/28/2024*	*AA*
Surrogate: 1,2-Dichloroethane-d4	*102%*		*32.2-196*		*02/28/2024*	*AA*
Surrogate: Toluene-d8	*86.8%*		*47.3-146*		*02/28/2024*	*AA*
Surrogate: 4-Bromofluorobenzene	*84.8%*		*38.4-136*		*02/28/2024*	*AA*
Gasoline by Method NWTPH-Gx						
Gasoline	ND		9.6	mg/kg dry	02/28/2024	AA
Surrogate: Toluene-d8	*86.8%*		*47.3-146*		*02/28/2024*	*AA*
Moisture by ASTM D2216-19						
Moisture	28		0.50	%	02/28/2024	AA

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City/State: Vancouver, WA
Work Order: L24B087
Reported: 03/13/2024 15:28

Sample Results (Continued)

Client Sample ID: B12-15

Lab ID: L24B087-22 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D						
Benzene	ND		0.013	mg/kg dry	02/28/2024	AA
Toluene	ND		0.066	mg/kg dry	02/28/2024	AA
Ethylbenzene	ND		0.033	mg/kg dry	02/28/2024	AA
Total Xylenes	ND		0.098	mg/kg dry	02/28/2024	AA
Surrogate: Dibromofluoromethane	*99.4%*		*22.9-220*		*02/28/2024*	*AA*
Surrogate: 1,2-Dichloroethane-d4	*95.4%*		*32.2-196*		*02/28/2024*	*AA*
Surrogate: Toluene-d8	*103%*		*47.3-146*		*02/28/2024*	*AA*
Surrogate: 4-Bromofluorobenzene	*87.9%*		*38.4-136*		*02/28/2024*	*AA*
Gasoline by Method NWTPH-Gx						
Gasoline	ND		6.6	mg/kg dry	02/28/2024	AA
Surrogate: Toluene-d8	*103%*		*47.3-146*		*02/28/2024*	*AA*
Moisture by ASTM D2216-19						
Moisture	14		0.50	%	02/28/2024	AA

AEG an Atlas Geosciences NW Company
2633 Parkmont Lane SW, Suite A
Olympia, WA 98502

Project: Fox's Carwash
Project Number: 24-105
Project Manager: Scott Rose

City/State: Vancouver, WA
Work Order: L24B087
Reported: 03/13/2024 15:28

Sample Results (Continued)

Client Sample ID: MW1-W

Lab ID: L24B087-23 (Water)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D						
Benzene	12		1.0	ug/L	02/28/2024	AA
Toluene	ND		2.0	ug/L	02/28/2024	AA
Ethylbenzene	ND		1.0	ug/L	02/28/2024	AA
Total Xylenes	250		2.0	ug/L	02/28/2024	AA
Surrogate: Dibromofluoromethane	*101%*		*22.9-220*		*02/28/2024*	*AA*
Surrogate: 1,2-Dichloroethane-d4	*94.8%*		*32.2-196*		*02/28/2024*	*AA*
Surrogate: Toluene-d8	*64.2%*		*47.3-146*		*02/28/2024*	*AA*
Surrogate: 4-Bromofluorobenzene	*160%*	*S4*	*38.4-136*		*02/28/2024*	*AA*
Gasoline by Method NWTPH-Gx						
Gasoline	480		100	ug/L	02/28/2024	AA
Surrogate: Toluene-d8	*64.2%*		*47.3-146*		*02/28/2024*	*AA*

AEG an Atlas Geosciences NW Company
2633 Parkmont Lane SW, Suite A
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Project: Fox's Carwash
Project Number: 24-105
Project Manager: Scott Rose

City/State: Vancouver, WA
Work Order: L24B087
Reported: 03/13/2024 15:28

Sample Results (Continued)

Client Sample ID: B9-W

Lab ID: L24B087-24 (Water)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D						
Benzene	ND		1.0	ug/L	02/28/2024	AA
Toluene	ND		2.0	ug/L	02/28/2024	AA
Ethylbenzene	1.1		1.0	ug/L	02/28/2024	AA
Total Xylenes	3.0		2.0	ug/L	02/28/2024	AA
Surrogate: Dibromofluoromethane	*94.5%*		*22.9-220*		*02/28/2024*	*AA*
Surrogate: 1,2-Dichloroethane-d4	*95.9%*		*32.2-196*		*02/28/2024*	*AA*
Surrogate: Toluene-d8	*97.5%*		*47.3-146*		*02/28/2024*	*AA*
Surrogate: 4-Bromofluorobenzene	*89.4%*		*38.4-136*		*02/28/2024*	*AA*
Gasoline by Method NWTPH-Gx						
Gasoline	400		100	ug/L	02/28/2024	AA
Surrogate: Toluene-d8	*97.5%*		*47.3-146*		*02/28/2024*	*AA*

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Project Number: 24-105
Project Manager: Scott Rose

City/State: Vancouver, WA
Work Order: L24B087
Reported: 03/13/2024 15:28

Sample Results (Continued)

Client Sample ID: B10-W

Lab ID: L24B087-25 (Water)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D						
Benzene	ND		1.0	ug/L	02/28/2024	AA
Toluene	ND		2.0	ug/L	02/28/2024	AA
Ethylbenzene	ND		1.0	ug/L	02/28/2024	AA
Total Xylenes	ND		2.0	ug/L	02/28/2024	AA
Surrogate: Dibromofluoromethane	*104%*		*22.9-220*		*02/28/2024*	*AA*
Surrogate: 1,2-Dichloroethane-d4	*104%*		*32.2-196*		*02/28/2024*	*AA*
Surrogate: Toluene-d8	*91.1%*		*47.3-146*		*02/28/2024*	*AA*
Surrogate: 4-Bromofluorobenzene	*79.4%*		*38.4-136*		*02/28/2024*	*AA*
Gasoline by Method NWTPH-Gx						
Gasoline	ND		100	ug/L	02/28/2024	AA
Surrogate: Toluene-d8	*91.1%*		*47.3-146*		*02/28/2024*	*AA*

AEG an Atlas Geosciences NW Company
2633 Parkmont Lane SW, Suite A
Olympia, WA 98502

Project: Fox's Carwash
Project Number: 24-105
Project Manager: Scott Rose

City/State: Vancouver, WA
Work Order: L24B087
Reported: 03/13/2024 15:28

Sample Results (Continued)

Client Sample ID: B11-W

Lab ID: L24B087-26 (Water)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D						
Benzene	ND		1.0	ug/L	02/28/2024	AA
Toluene	ND		2.0	ug/L	02/28/2024	AA
Ethylbenzene	ND		1.0	ug/L	02/28/2024	AA
Total Xylenes	ND		2.0	ug/L	02/28/2024	AA
Surrogate: Dibromofluoromethane	*110%*		*22.9-220*		*02/28/2024*	*AA*
Surrogate: 1,2-Dichloroethane-d4	*108%*		*32.2-196*		*02/28/2024*	*AA*
Surrogate: Toluene-d8	*90.9%*		*47.3-146*		*02/28/2024*	*AA*
Surrogate: 4-Bromofluorobenzene	*80.0%*		*38.4-136*		*02/28/2024*	*AA*
Gasoline by Method NWTPH-Gx						
Gasoline	ND		100	ug/L	02/28/2024	AA
Surrogate: Toluene-d8	*90.9%*		*47.3-146*		*02/28/2024*	*AA*

AEG an Atlas Geosciences NW Company
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Reported: 03/13/2024 15:28

Quality Control

Volatile Organic Compounds by EPA Method 8260D

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BYB0156 - VOA										
Blank (BYB0156-BLK1)					Prepared: 2/23/2024 Analyzed: 2/28/2024					
Benzene	ND		0.020	mg/kg wet						
Toluene	ND		0.10	mg/kg wet						
Ethylbenzene	ND		0.050	mg/kg wet						
Total Xylenes	ND		0.15	mg/kg wet						
Surrogate: Dibromofluoromethane			*19.8*	*ug/L*	*20.0*		*99.0*	*22.9-220*		
Surrogate: 1,2-Dichloroethane-d4			*17.0*	*ug/L*	*20.0*		*85.0*	*32.2-196*		
Surrogate: Toluene-d8			*19.9*	*ug/L*	*20.0*		*99.6*	*47.3-146*		
Surrogate: 4-Bromofluorobenzene			*16.1*	*ug/L*	*20.0*		*80.5*	*38.4-136*		
LCS (BYB0156-BS1)					Prepared: 2/23/2024 Analyzed: 2/28/2024					
Benzene	0.290		0.020	mg/kg wet	0.250		116	56.1-138		
Toluene	0.267		0.10	mg/kg wet	0.250		107	54-132		
Ethylbenzene	0.265		0.050	mg/kg wet	0.250		106	53.8-127		
Total Xylenes	0.727		0.15	mg/kg wet	0.750		96.9	37.5-127		
Surrogate: Dibromofluoromethane			*18.6*	*ug/L*	*20.0*		*92.8*	*22.9-220*		
Surrogate: 1,2-Dichloroethane-d4			*17.2*	*ug/L*	*20.0*		*86.1*	*32.2-196*		
Surrogate: Toluene-d8			*19.0*	*ug/L*	*20.0*		*95.0*	*47.3-146*		
Surrogate: 4-Bromofluorobenzene			*20.8*	*ug/L*	*20.0*		*104*	*38.4-136*		
Duplicate (BYB0156-DUP1)		**Parent: L24B087-05**			Prepared: 2/23/2024 Analyzed: 2/28/2024					
Benzene	ND		0.017	mg/kg dry		ND				35
Toluene	ND		0.085	mg/kg dry		ND				35
Ethylbenzene	ND		0.043	mg/kg dry		ND				35
Total Xylenes	ND		0.13	mg/kg dry		ND				35
Surrogate: Dibromofluoromethane			*21.5*	*ug/L*	*20.0*		*108*	*22.9-220*		
Surrogate: 1,2-Dichloroethane-d4			*22.1*	*ug/L*	*20.0*		*110*	*32.2-196*		
Surrogate: Toluene-d8			*18.0*	*ug/L*	*20.0*		*90.2*	*47.3-146*		
Surrogate: 4-Bromofluorobenzene			*16.6*	*ug/L*	*20.0*		*83.0*	*38.4-136*		
Matrix Spike (BYB0156-MS1)		**Parent: L24B087-05**			Prepared: 2/23/2024 Analyzed: 2/28/2024					
Benzene	0.167		0.016	mg/kg dry	0.205	ND	81.2	45.8-150		
Toluene	0.160		0.082	mg/kg dry	0.205	ND	77.8	19.5-171		
Ethylbenzene	0.143		0.041	mg/kg dry	0.205	ND	69.8	11.2-170		
Total Xylenes	0.399		0.12	mg/kg dry	0.616	ND	64.8	10-163		
Surrogate: Dibromofluoromethane			*19.5*	*ug/L*	*20.0*		*97.4*	*22.9-220*		
Surrogate: 1,2-Dichloroethane-d4			*18.0*	*ug/L*	*20.0*		*89.8*	*32.2-196*		
Surrogate: Toluene-d8			*19.3*	*ug/L*	*20.0*		*96.5*	*47.3-146*		
Surrogate: 4-Bromofluorobenzene			*21.5*	*ug/L*	*20.0*		*107*	*38.4-136*		

AEG an Atlas Geosciences NW Company
2633 Parkmont Lane SW, Suite A
Olympia, WA 98502

Project: Fox's Carwash
Project Number: 24-105
Project Manager: Scott Rose

City/State: Vancouver, WA
Work Order: L24B087
Reported: 03/13/2024 15:28

Quality Control
(Continued)

Volatile Organic Compounds by EPA Method 8260D (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Matrix Spike Dup (BYB0156-MSD1)		**Parent: L24B087-05**			Prepared: 2/23/2024 Analyzed: 2/28/2024					
Benzene	0.244	R	0.016	mg/kg dry	0.205	ND	119	45.8-150	37.7	35
Toluene	0.222		0.082	mg/kg dry	0.205	ND	108	19.5-171	32.5	35
Ethylbenzene	0.221	R	0.041	mg/kg dry	0.205	ND	108	11.2-170	42.7	35
Total Xylenes	0.618	R	0.12	mg/kg dry	0.616	ND	100	10-163	42.9	35
Surrogate: Dibromofluoromethane			*19.6*	*ug/L*	*20.0*		*97.8*	*22.9-220*		
Surrogate: 1,2-Dichloroethane-d4			*20.2*	*ug/L*	*20.0*		*101*	*32.2-196*		
Surrogate: Toluene-d8			*19.0*	*ug/L*	*20.0*		*95.0*	*47.3-146*		
Surrogate: 4-Bromofluorobenzene			*22.0*	*ug/L*	*20.0*		*110*	*38.4-136*		
Blank (BYB0171-BLK1)					Prepared & Analyzed: 2/29/2024					
Benzene	ND		0.020	mg/kg wet						
Toluene	ND		0.10	mg/kg wet						
Ethylbenzene	ND		0.050	mg/kg wet						
Total Xylenes	ND		0.15	mg/kg wet						
Surrogate: Dibromofluoromethane			*21.3*	*ug/L*	*20.0*		*106*	*22.9-220*		
Surrogate: 1,2-Dichloroethane-d4			*19.8*	*ug/L*	*20.0*		*99.0*	*32.2-196*		
Surrogate: Toluene-d8			*19.2*	*ug/L*	*20.0*		*96.0*	*47.3-146*		
Surrogate: 4-Bromofluorobenzene			*15.9*	*ug/L*	*20.0*		*79.4*	*38.4-136*		
LCS (BYB0171-BS1)					Prepared & Analyzed: 2/29/2024					
Benzene	0.271		0.020	mg/kg wet	0.250		108	56.1-138		
Toluene	0.251		0.10	mg/kg wet	0.250		101	54-132		
Ethylbenzene	0.235		0.050	mg/kg wet	0.250		94.1	53.8-127		
Total Xylenes	0.668		0.15	mg/kg wet	0.750		89.1	37.5-127		
Surrogate: Dibromofluoromethane			*20.6*	*ug/L*	*20.0*		*103*	*22.9-220*		
Surrogate: 1,2-Dichloroethane-d4			*20.4*	*ug/L*	*20.0*		*102*	*32.2-196*		
Surrogate: Toluene-d8			*19.0*	*ug/L*	*20.0*		*95.2*	*47.3-146*		
Surrogate: 4-Bromofluorobenzene			*22.7*	*ug/L*	*20.0*		*114*	*38.4-136*		
Duplicate (BYB0171-DUP1)		**Parent: L24B094-01**			Prepared & Analyzed: 2/29/2024					
Benzene	ND		0.016	mg/kg dry		ND				35
Toluene	ND		0.082	mg/kg dry		ND				35
Ethylbenzene	ND		0.041	mg/kg dry		ND				35
Total Xylenes	ND		0.12	mg/kg dry		ND				35
Surrogate: Dibromofluoromethane			*18.9*	*ug/L*	*20.0*		*94.4*	*22.9-220*		
Surrogate: 1,2-Dichloroethane-d4			*18.9*	*ug/L*	*20.0*		*94.4*	*32.2-196*		
Surrogate: Toluene-d8			*17.0*	*ug/L*	*20.0*		*85.2*	*47.3-146*		
Surrogate: 4-Bromofluorobenzene			*16.4*	*ug/L*	*20.0*		*82.2*	*38.4-136*		

AEG an Atlas Geosciences NW Company
2633 Parkmont Lane SW, Suite A
Olympia, WA 98502

Project: Fox's Carwash
Project Number: 24-105
Project Manager: Scott Rose

City/State: Vancouver, WA
Work Order: L24B087
Reported: 03/13/2024 15:28

Quality Control
(Continued)

Volatile Organic Compounds by EPA Method 8260D (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Matrix Spike (BYB0171-MS1)		**Parent: L24B094-01**			Prepared & Analyzed: 2/29/2024					
Benzene	0.180		0.013	mg/kg dry	0.167	ND	108	45.8-150		
Toluene	0.168		0.067	mg/kg dry	0.167	ND	101	19.5-171		
Ethylbenzene	0.162		0.033	mg/kg dry	0.167	ND	96.9	11.2-170		
Total Xylenes	0.453		0.10	mg/kg dry	0.500	ND	90.5	10-163		
Surrogate: Dibromofluoromethane			*19.3*	*ug/L*	*20.0*		*96.4*	*22.9-220*		
Surrogate: 1,2-Dichloroethane-d4			*18.5*	*ug/L*	*20.0*		*92.4*	*32.2-196*		
Surrogate: Toluene-d8			*19.0*	*ug/L*	*20.0*		*95.0*	*47.3-146*		
Surrogate: 4-Bromofluorobenzene			*22.8*	*ug/L*	*20.0*		*114*	*38.4-136*		
Matrix Spike Dup (BYB0171-MSD1)		**Parent: L24B094-01**			Prepared & Analyzed: 2/29/2024					
Benzene	0.183		0.013	mg/kg dry	0.167	ND	110	45.8-150	1.89	35
Toluene	0.162		0.067	mg/kg dry	0.167	ND	97.3	19.5-171	3.63	35
Ethylbenzene	0.155		0.033	mg/kg dry	0.167	ND	93.2	11.2-170	3.93	35
Total Xylenes	0.433		0.10	mg/kg dry	0.500	ND	86.6	10-163	4.45	35
Surrogate: Dibromofluoromethane			*19.7*	*ug/L*	*20.0*		*98.6*	*22.9-220*		
Surrogate: 1,2-Dichloroethane-d4			*21.3*	*ug/L*	*20.0*		*106*	*32.2-196*		
Surrogate: Toluene-d8			*18.1*	*ug/L*	*20.0*		*90.6*	*47.3-146*		
Surrogate: 4-Bromofluorobenzene			*22.3*	*ug/L*	*20.0*		*111*	*38.4-136*		
Batch: BYB0162 - VOA										
Blank (BYB0162-BLK1)					Prepared & Analyzed: 2/28/2024					
Benzene	ND		1.0	ug/L						
Toluene	ND		2.0	ug/L						
Ethylbenzene	ND		1.0	ug/L						
Total Xylenes	ND		2.0	ug/L						
Surrogate: Dibromofluoromethane			*19.8*	*ug/L*	*20.0*		*99.0*	*22.9-220*		
Surrogate: 1,2-Dichloroethane-d4			*17.0*	*ug/L*	*20.0*		*85.0*	*32.2-196*		
Surrogate: Toluene-d8			*19.9*	*ug/L*	*20.0*		*99.6*	*47.3-146*		
Surrogate: 4-Bromofluorobenzene			*16.1*	*ug/L*	*20.0*		*80.5*	*38.4-136*		
LCS (BYB0162-BS1)					Prepared & Analyzed: 2/28/2024					
Benzene	5.80		1.0	ug/L	5.00		116	56.1-138		
Toluene	5.34		2.0	ug/L	5.00		107	54-132		
Ethylbenzene	5.30		1.0	ug/L	5.00		106	53.8-127		
Total Xylenes	14.5		2.0	ug/L	15.0		96.9	37.5-127		
Surrogate: Dibromofluoromethane			*18.6*	*ug/L*	*20.0*		*92.8*	*22.9-220*		
Surrogate: 1,2-Dichloroethane-d4			*17.2*	*ug/L*	*20.0*		*86.1*	*32.2-196*		
Surrogate: Toluene-d8			*19.0*	*ug/L*	*20.0*		*95.0*	*47.3-146*		
Surrogate: 4-Bromofluorobenzene			*20.8*	*ug/L*	*20.0*		*104*	*38.4-136*		

AEG an Atlas Geosciences NW Company
2633 Parkmont Lane SW, Suite A
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Project: Fox's Carwash
Project Number: 24-105
Project Manager: Scott Rose

City/State: Vancouver, WA
Work Order: L24B087
Reported: 03/13/2024 15:28

Quality Control
(Continued)

Volatile Organic Compounds by EPA Method 8260D (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Duplicate (BYB0162-DUP1)		**Parent: L24B084-01**			Prepared & Analyzed: 2/28/2024					
Benzene	1.72		1.0	ug/L		ND				35
Toluene	ND		2.0	ug/L		ND				35
Ethylbenzene	ND		1.0	ug/L		ND				35
Total Xylenes	ND		2.0	ug/L		ND				35
Surrogate: Dibromofluoromethane			*20.7*	*ug/L*	*20.0*		*103*	*22.9-220*		
Surrogate: 1,2-Dichloroethane-d4			*21.1*	*ug/L*	*20.0*		*105*	*32.2-196*		
Surrogate: Toluene-d8			*18.6*	*ug/L*	*20.0*		*93.2*	*47.3-146*		
Surrogate: 4-Bromofluorobenzene			*17.9*	*ug/L*	*20.0*		*89.6*	*38.4-136*		
Matrix Spike (BYB0162-MS1)		**Parent: L24B084-01**			Prepared & Analyzed: 2/28/2024					
Benzene	5.72		1.0	ug/L	5.00	ND	114	10-188		
Toluene	5.74		2.0	ug/L	5.00	ND	115	10-251		
Ethylbenzene	5.20		1.0	ug/L	5.00	ND	104	10-267		
Total Xylenes	15.0		2.0	ug/L	15.0	ND	99.7	10-184		
Surrogate: Dibromofluoromethane			*20.8*	*ug/L*	*20.0*		*104*	*22.9-220*		
Surrogate: 1,2-Dichloroethane-d4			*23.3*	*ug/L*	*20.0*		*116*	*32.2-196*		
Surrogate: Toluene-d8			*19.4*	*ug/L*	*20.0*		*97.1*	*47.3-146*		
Surrogate: 4-Bromofluorobenzene			*24.0*	*ug/L*	*20.0*		*120*	*38.4-136*		
Matrix Spike Dup (BYB0162-MSD1)		**Parent: L24B084-01**			Prepared & Analyzed: 2/28/2024					
Benzene	6.45		1.0	ug/L	5.00	ND	129	10-188	12.0	35
Toluene	5.96		2.0	ug/L	5.00	ND	119	10-251	3.79	35
Ethylbenzene	5.55		1.0	ug/L	5.00	ND	111	10-267	6.58	35
Total Xylenes	16.1		2.0	ug/L	15.0	ND	107	10-184	7.34	35
Surrogate: Dibromofluoromethane			*22.3*	*ug/L*	*20.0*		*112*	*22.9-220*		
Surrogate: 1,2-Dichloroethane-d4			*24.0*	*ug/L*	*20.0*		*120*	*32.2-196*		
Surrogate: Toluene-d8			*18.6*	*ug/L*	*20.0*		*93.0*	*47.3-146*		
Surrogate: 4-Bromofluorobenzene			*22.7*	*ug/L*	*20.0*		*114*	*38.4-136*		

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Project: Fox's Carwash
Project Number: 24-105
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City/State: Vancouver, WA
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Reported: 03/13/2024 15:28

Quality Control
(Continued)

Gasoline by Method NWTPH-Gx

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BYB0156 - VOA										
Blank (BYB0156-BLK1)					Prepared: 2/23/2024 Analyzed: 2/28/2024					
Gasoline	ND		10	mg/kg wet						
Surrogate: Toluene-d8			*19.9*	*ug/L*	*20.0*		*99.6*	*47.3-146*		
Duplicate (BYB0156-DUP1)		**Parent: L24B087-05**			Prepared: 2/23/2024 Analyzed: 2/28/2024					
Gasoline	ND		8.5	mg/kg dry		ND				35
Surrogate: Toluene-d8			*18.0*	*ug/L*	*20.0*		*90.2*	*47.3-146*		
Blank (BYB0171-BLK1)					Prepared & Analyzed: 2/29/2024					
Gasoline	ND		10	mg/kg wet						
Surrogate: Toluene-d8			*19.2*	*ug/L*	*20.0*		*96.0*	*47.3-146*		
Duplicate (BYB0171-DUP1)		**Parent: L24B094-01**			Prepared & Analyzed: 2/29/2024					
Gasoline	ND		8.2	mg/kg dry		ND				35
Surrogate: Toluene-d8			*17.0*	*ug/L*	*20.0*		*85.2*	*47.3-146*		
Batch: BYB0162 - VOA										
Blank (BYB0162-BLK1)					Prepared & Analyzed: 2/28/2024					
Gasoline	ND		100	ug/L						
Surrogate: Toluene-d8			*19.9*	*ug/L*	*20.0*		*99.6*	*47.3-146*		
LCS (BYB0162-BS1)					Prepared & Analyzed: 2/28/2024					
Gasoline	ND		100	ug/L				80-120		
Surrogate: Toluene-d8			*19.0*	*ug/L*	*20.0*		*95.0*	*47.3-146*		
Duplicate (BYB0162-DUP1)		**Parent: L24B084-01**			Prepared & Analyzed: 2/28/2024					
Gasoline	ND		100	ug/L		ND				35
Surrogate: Toluene-d8			*18.6*	*ug/L*	*20.0*		*93.2*	*47.3-146*		

AEG an Atlas Geosciences NW Company	**Project:** Fox's Carwash	**City/State:** Vancouver, WA
2633 Parkmont Lane SW, Suite A	**Project Number:** 24-105	**Work Order:** L24B087
Olympia, WA 98502	**Project Manager:** Scott Rose	**Reported:** 03/13/2024 15:28

Quality Control
(Continued)

Moisture by ASTM D2216-19

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BYB0159 - Gen Chem										
LCS (BYB0159-BS1)					Prepared & Analyzed: 2/28/2024					
Moisture	18			%	17.0		106	90-115		

Libby Environmental, Inc.

3322 South Bay Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@gmail.com

Fox's Carwash Project
AEG an Atlas Geosciences NW Company
Libby Work Order # L24B087
Date Received 2/23/2024
Time Received 1:13 PM

Received By KLI/CA

Sample Receipt Checklist

Chain of Custody

1. Is the Chain of Custody is complete?	☑ Yes	☐ No	
2. How was the sample delivered?	☑ Hand Delivered	☐ Picked Up	☐ Shipped

Log In

3. Cooler or Shipping Container is present.	☑ Yes	☐ No	☐ N/A
4. Cooler or Shipping Container is in good condition.	☑ Yes	☐ No	☐ N/A
5. Cooler or Shipping Container has Custody Seals present.	☐ Yes	☑ No	☐ N/A
6. Was an attempt made to cool the samples?	☑ Yes	☐ No	☐ N/A
7. Temperature of cooler (0°C to 8°C recommended)	2.3 °C		
8. Temperature of sample(s) (0°C to 8°C recommended)	10.2 °C		
9. Did all containers arrive in good condition (unbroken)?	☑ Yes	☐ No	
10. Is it clear what analyses were requested?	☑ Yes	☐ No	
11. Did container labels match Chain of Custody?	☑ Yes	☐ No	
12. Are matrices correctly identified on Chain of Custody?	☑ Yes	☐ No	
13. Are correct containers used for the analysis indicated?	☑ Yes	☐ No	
14. Is there sufficient sample volume for indicated analysis?	☑ Yes	☐ No	
15. Were all containers properly preserved per each analysis?	☑ Yes	☐ No	
16. Were VOA vials collected correctly (no headspace)?	☑ Yes	☐ No	☐ N/A
17. Were all holding times able to be met?	☑ Yes	☐ No	

Discrepancies/ Notes

18. Was client notified of all discrepancies?	☐ Yes	☐ No	☑ N/A

Person Notified: _____ Date: _____

By Whom: _____ Via: _____

Regarding: _____

19. Comments. _____

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

March 7, 2024

Sherry Chilcutt
Libby Environmental, Inc.
3322 South Bay Road NE
Olympia, WA 98506

Re: Analytical Data for Project L24B087
Laboratory Reference No. 2402-325

Dear Sherry:

Enclosed are the analytical results and associated quality control data for samples submitted on February 27, 2024.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: March 7, 2024
Samples Submitted: February 27, 2024
Laboratory Reference: 2402-325
Project: L24B087

Case Narrative

Samples were collected on February 22, 2024 and received by the laboratory on February 27, 2024. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: March 7, 2024
Samples Submitted: February 27, 2024
Laboratory Reference: 2402-325
Project: L24B087

VOLATILE PETROLEUM HYDROCARBONS

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B9-10**					
Laboratory ID:	02-325-01					
Aliphatic C5-C6	**6.6**	5.0	NWTPH-VPH	2-28-24	3-4-24	
Aliphatic C6-C8	**100**	5.0	NWTPH-VPH	2-28-24	3-4-24	
Aliphatic C8-C10	**130**	5.0	NWTPH-VPH	2-28-24	3-4-24	
Aliphatic C10-C12	**15**	5.0	NWTPH-VPH	2-28-24	3-4-24	
Total Aliphatic:	**250**		NWTPH-VPH	2-28-24	3-4-24	
Aromatic C8-C10	**42**	5.0	NWTPH-VPH	2-28-24	3-4-24	
Aromatic C10-C12	**250**	5.0	NWTPH-VPH	2-28-24	3-4-24	
Aromatic C12-C13	**430**	5.0	NWTPH-VPH	2-28-24	3-4-24	
Total Aromatic:	**720**		NWTPH-VPH	2-28-24	3-4-24	
Methyl t-butyl ether	**ND**	0.60	EPA 8021B	2-28-24	3-4-24	
Benzene	**0.56**	0.12	EPA 8021B	2-28-24	3-4-24	
Toluene	**ND**	0.60	EPA 8021B	2-28-24	3-4-24	
Ethylbenzene	**ND**	0.60	EPA 8021B	2-28-24	3-4-24	
m,p-Xylene	**ND**	0.60	EPA 8021B	2-28-24	3-4-24	
o-Xylene	**ND**	0.60	EPA 8021B	2-28-24	3-4-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	---	*65-126*				S

Date of Report: March 7, 2024
Samples Submitted: February 27, 2024
Laboratory Reference: 2402-325
Project: L24B087

VOLATILE PETROLEUM HYDROCARBONS

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B12-10**					
Laboratory ID:	02-325-02					
Aliphatic C5-C6	**ND**	5.0	NWTPH-VPH	2-28-24	2-28-24	
Aliphatic C6-C8	**ND**	5.0	NWTPH-VPH	2-28-24	2-28-24	
Aliphatic C8-C10	**ND**	5.0	NWTPH-VPH	2-28-24	2-28-24	
Aliphatic C10-C12	**ND**	5.0	NWTPH-VPH	2-28-24	2-28-24	
Total Aliphatic:	**NA**		NWTPH-VPH	2-28-24	2-28-24	
Aromatic C8-C10	**ND**	5.0	NWTPH-VPH	2-28-24	2-28-24	
Aromatic C10-C12	**ND**	5.0	NWTPH-VPH	2-28-24	2-28-24	
Aromatic C12-C13	**ND**	5.0	NWTPH-VPH	2-28-24	2-28-24	
Total Aromatic:	**NA**		NWTPH-VPH	2-28-24	2-28-24	
Methyl t-butyl ether	**ND**	0.058	EPA 8021B	2-28-24	2-28-24	
Benzene	**ND**	0.020	EPA 8021B	2-28-24	2-28-24	
Toluene	**ND**	0.058	EPA 8021B	2-28-24	2-28-24	
Ethylbenzene	**ND**	0.058	EPA 8021B	2-28-24	2-28-24	
m,p-Xylene	**ND**	0.058	EPA 8021B	2-28-24	2-28-24	
o-Xylene	**ND**	0.058	EPA 8021B	2-28-24	2-28-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*124*	*65-126*				

Date of Report: March 7, 2024
Samples Submitted: February 27, 2024
Laboratory Reference: 2402-325
Project: L24B087

VOLATILE PETROLEUM HYDROCARBONS
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0228S3					
Aliphatic C5-C6	**ND**	5.0	NWTPH-VPH	2-28-24	2-28-24	
Aliphatic C6-C8	**ND**	5.0	NWTPH-VPH	2-28-24	2-28-24	
Aliphatic C8-C10	**ND**	5.0	NWTPH-VPH	2-28-24	2-28-24	
Aliphatic C10-C12	**ND**	5.0	NWTPH-VPH	2-28-24	2-28-24	
Total Aliphatic:	**NA**		NWTPH-VPH	2-28-24	2-28-24	
Aromatic C8-C10	**ND**	5.0	NWTPH-VPH	2-28-24	2-28-24	
Aromatic C10-C12	**ND**	5.0	NWTPH-VPH	2-28-24	2-28-24	
Aromatic C12-C13	**ND**	5.0	NWTPH-VPH	2-28-24	2-28-24	
Total Aromatic:	**NA**		NWTPH-VPH	2-28-24	2-28-24	
Methyl t-butyl ether	**ND**	0.050	EPA 8021B	2-28-24	2-28-24	
Benzene	**ND**	0.020	EPA 8021B	2-28-24	2-28-24	
Toluene	**ND**	0.050	EPA 8021B	2-28-24	2-28-24	
Ethylbenzene	**ND**	0.050	EPA 8021B	2-28-24	2-28-24	
m,p-Xylene	**ND**	0.050	EPA 8021B	2-28-24	2-28-24	
o-Xylene	**ND**	0.050	EPA 8021B	2-28-24	2-28-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*90*	*65-126*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0228S2										
	SB	SBD	SB	SBD		SB	SBD				
Benzene	**0.958**	**0.938**	1.00	1.00		**96**	**94**	77-113	2	10	
Toluene	**0.974**	**0.966**	1.00	1.00		**97**	**97**	81-115	1	10	
Ethylbenzene	**1.00**	**0.991**	1.00	1.00		**100**	**99**	80-115	1	10	
m,p-Xylene	**1.02**	**0.989**	1.00	1.00		**102**	**99**	81-115	3	11	
o-Xylene	**1.00**	**0.981**	1.00	1.00		**100**	**98**	82-115	2	11	
Surrogate:											
Fluorobenzene						*93*	*91*	*65-126*			

Date of Report: March 7, 2024
Samples Submitted: February 27, 2024
Laboratory Reference: 2402-325
Project: L24B087

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
B9-10	02-325-01	**27**	2-29-24
B12-10	02-325-02	**28**	2-29-24

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Libby Environmental, Inc.

3322 South Bay Road NE • Olympia, WA 98506-2957

SUBCONTRACT ORDER L24B087

Sending Laboratory:

Libby Environmental, Inc.
3322 South Bay Road NE
Olympia, WA 98506
Phone: 360-352-2110
Fax: 360-352-4154

Project Manager: Sherry Chilcutt
LibbyEnv@gmail.com

Subcontracted Laboratory: 02-325

OnSite Environmental, Inc.
14648 NE 95th Street
Redmond, WA 98052
Phone: (425) 883-3881
Fax:

Requested Turnaround (TAT) Standard

Project: Fox's Carwash

Analysis	Comments % MOISTURE

1 **Client Sample ID: B9-10** ***Soil*** ***Sampled: 02/22/2024 11:46*** X Lab ID: L24B087-06

VPH

Containers Supplied:

2 **Client Sample ID: B12-10** ***Soil*** ***Sampled: 02/22/2024 14:50*** X Lab ID: L24B087-21

VPH

Containers Supplied:

TARE WEIGHT OF VOAs WITH CH_3OH PROVIDED ON SAMPLE LABEL IN LOWER RIGHT HAND CORNER.

Released By 2-26-24 Date

Received By 2/27/24 Date 1300

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

Libby Environmental
Sherry Chilcutt
3322 South Bay Road NE
Olympia, WA 98506

RE: Fox's Carwash
Work Order Number: 2402476

March 12, 2024

Attention Sherry Chilcutt:

Fremont Analytical, Inc. received 2 sample(s) on 2/27/2024 for the analyses presented in the following report.

Extractable Petroleum Hydrocarbons by NWEPH
Sample Moisture (Percent Moisture)

This report consists of the following:

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

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

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

Date: *03/12/2024*

CLIENT: Libby Environmental
Project: Fox's Carwash
Work Order: 2402476

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2402476-001	B9-10	02/22/2024 11:46 AM	02/27/2024 9:50 AM
2402476-002	B12-10	02/22/2024 2:50 PM	02/27/2024 9:50 AM

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

Original

Case Narrative

WO#: **2402476**
Date: **3/12/2024**

CLIENT: Libby Environmental
Project: Fox's Carwash

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:

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

Acronyms:

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

Analytical Report

Work Order: **2402476**
Date Reported: **3/12/2024**

Client: Libby Environmental
Collection Date: 2/22/2024 11:46:00 AM
Project: Fox's Carwash
Lab ID: 2402476-001
Matrix: Soil
Client Sample ID: **B9-10**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Extractable Petroleum Hydrocarbons by NWEPH				Batch ID: 43075		Analyst: AP
Aliphatic Hydrocarbon (C8-C10)	ND	23.8		mg/Kg-dry	1	3/12/2024 11:58:45 AM
Aliphatic Hydrocarbon (C10-C12)	17.7	11.9		mg/Kg-dry	1	3/12/2024 11:58:45 AM
Aliphatic Hydrocarbon (C12-C16)	37.6	11.9		mg/Kg-dry	1	3/12/2024 11:58:45 AM
Aliphatic Hydrocarbon (C16-C21)	ND	11.9		mg/Kg-dry	1	3/12/2024 11:58:45 AM
Aliphatic Hydrocarbon (C21-C34)	ND	11.9		mg/Kg-dry	1	3/12/2024 11:58:45 AM
Aromatic Hydrocarbon (C8-C10)	ND	23.8		mg/Kg-dry	1	3/11/2024 4:20:45 PM
Aromatic Hydrocarbon (C10-C12)	ND	11.9		mg/Kg-dry	1	3/11/2024 4:20:45 PM
Aromatic Hydrocarbon (C12-C16)	15.9	11.9		mg/Kg-dry	1	3/11/2024 4:20:45 PM
Aromatic Hydrocarbon (C16-C21)	19.7	11.9		mg/Kg-dry	1	3/11/2024 4:20:45 PM
Aromatic Hydrocarbon (C21-C34)	ND	11.9		mg/Kg-dry	1	3/11/2024 4:20:45 PM
Surr: 1-Chlorooctadecane	59.1	50 - 150		%Rec	1	3/12/2024 11:58:45 AM
Surr: o-Terphenyl	78.1	50 - 150		%Rec	1	3/11/2024 4:20:45 PM
Sample Moisture (Percent Moisture)				Batch ID: R89872		Analyst: MP
Percent Moisture	22.0	0.500		wt%	1	2/28/2024 8:29:32 AM

Analytical Report

Work Order: **2402476**
Date Reported: **3/12/2024**

Client: Libby Environmental
Collection Date: 2/22/2024 2:50:00 PM
Project: Fox's Carwash
Lab ID: 2402476-002
Matrix: Soil
Client Sample ID: **B12-10**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Extractable Petroleum Hydrocarbons by NWEPH				Batch ID: 43075		Analyst: AP
Aliphatic Hydrocarbon (C8-C10)	ND	25.0		mg/Kg-dry	1	3/11/2024 4:42:29 PM
Aliphatic Hydrocarbon (C10-C12)	ND	12.5		mg/Kg-dry	1	3/11/2024 4:42:29 PM
Aliphatic Hydrocarbon (C12-C16)	ND	12.5		mg/Kg-dry	1	3/11/2024 4:42:29 PM
Aliphatic Hydrocarbon (C16-C21)	ND	12.5		mg/Kg-dry	1	3/11/2024 4:42:29 PM
Aliphatic Hydrocarbon (C21-C34)	ND	12.5		mg/Kg-dry	1	3/11/2024 4:42:29 PM
Aromatic Hydrocarbon (C8-C10)	ND	25.0		mg/Kg-dry	1	3/11/2024 4:42:29 PM
Aromatic Hydrocarbon (C10-C12)	ND	12.5		mg/Kg-dry	1	3/11/2024 4:42:29 PM
Aromatic Hydrocarbon (C12-C16)	ND	12.5		mg/Kg-dry	1	3/11/2024 4:42:29 PM
Aromatic Hydrocarbon (C16-C21)	ND	12.5		mg/Kg-dry	1	3/11/2024 4:42:29 PM
Aromatic Hydrocarbon (C21-C34)	ND	12.5		mg/Kg-dry	1	3/11/2024 4:42:29 PM
Surr: 1-Chlorooctadecane	51.4	50 - 150		%Rec	1	3/11/2024 4:42:29 PM
Surr: o-Terphenyl	91.6	50 - 150		%Rec	1	3/11/2024 4:42:29 PM
Sample Moisture (Percent Moisture)				Batch ID: R89872		Analyst: MP
Percent Moisture	23.5	0.500		wt%	1	2/28/2024 8:29:32 AM

Work Order: 2402476
CLIENT: Libby Environmental
Project: Fox's Carwash

QC SUMMARY REPORT

Extractable Petroleum Hydrocarbons by NWEPH

Sample ID: **MB-43075**	SampType: **MBLK**	Units: **mg/Kg**	Prep Date: **2/28/2024**	RunNo: **90107**
Client ID: **MBLKS**	Batch ID: **43075**		Analysis Date: **3/7/2024**	SeqNo: **1879958**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C8-C10)	ND	20.0									
Aliphatic Hydrocarbon (C10-C12)	ND	10.0									
Aliphatic Hydrocarbon (C12-C16)	ND	10.0									
Aliphatic Hydrocarbon (C16-C21)	ND	10.0									
Aliphatic Hydrocarbon (C21-C34)	ND	10.0									
Surr: 1-Chlorooctadecane	63.0		100.0		63.0	50	150				

Sample ID: **MB-43075**	SampType: **MBLK**	Units: **mg/Kg**	Prep Date: **2/28/2024**	RunNo: **90108**
Client ID: **MBLKS**	Batch ID: **43075**		Analysis Date: **3/7/2024**	SeqNo: **1879983**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aromatic Hydrocarbon (C8-C10)	ND	20.0									
Aromatic Hydrocarbon (C10-C12)	ND	10.0									
Aromatic Hydrocarbon (C12-C16)	ND	10.0									
Aromatic Hydrocarbon (C16-C21)	ND	10.0									
Aromatic Hydrocarbon (C21-C34)	ND	10.0									
Surr: o-Terphenyl	101		100.0		101	50	150				

Sample ID: **LCS-43075**	SampType: **LCS**	Units: **mg/Kg**	Prep Date: **2/28/2024**	RunNo: **90107**
Client ID: **LCSS**	Batch ID: **43075**		Analysis Date: **3/7/2024**	SeqNo: **1879959**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C8-C10)	120	20.0	250.0	0	48.1	15.9	130				
Aliphatic Hydrocarbon (C10-C12)	76.8	10.0	125.0	0	61.4	30.4	115				
Aliphatic Hydrocarbon (C12-C16)	74.9	10.0	125.0	0	59.9	39.8	130				
Aliphatic Hydrocarbon (C16-C21)	73.4	10.0	125.0	0	58.7	50.3	123				
Aliphatic Hydrocarbon (C21-C34)	75.9	10.0	125.0	0	60.7	36.6	144				
Surr: 1-Chlorooctadecane	62.9		100.0		62.9	50	150				

Work Order: 2402476
CLIENT: Libby Environmental
Project: Fox's Carwash

QC SUMMARY REPORT

Extractable Petroleum Hydrocarbons by NWEPH

Sample ID: **LCS-43075** SampType: **LCS** Units: **mg/Kg** Prep Date: **2/28/2024** RunNo: **90108**
Client ID: **LCSS** Batch ID: **43075** Analysis Date: **3/7/2024** SeqNo: **1879984**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aromatic Hydrocarbon (C8-C10)	160	20.0	250.0	0	64.1	18.6	130				
Aromatic Hydrocarbon (C10-C12)	113	10.0	125.0	0	90.2	42.7	105				
Aromatic Hydrocarbon (C12-C16)	119	10.0	125.0	0	95.0	43.6	124				
Aromatic Hydrocarbon (C16-C21)	121	10.0	125.0	0	96.7	49.5	124				
Aromatic Hydrocarbon (C21-C34)	119	10.0	125.0	0	95.6	54.8	124				
Surr: o-Terphenyl	88.2		100.0		88.2	50	150				

Sample ID: **2402486-002AMS** SampType: **MS** Units: **mg/Kg-dry** Prep Date: **2/28/2024** RunNo: **90107**
Client ID: **BATCH** Batch ID: **43075** Analysis Date: **3/7/2024** SeqNo: **1880274**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C8-C10)	99.0	23.5	293.3	0	33.7	5.92	63.1				
Aliphatic Hydrocarbon (C10-C12)	71.2	11.7	146.7	0	48.5	5	112				
Aliphatic Hydrocarbon (C12-C16)	72.8	11.7	146.7	3.006	47.6	5	158				
Aliphatic Hydrocarbon (C16-C21)	75.2	11.7	146.7	0	51.3	17.3	103				
Aliphatic Hydrocarbon (C21-C34)	77.7	11.7	146.7	0	53.0	9.18	109				
Surr: 1-Chlorooctadecane	62.8		117.3		53.5	50	150				

Sample ID: **2402486-002AMS** SampType: **MS** Units: **mg/Kg-dry** Prep Date: **2/28/2024** RunNo: **90108**
Client ID: **BATCH** Batch ID: **43075** Analysis Date: **3/7/2024** SeqNo: **1880327**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aromatic Hydrocarbon (C8-C10)	206	23.5	293.3	10.30	66.7	16.6	74.1				
Aromatic Hydrocarbon (C10-C12)	160	11.7	146.7	18.81	96.0	28.2	96.4				
Aromatic Hydrocarbon (C12-C16)	162	11.7	146.7	13.27	102	9.59	118				
Aromatic Hydrocarbon (C16-C21)	146	11.7	146.7	8.166	94.3	22.1	125				
Aromatic Hydrocarbon (C21-C34)	131	11.7	146.7	0	89.1	8.01	145				
Surr: o-Terphenyl	117		117.3		99.7	50	150				

Work Order: 2402476
CLIENT: Libby Environmental
Project: Fox's Carwash

QC SUMMARY REPORT

Extractable Petroleum Hydrocarbons by NWEPH

Sample ID: **2402486-002AMSD** SampType: **MSD** Units: **mg/Kg-dry** Prep Date: **2/28/2024** RunNo: **90107**
Client ID: **BATCH** Batch ID: **43075** Analysis Date: **3/7/2024** SeqNo: **1880275**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C8-C10)	18.1	23.5	294.2	0	6.15	5.92	63.1	98.95	138	30	
Aliphatic Hydrocarbon (C10-C12)	50.5	11.8	147.1	0	34.3	5	112	71.17	34.0	30	R
Aliphatic Hydrocarbon (C12-C16)	77.6	11.8	147.1	3.006	50.7	5	158	72.81	6.41	30	
Aliphatic Hydrocarbon (C16-C21)	77.9	11.8	147.1	0	53.0	17.3	103	75.24	3.51	30	
Aliphatic Hydrocarbon (C21-C34)	80.3	11.8	147.1	0	54.6	9.18	109	77.66	3.31	30	
Surr: 1-Chlorooctadecane	65.6		117.7		55.8	50	150		0		

NOTES:
R - High RPD observed, spike recovery is within range.

Sample ID: **2402486-002AMSD** SampType: **MSD** Units: **mg/Kg-dry** Prep Date: **2/28/2024** RunNo: **90108**
Client ID: **BATCH** Batch ID: **43075** Analysis Date: **3/7/2024** SeqNo: **1880328**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aromatic Hydrocarbon (C8-C10)	217	23.5	294.2	10.30	70.4	16.6	74.1	205.8	5.45	30	
Aromatic Hydrocarbon (C10-C12)	159	11.8	147.1	18.81	95.6	28.2	96.4	159.7	0.162	30	
Aromatic Hydrocarbon (C12-C16)	163	11.8	147.1	13.27	102	9.59	118	162.2	0.591	30	
Aromatic Hydrocarbon (C16-C21)	145	11.8	147.1	8.166	93.2	22.1	125	146.4	0.808	30	
Aromatic Hydrocarbon (C21-C34)	142	11.8	147.1	0	96.6	8.01	145	130.7	8.34	30	
Surr: o-Terphenyl	113		117.7		96.1	50	150		0		

Fremont Analytical
An Alliance Technical Group Company

Sample Log-In Check List

Client Name:	LIBBY	Work Order Number:	2402476
Logged by:	Morgan Wilson	Date Received:	2/27/2024 9:50:00 AM

Chain of Custody

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

Log In

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

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified:		Date:	
By Whom:		Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:			
Client Instructions:			

17. Additional remarks:

Item Information

Item #	Temp ºC
Sample	3.8

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

Libby Environmental, Inc.

3322 South Bay Road NE • Olympia, WA 98506-2957

SUBCONTRACT ORDER L24B087

2402476

Sending Laboratory:

Libby Environmental, Inc.
3322 South Bay Road NE
Olympia, WA 98506
Phone: 360-352-2110
Fax: 360-352-4154

Project Manager: Sherry Chilcutt
LibbyEnv@gmail.com

Subcontracted Laboratory:

Fremont Analytical, Inc.
3600 Fremont Ave N
Seattle, WA 98103
Phone: (206) 352-3790
Fax:

Requested Turnaround (TAT) Standard

Project: Fox's Carwash

Analysis	Comments

Client Sample ID: B9-10 ***Soil Sampled: 02/22/2024 11:46*** Lab ID: L24B087-06

EPH

Containers Supplied:

Client Sample ID: B12-10 ***Soil Sampled: 02/22/2024 14:50*** Lab ID: L24B087-21

EPH

Containers Supplied:

Released By — Date: 2-26-24

Received By — Date: 2/27/24 950

Libby Environmental, Inc.

3322 South Bay Road NE • Olympia, WA 98506-2957

Phone (360) 352-2110 • libbyenv@gmail.com

April 11, 2024

Scott Rose
AEG an Atlas Geosciences NW Company
2633 Parkmont Lane SW, Suite A
Olympia, WA 98502

RE: Fox's Carwash
Work Order Number: L24D032

Enclosed are the results of analyses for samples received by our laboratory on 4/8/2024.

Applicable detection limits and QA/QC data are included. The sample(s) will be disposed of within 30 days unless we are contacted to arrange long term storage.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please feel free to contact us. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Sherry Chilcutt
Senior Chemist

Libby Environmental, Inc.

3322 South Bay Road NE
Olympia, WA 98506
Ph: 360-352-2110
Fax: 360-352-4154

Chain of Custody Record

www.LibbyEnvironmental.c

Date: 4/8/24 Page: 1 of 1

Client: AEG Atlas
Project Manager: Scott Rose
Address:
Project Name: Fox's Creek
City: State: Zip:
Location: Vancouver WA City, State:
Phone: Fax:
Collector: Edvard M. Date of Collection: 4/8/24
Client Project # 24-105
Email: srose@aegwa.com

	Sample Number	Depth	Time	Sample Type	Container Type	VOC 8260	PCE & Daughter Prod.	NWTPH-Gx	BTEX (8260) / (8021)	NWTPH-HCID	NWTPH-Dx / Dx	PCB 8082	MTCA 5 Metals	RCRA 8 Metals	c PAH 8270	PAH 8270	Semi Vol 8270			Field Notes
1	B13-5	5	11:11	Soil	2x20mL; 1x4oz			X	X											
2	B13-10	10	11:15																	
3	B13-15	15	11:20																	
4	B14-5	5	11:34																	
5	B14-10	10	11:38																	
6	B14-15	15	11:46																	
7	B15-5	5	11:55																	
8	B15-10	10	12:01																	
9	B15-15	15	12:06																	
10	B16-5	5	13:15																	
11	B16-10	10	13:25																	
12	B16-15	15	13:37																	
13	B13-W	N/A	11:30	Gw	3x40mL															
14	B14-W		12:30																	
15	B15-W		12:50																	
16	B16-W		13:45																	
17																				

Relinquished by:	Date / Time	Received by:	Date / Time
[signature]	4/8/24 17:13	[signature]	4-8-24 1713
Relinquished by:	Date / Time	Received by:	Date / Time
Relinquished by:	Date / Time	Received by:	Date / Time

Sample Receipt

Good Condition?	Y	N
Cooler Temp.		°C
Sample Temp.		°C
Total Number of Containers		

Remarks:
4-9-24 STANDARD TAT PER SCOTT VIA EMAIL.

TAT: 1-Day 2-Day 5-DAY

Distribution: White - Lab, Yellow - Originator

Libby Environmental, Inc.

AEG an Atlas Geosciences NW Company
2633 Parkmont Lane SW, Suite A
Olympia, WA 98502

Project: Fox's Carwash
Project Number: 24-105
Project Manager: Scott Rose

City/State: Vancouver, WA
Work Order: L24D032
Reported: 04/11/2024 11:49

Notes and Definitions

Item	Definition
R	High Relative Percent Difference observed.
RL	Reporting Limit
ND	Analyte NOT DETECTED at or above the reporting limit
DET	Analyte DETECTED at or above the reporting limit
Qual	Qualifier
	All results reported on an "as received" basis unless indicated by "Dry"
RPD	Relative Percent Difference
%REC	Percent Recovery
Parent	Sample that was matrix spiked or duplicated

Work Order Sample Summary

Lab ID	Sample	Matrix	Date Sampled	Date Received
L24D032-01	B13-5	Soil	04/08/2024	04/08/2024
L24D032-02	B13-10	Soil	04/08/2024	04/08/2024
L24D032-03	B13-15	Soil	04/08/2024	04/08/2024
L24D032-04	B14-5	Soil	04/08/2024	04/08/2024
L24D032-05	B14-10	Soil	04/08/2024	04/08/2024
L24D032-06	B14-15	Soil	04/08/2024	04/08/2024
L24D032-07	B15-5	Soil	04/08/2024	04/08/2024
L24D032-08	B15-10	Soil	04/08/2024	04/08/2024
L24D032-09	B15-15	Soil	04/08/2024	04/08/2024
L24D032-10	B16-5	Soil	04/08/2024	04/08/2024
L24D032-11	B16-10	Soil	04/08/2024	04/08/2024
L24D032-12	B16-15	Soil	04/08/2024	04/08/2024
L24D032-13	B13-W	Water	04/08/2024	04/08/2024
L24D032-14	B14-W	Water	04/08/2024	04/08/2024
L24D032-15	B15-W	Water	04/08/2024	04/08/2024
L24D032-16	B16-W	Water	04/08/2024	04/08/2024

Libby Environmental, Inc.

AEG an Atlas Geosciences NW Company
2633 Parkmont Lane SW, Suite A
Olympia, WA 98502

Project: Fox's Carwash
Project Number: 24-105
Project Manager: Scott Rose

City/State: Vancouver, WA
Work Order: L24D032
Reported: 04/11/2024 11:49

Libby Environmental Sample Detection Summary

Analyte	Result	Qual	Units	RL	Method
Sample: **B16-5**			Lab#: L24D032-10		
Benzene	0.034		mg/kg dry	0.021	8260D
Sample: **B16-W**			Lab#: L24D032-16		
Gasoline	1100		ug/L	100	NWTPH-Gx
Benzene	60		ug/L	1.0	8260D
Toluene	210		ug/L	10	8260D
Ethylbenzene	16		ug/L	1.0	8260D
Total Xylenes	190		ug/L	2.0	8260D

Note: If no entry is made, then no target compounds were detected.

AEG an Atlas Geosciences NW Company
2633 Parkmont Lane SW, Suite A
Olympia, WA 98502

Project: Fox's Carwash
Project Number: 24-105
Project Manager: Scott Rose

City/State: Vancouver, WA
Work Order: L24D032
Reported: 04/11/2024 11:49

Sample Results

Client Sample ID: B13-5

Lab ID: L24D032-01 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D						
Benzene	ND		0.021	mg/kg dry	04/10/2024	AA
Toluene	ND		0.11	mg/kg dry	04/10/2024	AA
Ethylbenzene	ND		0.053	mg/kg dry	04/10/2024	AA
Total Xylenes	ND		0.16	mg/kg dry	04/10/2024	AA
Surrogate: Dibromofluoromethane	*131%*		*49.6-175*		*04/10/2024*	*AA*
Surrogate: 1,2-Dichloroethane-d4	*128%*		*31.7-194*		*04/10/2024*	*AA*
Surrogate: Toluene-d8	*91.0%*		*52.9-135*		*04/10/2024*	*AA*
Surrogate: 4-Bromofluorobenzene	*76.2%*		*50.8-121*		*04/10/2024*	*AA*
Gasoline by Method NWTPH-Gx						
Gasoline	ND		11	mg/kg dry	04/10/2024	AA
Surrogate: Toluene-d8	*91.0%*		*52.9-135*		*04/10/2024*	*AA*
Moisture by ASTM D2216-19						
Moisture	27		0.50	%	04/10/2024	JC

AEG an Atlas Geosciences NW Company
2633 Parkmont Lane SW, Suite A
Olympia, WA 98502

Project: Fox's Carwash
Project Number: 24-105
Project Manager: Scott Rose

City/State: Vancouver, WA
Work Order: L24D032
Reported: 04/11/2024 11:49

Sample Results (Continued)

Client Sample ID: B13-10

Lab ID: L24D032-02 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D						
Benzene	ND		0.022	mg/kg dry	04/10/2024	AA
Toluene	ND		0.11	mg/kg dry	04/10/2024	AA
Ethylbenzene	ND		0.054	mg/kg dry	04/10/2024	AA
Total Xylenes	ND		0.16	mg/kg dry	04/10/2024	AA
Surrogate: Dibromofluoromethane	*127%*		*49.6-175*		*04/10/2024*	*AA*
Surrogate: 1,2-Dichloroethane-d4	*130%*		*31.7-194*		*04/10/2024*	*AA*
Surrogate: Toluene-d8	*89.6%*		*52.9-135*		*04/10/2024*	*AA*
Surrogate: 4-Bromofluorobenzene	*77.0%*		*50.8-121*		*04/10/2024*	*AA*
Gasoline by Method NWTPH-Gx						
Gasoline	ND		11	mg/kg dry	04/10/2024	AA
Surrogate: Toluene-d8	*89.6%*		*52.9-135*		*04/10/2024*	*AA*
Moisture by ASTM D2216-19						
Moisture	28		0.50	%	04/10/2024	JC

AEG an Atlas Geosciences NW Company
2633 Parkmont Lane SW, Suite A
Olympia, WA 98502

Project: Fox's Carwash
Project Number: 24-105
Project Manager: Scott Rose

City/State: Vancouver, WA
Work Order: L24D032
Reported: 04/11/2024 11:49

Sample Results (Continued)

Client Sample ID: B13-15

Lab ID: L24D032-03 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D						
Benzene	ND		0.022	mg/kg dry	04/10/2024	AA
Toluene	ND		0.11	mg/kg dry	04/10/2024	AA
Ethylbenzene	ND		0.055	mg/kg dry	04/10/2024	AA
Total Xylenes	ND		0.16	mg/kg dry	04/10/2024	AA
Surrogate: Dibromofluoromethane	*127%*		*49.6-175*		*04/10/2024*	*AA*
Surrogate: 1,2-Dichloroethane-d4	*134%*		*31.7-194*		*04/10/2024*	*AA*
Surrogate: Toluene-d8	*92.4%*		*52.9-135*		*04/10/2024*	*AA*
Surrogate: 4-Bromofluorobenzene	*78.9%*		*50.8-121*		*04/10/2024*	*AA*
Gasoline by Method NWTPH-Gx						
Gasoline	ND		11	mg/kg dry	04/10/2024	AA
Surrogate: Toluene-d8	*92.4%*		*52.9-135*		*04/10/2024*	*AA*
Moisture by ASTM D2216-19						
Moisture	28		0.50	%	04/10/2024	JC

AEG an Atlas Geosciences NW Company
2633 Parkmont Lane SW, Suite A
Olympia, WA 98502

Project: Fox's Carwash
Project Number: 24-105
Project Manager: Scott Rose

City/State: Vancouver, WA
Work Order: L24D032
Reported: 04/11/2024 11:49

Sample Results (Continued)

Client Sample ID: B14-5

Lab ID: L24D032-04 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D						
Benzene	ND		0.020	mg/kg dry	04/10/2024	AA
Toluene	ND		0.10	mg/kg dry	04/10/2024	AA
Ethylbenzene	ND		0.051	mg/kg dry	04/10/2024	AA
Total Xylenes	ND		0.15	mg/kg dry	04/10/2024	AA
Surrogate: Dibromofluoromethane	*131%*		*49.6-175*		*04/10/2024*	*AA*
Surrogate: 1,2-Dichloroethane-d4	*135%*		*31.7-194*		*04/10/2024*	*AA*
Surrogate: Toluene-d8	*88.4%*		*52.9-135*		*04/10/2024*	*AA*
Surrogate: 4-Bromofluorobenzene	*82.8%*		*50.8-121*		*04/10/2024*	*AA*
Gasoline by Method NWTPH-Gx						
Gasoline	ND		10	mg/kg dry	04/10/2024	AA
Surrogate: Toluene-d8	*88.4%*		*52.9-135*		*04/10/2024*	*AA*
Moisture by ASTM D2216-19						
Moisture	26		0.50	%	04/10/2024	JC

AEG an Atlas Geosciences NW Company
2633 Parkmont Lane SW, Suite A
Olympia, WA 98502

Project: Fox's Carwash
Project Number: 24-105
Project Manager: Scott Rose

City/State: Vancouver, WA
Work Order: L24D032
Reported: 04/11/2024 11:49

Sample Results (Continued)

Client Sample ID: B14-10

Lab ID: L24D032-05 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D						
Benzene	ND		0.021	mg/kg dry	04/10/2024	AA
Toluene	ND		0.11	mg/kg dry	04/10/2024	AA
Ethylbenzene	ND		0.053	mg/kg dry	04/10/2024	AA
Total Xylenes	ND		0.16	mg/kg dry	04/10/2024	AA
Surrogate: Dibromofluoromethane	*146%*		*49.6-175*		*04/10/2024*	*AA*
Surrogate: 1,2-Dichloroethane-d4	*155%*		*31.7-194*		*04/10/2024*	*AA*
Surrogate: Toluene-d8	*92.0%*		*52.9-135*		*04/10/2024*	*AA*
Surrogate: 4-Bromofluorobenzene	*85.8%*		*50.8-121*		*04/10/2024*	*AA*
Gasoline by Method NWTPH-Gx						
Gasoline	ND		11	mg/kg dry	04/10/2024	AA
Surrogate: Toluene-d8	*92.0%*		*52.9-135*		*04/10/2024*	*AA*
Moisture by ASTM D2216-19						
Moisture	27		0.50	%	04/10/2024	JC

AEG an Atlas Geosciences NW Company
2633 Parkmont Lane SW, Suite A
Olympia, WA 98502

Project: Fox's Carwash
Project Number: 24-105
Project Manager: Scott Rose

City/State: Vancouver, WA
Work Order: L24D032
Reported: 04/11/2024 11:49

Sample Results (Continued)

Client Sample ID: B14-15

Lab ID: L24D032-06 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D						
Benzene	ND		0.021	mg/kg dry	04/10/2024	AA
Toluene	ND		0.11	mg/kg dry	04/10/2024	AA
Ethylbenzene	ND		0.053	mg/kg dry	04/10/2024	AA
Total Xylenes	ND		0.16	mg/kg dry	04/10/2024	AA
Surrogate: Dibromofluoromethane	*136%*		*49.6-175*		*04/10/2024*	*AA*
Surrogate: 1,2-Dichloroethane-d4	*153%*		*31.7-194*		*04/10/2024*	*AA*
Surrogate: Toluene-d8	*93.4%*		*52.9-135*		*04/10/2024*	*AA*
Surrogate: 4-Bromofluorobenzene	*118%*		*50.8-121*		*04/10/2024*	*AA*
Gasoline by Method NWTPH-Gx						
Gasoline	ND		11	mg/kg dry	04/10/2024	AA
Surrogate: Toluene-d8	*93.4%*		*52.9-135*		*04/10/2024*	*AA*
Moisture by ASTM D2216-19						
Moisture	27		0.50	%	04/10/2024	JC

AEG an Atlas Geosciences NW Company
2633 Parkmont Lane SW, Suite A
Olympia, WA 98502

Project: Fox's Carwash
Project Number: 24-105
Project Manager: Scott Rose

City/State: Vancouver, WA
Work Order: L24D032
Reported: 04/11/2024 11:49

Sample Results (Continued)

Client Sample ID: B15-5

Lab ID: L24D032-07 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D						
Benzene	ND		0.021	mg/kg dry	04/10/2024	AA
Toluene	ND		0.10	mg/kg dry	04/10/2024	AA
Ethylbenzene	ND		0.052	mg/kg dry	04/10/2024	AA
Total Xylenes	ND		0.15	mg/kg dry	04/10/2024	AA
Surrogate: Dibromofluoromethane	*132%*		*49.6-175*		*04/10/2024*	*AA*
Surrogate: 1,2-Dichloroethane-d4	*138%*		*31.7-194*		*04/10/2024*	*AA*
Surrogate: Toluene-d8	*91.2%*		*52.9-135*		*04/10/2024*	*AA*
Surrogate: 4-Bromofluorobenzene	*78.4%*		*50.8-121*		*04/10/2024*	*AA*
Gasoline by Method NWTPH-Gx						
Gasoline	ND		10	mg/kg dry	04/10/2024	AA
Surrogate: Toluene-d8	*91.2%*		*52.9-135*		*04/10/2024*	*AA*
Moisture by ASTM D2216-19						
Moisture	26		0.50	%	04/10/2024	JC

AEG an Atlas Geosciences NW Company
2633 Parkmont Lane SW, Suite A
Olympia, WA 98502

Project: Fox's Carwash
Project Number: 24-105
Project Manager: Scott Rose

City/State: Vancouver, WA
Work Order: L24D032
Reported: 04/11/2024 11:49

Sample Results (Continued)

Client Sample ID: B15-10

Lab ID: L24D032-08 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D						
Benzene	ND		0.021	mg/kg dry	04/10/2024	AA
Toluene	ND		0.11	mg/kg dry	04/10/2024	AA
Ethylbenzene	ND		0.054	mg/kg dry	04/10/2024	AA
Total Xylenes	ND		0.16	mg/kg dry	04/10/2024	AA
Surrogate: Dibromofluoromethane	*152%*		*49.6-175*		*04/10/2024*	*AA*
Surrogate: 1,2-Dichloroethane-d4	*175%*		*31.7-194*		*04/10/2024*	*AA*
Surrogate: Toluene-d8	*87.0%*		*52.9-135*		*04/10/2024*	*AA*
Surrogate: 4-Bromofluorobenzene	*80.6%*		*50.8-121*		*04/10/2024*	*AA*
Gasoline by Method NWTPH-Gx						
Gasoline	ND		11	mg/kg dry	04/10/2024	AA
Surrogate: Toluene-d8	*87.0%*		*52.9-135*		*04/10/2024*	*AA*
Moisture by ASTM D2216-19						
Moisture	28		0.50	%	04/10/2024	JC

AEG an Atlas Geosciences NW Company
2633 Parkmont Lane SW, Suite A
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Project: Fox's Carwash
Project Number: 24-105
Project Manager: Scott Rose

City/State: Vancouver, WA
Work Order: L24D032
Reported: 04/11/2024 11:49

Sample Results (Continued)

Client Sample ID: B15-15

Lab ID: L24D032-09 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D						
Benzene	ND		0.022	mg/kg dry	04/10/2024	AA
Toluene	ND		0.11	mg/kg dry	04/10/2024	AA
Ethylbenzene	ND		0.055	mg/kg dry	04/10/2024	AA
Total Xylenes	ND		0.16	mg/kg dry	04/10/2024	AA
Surrogate: Dibromofluoromethane	*132%*		*49.6-175*		*04/10/2024*	*AA*
Surrogate: 1,2-Dichloroethane-d4	*133%*		*31.7-194*		*04/10/2024*	*AA*
Surrogate: Toluene-d8	*94.0%*		*52.9-135*		*04/10/2024*	*AA*
Surrogate: 4-Bromofluorobenzene	*74.8%*		*50.8-121*		*04/10/2024*	*AA*
Gasoline by Method NWTPH-Gx						
Gasoline	ND		11	mg/kg dry	04/10/2024	AA
Surrogate: Toluene-d8	*94.0%*		*52.9-135*		*04/10/2024*	*AA*
Moisture by ASTM D2216-19						
Moisture	28		0.50	%	04/10/2024	JC

AEG an Atlas Geosciences NW Company	**Project:** Fox's Carwash	**City/State:** Vancouver, WA
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Olympia, WA 98502	**Project Manager:** Scott Rose	**Reported:** 04/11/2024 11:49

Sample Results (Continued)

Client Sample ID: B16-5

Lab ID: L24D032-10 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D						
Benzene	0.034		0.021	mg/kg dry	04/10/2024	AA
Toluene	ND		0.11	mg/kg dry	04/10/2024	AA
Ethylbenzene	ND		0.053	mg/kg dry	04/10/2024	AA
Total Xylenes	ND		0.16	mg/kg dry	04/10/2024	AA
Surrogate: Dibromofluoromethane	*127%*		*49.6-175*		*04/10/2024*	*AA*
Surrogate: 1,2-Dichloroethane-d4	*147%*		*31.7-194*		*04/10/2024*	*AA*
Surrogate: Toluene-d8	*82.8%*		*52.9-135*		*04/10/2024*	*AA*
Surrogate: 4-Bromofluorobenzene	*80.6%*		*50.8-121*		*04/10/2024*	*AA*
Gasoline by Method NWTPH-Gx						
Gasoline	ND		11	mg/kg dry	04/10/2024	AA
Surrogate: Toluene-d8	*82.8%*		*52.9-135*		*04/10/2024*	*AA*
Moisture by ASTM D2216-19						
Moisture	27		0.50	%	04/10/2024	JC

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Project Number: 24-105
Project Manager: Scott Rose

City/State: Vancouver, WA
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Sample Results (Continued)

Client Sample ID: B16-10

Lab ID: L24D032-11 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D						
Benzene	ND		0.021	mg/kg dry	04/10/2024	AA
Toluene	ND		0.11	mg/kg dry	04/10/2024	AA
Ethylbenzene	ND		0.053	mg/kg dry	04/10/2024	AA
Total Xylenes	ND		0.16	mg/kg dry	04/10/2024	AA
Surrogate: Dibromofluoromethane	*129%*		*49.6-175*		*04/10/2024*	*AA*
Surrogate: 1,2-Dichloroethane-d4	*134%*		*31.7-194*		*04/10/2024*	*AA*
Surrogate: Toluene-d8	*91.8%*		*52.9-135*		*04/10/2024*	*AA*
Surrogate: 4-Bromofluorobenzene	*77.2%*		*50.8-121*		*04/10/2024*	*AA*
Gasoline by Method NWTPH-Gx						
Gasoline	ND		11	mg/kg dry	04/10/2024	AA
Surrogate: Toluene-d8	*91.8%*		*52.9-135*		*04/10/2024*	*AA*
Moisture by ASTM D2216-19						
Moisture	27		0.50	%	04/10/2024	JC

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Project: Fox's Carwash
Project Number: 24-105
Project Manager: Scott Rose

City/State: Vancouver, WA
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Sample Results (Continued)

Client Sample ID: B16-15

Lab ID: L24D032-12 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D						
Benzene	ND		0.023	mg/kg dry	04/10/2024	AA
Toluene	ND		0.11	mg/kg dry	04/10/2024	AA
Ethylbenzene	ND		0.057	mg/kg dry	04/10/2024	AA
Total Xylenes	ND		0.17	mg/kg dry	04/10/2024	AA
Surrogate: Dibromofluoromethane	*133%*		*49.6-175*		*04/10/2024*	*AA*
Surrogate: 1,2-Dichloroethane-d4	*138%*		*31.7-194*		*04/10/2024*	*AA*
Surrogate: Toluene-d8	*90.0%*		*52.9-135*		*04/10/2024*	*AA*
Surrogate: 4-Bromofluorobenzene	*77.2%*		*50.8-121*		*04/10/2024*	*AA*
Gasoline by Method NWTPH-Gx						
Gasoline	ND		11	mg/kg dry	04/10/2024	AA
Surrogate: Toluene-d8	*90.0%*		*52.9-135*		*04/10/2024*	*AA*
Moisture by ASTM D2216-19						
Moisture	30		0.50	%	04/10/2024	JC

AEG an Atlas Geosciences NW Company	**Project:** Fox's Carwash	**City/State:** Vancouver, WA
2633 Parkmont Lane SW, Suite A	**Project Number:** 24-105	**Work Order:** L24D032
Olympia, WA 98502	**Project Manager:** Scott Rose	**Reported:** 04/11/2024 11:49

Sample Results (Continued)

Client Sample ID: B13-W

Lab ID: L24D032-13 (Water)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D						
Benzene	ND		1.0	ug/L	04/09/2024	AA
Toluene	ND		2.0	ug/L	04/09/2024	AA
Ethylbenzene	ND		1.0	ug/L	04/09/2024	AA
Total Xylenes	ND		2.0	ug/L	04/09/2024	AA
Surrogate: Dibromofluoromethane	*134%*		*22.9-220*		*04/09/2024*	*AA*
Surrogate: 1,2-Dichloroethane-d4	*138%*		*32.2-196*		*04/09/2024*	*AA*
Surrogate: Toluene-d8	*90.0%*		*47.3-146*		*04/09/2024*	*AA*
Surrogate: 4-Bromofluorobenzene	*82.0%*		*38.4-136*		*04/09/2024*	*AA*
Gasoline by Method NWTPH-Gx						
Gasoline	ND		100	ug/L	04/09/2024	AA
Surrogate: Toluene-d8	*90.0%*		*47.3-146*		*04/09/2024*	*AA*

AEG an Atlas Geosciences NW Company	**Project:** Fox's Carwash	**City/State:** Vancouver, WA
2633 Parkmont Lane SW, Suite A	**Project Number:** 24-105	**Work Order:** L24D032
Olympia, WA 98502	**Project Manager:** Scott Rose	**Reported:** 04/11/2024 11:49

Sample Results (Continued)

Client Sample ID: B14-W

Lab ID: L24D032-14 (Water)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D						
Benzene	ND		1.0	ug/L	04/09/2024	AA
Toluene	ND		2.0	ug/L	04/09/2024	AA
Ethylbenzene	ND		1.0	ug/L	04/09/2024	AA
Total Xylenes	ND		2.0	ug/L	04/09/2024	AA
Surrogate: Dibromofluoromethane	*132%*		*22.9-220*		*04/09/2024*	*AA*
Surrogate: 1,2-Dichloroethane-d4	*132%*		*32.2-196*		*04/09/2024*	*AA*
Surrogate: Toluene-d8	*89.3%*		*47.3-146*		*04/09/2024*	*AA*
Surrogate: 4-Bromofluorobenzene	*82.8%*		*38.4-136*		*04/09/2024*	*AA*
Gasoline by Method NWTPH-Gx						
Gasoline	ND		100	ug/L	04/09/2024	AA
Surrogate: Toluene-d8	*89.3%*		*47.3-146*		*04/09/2024*	*AA*

AEG an Atlas Geosciences NW Company	**Project:** Fox's Carwash	**City/State:** Vancouver, WA
2633 Parkmont Lane SW, Suite A	**Project Number:** 24-105	**Work Order:** L24D032
Olympia, WA 98502	**Project Manager:** Scott Rose	**Reported:** 04/11/2024 11:49

Sample Results (Continued)

Client Sample ID: B15-W

Lab ID: L24D032-15 (Water)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D						
Benzene	ND		1.0	ug/L	04/09/2024	AA
Toluene	ND		2.0	ug/L	04/09/2024	AA
Ethylbenzene	ND		1.0	ug/L	04/09/2024	AA
Total Xylenes	ND		2.0	ug/L	04/09/2024	AA
Surrogate: Dibromofluoromethane	*131%*		*22.9-220*		*04/09/2024*	*AA*
Surrogate: 1,2-Dichloroethane-d4	*136%*		*32.2-196*		*04/09/2024*	*AA*
Surrogate: Toluene-d8	*91.4%*		*47.3-146*		*04/09/2024*	*AA*
Surrogate: 4-Bromofluorobenzene	*78.8%*		*38.4-136*		*04/09/2024*	*AA*
Gasoline by Method NWTPH-Gx						
Gasoline	ND		100	ug/L	04/09/2024	AA
Surrogate: Toluene-d8	*91.4%*		*47.3-146*		*04/09/2024*	*AA*

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Sample Results (Continued)

Client Sample ID: B16-W

Lab ID: L24D032-16 (Water)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D						
Benzene	60		1.0	ug/L	04/09/2024	AA
Toluene	210		10	ug/L	04/09/2024	AA
Ethylbenzene	16		1.0	ug/L	04/09/2024	AA
Total Xylenes	190		2.0	ug/L	04/09/2024	AA
Surrogate: Dibromofluoromethane	*120%*		*22.9-220*		*04/09/2024*	*AA*
Surrogate: 1,2-Dichloroethane-d4	*118%*		*32.2-196*		*04/09/2024*	*AA*
Surrogate: Toluene-d8	*83.4%*		*47.3-146*		*04/09/2024*	*AA*
Surrogate: 4-Bromofluorobenzene	*107%*		*38.4-136*		*04/09/2024*	*AA*
Gasoline by Method NWTPH-Gx						
Gasoline	1100		100	ug/L	04/09/2024	AA
Surrogate: Toluene-d8	*83.4%*		*47.3-146*		*04/09/2024*	*AA*

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Project Manager: Scott Rose

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Quality Control

Volatile Organic Compounds by EPA Method 8260D

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BYD0064 - VOA										
Blank (BYD0064-BLK1)					Prepared & Analyzed: 4/10/2024					
Benzene	ND		0.020	mg/kg wet						
Toluene	ND		0.10	mg/kg wet						
Ethylbenzene	ND		0.050	mg/kg wet						
Total Xylenes	ND		0.15	mg/kg wet						
Surrogate: Dibromofluoromethane			*29.4*	*ug/L*	*20.0*		*147*	*49.6-175*		
Surrogate: 1,2-Dichloroethane-d4			*35.1*	*ug/L*	*20.0*		*175*	*31.7-194*		
Surrogate: Toluene-d8			*19.2*	*ug/L*	*20.0*		*96.0*	*52.9-135*		
Surrogate: 4-Bromofluorobenzene			*16.0*	*ug/L*	*20.0*		*79.8*	*50.8-121*		
LCS (BYD0064-BS1)					Prepared & Analyzed: 4/10/2024					
Benzene	0.208		0.020	mg/kg wet	0.250		83.0	54.1-136		
Toluene	0.215		0.10	mg/kg wet	0.250		85.9	53.3-135		
Ethylbenzene	0.215		0.050	mg/kg wet	0.250		86.0	51.1-125		
Total Xylenes	0.591		0.15	mg/kg wet	0.750		78.9	47.2-123		
Surrogate: Dibromofluoromethane			*24.6*	*ug/L*	*20.0*		*123*	*49.6-175*		
Surrogate: 1,2-Dichloroethane-d4			*25.5*	*ug/L*	*20.0*		*127*	*31.7-194*		
Surrogate: Toluene-d8			*17.9*	*ug/L*	*20.0*		*89.3*	*52.9-135*		
Surrogate: 4-Bromofluorobenzene			*21.4*	*ug/L*	*20.0*		*107*	*50.8-121*		
Duplicate (BYD0064-DUP1)		**Parent: L24D032-11**			Prepared & Analyzed: 4/10/2024					
Benzene	ND		0.021	mg/kg dry		ND				35
Toluene	ND		0.10	mg/kg dry		ND				35
Ethylbenzene	ND		0.052	mg/kg dry		ND				35
Total Xylenes	ND		0.16	mg/kg dry		ND				35
Surrogate: Dibromofluoromethane			*25.7*	*ug/L*	*20.0*		*129*	*49.6-175*		
Surrogate: 1,2-Dichloroethane-d4			*27.7*	*ug/L*	*20.0*		*138*	*31.7-194*		
Surrogate: Toluene-d8			*17.2*	*ug/L*	*20.0*		*86.2*	*52.9-135*		
Surrogate: 4-Bromofluorobenzene			*16.0*	*ug/L*	*20.0*		*80.2*	*50.8-121*		
Duplicate (BYD0064-DUP2)		**Parent: L24D032-01**			Prepared & Analyzed: 4/10/2024					
Benzene	ND		0.021	mg/kg dry		ND				35
Toluene	ND		0.11	mg/kg dry		ND				35
Ethylbenzene	ND		0.053	mg/kg dry		ND				35
Total Xylenes	ND		0.16	mg/kg dry		ND				35
Surrogate: Dibromofluoromethane			*24.5*	*ug/L*	*20.0*		*123*	*49.6-175*		
Surrogate: 1,2-Dichloroethane-d4			*25.2*	*ug/L*	*20.0*		*126*	*31.7-194*		
Surrogate: Toluene-d8			*17.8*	*ug/L*	*20.0*		*89.2*	*52.9-135*		
Surrogate: 4-Bromofluorobenzene			*15.3*	*ug/L*	*20.0*		*76.6*	*50.8-121*		

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Project: Fox's Carwash
Project Number: 24-105
Project Manager: Scott Rose

City/State: Vancouver, WA
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Reported: 04/11/2024 11:49

Quality Control
(Continued)

Volatile Organic Compounds by EPA Method 8260D (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Matrix Spike (BYD0064-MS1)		**Parent: L24D032-01**			Prepared & Analyzed: 4/10/2024					
Benzene	0.217		0.021	mg/kg dry	0.266	ND	81.6	37-148		
Toluene	0.232		0.11	mg/kg dry	0.266	ND	87.2	28.1-154		
Ethylbenzene	0.228		0.053	mg/kg dry	0.266	ND	85.7	27-142		
Total Xylenes	0.612		0.16	mg/kg dry	0.797	ND	76.7	23.4-152		
Surrogate: Dibromofluoromethane			*22.8*	*ug/L*	*20.0*		*114*	*49.6-175*		
Surrogate: 1,2-Dichloroethane-d4			*23.9*	*ug/L*	*20.0*		*120*	*31.7-194*		
Surrogate: Toluene-d8			*18.2*	*ug/L*	*20.0*		*91.1*	*52.9-135*		
Surrogate: 4-Bromofluorobenzene			*20.6*	*ug/L*	*20.0*		*103*	*50.8-121*		
Matrix Spike Dup (BYD0064-MSD1)		**Parent: L24D032-01**			Prepared & Analyzed: 4/10/2024					
Benzene	0.118	R	0.021	mg/kg dry	0.266	ND	44.2	37-148	59.5	35
Toluene	0.119	R	0.11	mg/kg dry	0.266	ND	44.7	28.1-154	64.6	35
Ethylbenzene	0.114	R	0.053	mg/kg dry	0.266	ND	42.9	27-142	66.6	35
Total Xylenes	0.300	R	0.16	mg/kg dry	0.797	ND	37.7	23.4-152	68.3	35
Surrogate: Dibromofluoromethane			*21.9*	*ug/L*	*20.0*		*110*	*49.6-175*		
Surrogate: 1,2-Dichloroethane-d4			*22.2*	*ug/L*	*20.0*		*111*	*31.7-194*		
Surrogate: Toluene-d8			*17.7*	*ug/L*	*20.0*		*88.5*	*52.9-135*		
Surrogate: 4-Bromofluorobenzene			*19.7*	*ug/L*	*20.0*		*98.6*	*50.8-121*		
Batch: BYD0052 - VOA										
Blank (BYD0052-BLK1)					Prepared & Analyzed: 4/9/2024					
Benzene	ND		1.0	ug/L						
Toluene	ND		2.0	ug/L						
Ethylbenzene	ND		1.0	ug/L						
Total Xylenes	ND		2.0	ug/L						
Surrogate: Dibromofluoromethane			*27.4*	*ug/L*	*20.0*		*137*	*22.9-220*		
Surrogate: 1,2-Dichloroethane-d4			*30.8*	*ug/L*	*20.0*		*154*	*32.2-196*		
Surrogate: Toluene-d8			*16.7*	*ug/L*	*20.0*		*83.4*	*47.3-146*		
Surrogate: 4-Bromofluorobenzene			*16.6*	*ug/L*	*20.0*		*83.2*	*38.4-136*		
LCS (BYD0052-BS1)					Prepared & Analyzed: 4/9/2024					
Benzene	4.64		1.0	ug/L	5.00		92.8	56.1-138		
Toluene	4.30		2.0	ug/L	5.00		85.9	54-132		
Ethylbenzene	4.29		1.0	ug/L	5.00		85.8	53.8-127		
Total Xylenes	11.4		2.0	ug/L	15.0		75.7	37.5-127		
Surrogate: Dibromofluoromethane			*25.7*	*ug/L*	*20.0*		*129*	*22.9-220*		
Surrogate: 1,2-Dichloroethane-d4			*28.0*	*ug/L*	*20.0*		*140*	*32.2-196*		
Surrogate: Toluene-d8			*17.6*	*ug/L*	*20.0*		*87.8*	*47.3-146*		
Surrogate: 4-Bromofluorobenzene			*21.0*	*ug/L*	*20.0*		*105*	*38.4-136*		

AEG an Atlas Geosciences NW Company
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Project: Fox's Carwash
Project Number: 24-105
Project Manager: Scott Rose

City/State: Vancouver, WA
Work Order: L24D032
Reported: 04/11/2024 11:49

Quality Control
(Continued)

Volatile Organic Compounds by EPA Method 8260D (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Duplicate (BYD0052-DUP1)		**Parent: L24D032-13**			Prepared & Analyzed: 4/9/2024					
Benzene	ND		1.0	ug/L		ND				35
Toluene	ND		2.0	ug/L		ND				35
Ethylbenzene	ND		1.0	ug/L		ND				35
Total Xylenes	ND		2.0	ug/L		ND				35
Surrogate: Dibromofluoromethane			*23.0*	*ug/L*	*20.0*		*115*	*22.9-220*		
Surrogate: 1,2-Dichloroethane-d4			*18.6*	*ug/L*	*20.0*		*92.9*	*32.2-196*		
Surrogate: Toluene-d8			*19.0*	*ug/L*	*20.0*		*95.0*	*47.3-146*		
Surrogate: 4-Bromofluorobenzene			*15.7*	*ug/L*	*20.0*		*78.4*	*38.4-136*		
Matrix Spike (BYD0052-MS1)		**Parent: L24D032-13**			Prepared & Analyzed: 4/9/2024					
Benzene	4.38		1.0	ug/L	5.00	ND	87.5	10-188		
Toluene	4.73		2.0	ug/L	5.00	ND	94.6	10-251		
Ethylbenzene	4.19		1.0	ug/L	5.00	ND	83.8	10-267		
Total Xylenes	11.2		2.0	ug/L	15.0	ND	74.8	10-184		
Surrogate: Dibromofluoromethane			*26.0*	*ug/L*	*20.0*		*130*	*22.9-220*		
Surrogate: 1,2-Dichloroethane-d4			*27.9*	*ug/L*	*20.0*		*139*	*32.2-196*		
Surrogate: Toluene-d8			*18.3*	*ug/L*	*20.0*		*91.4*	*47.3-146*		
Surrogate: 4-Bromofluorobenzene			*20.2*	*ug/L*	*20.0*		*101*	*38.4-136*		
Matrix Spike Dup (BYD0052-MSD1)		**Parent: L24D032-13**			Prepared & Analyzed: 4/9/2024					
Benzene	4.38		1.0	ug/L	5.00	ND	87.6	10-188	0.0685	35
Toluene	4.49		2.0	ug/L	5.00	ND	89.7	10-251	5.34	35
Ethylbenzene	4.49		1.0	ug/L	5.00	ND	89.7	10-267	6.78	35
Total Xylenes	12.2		2.0	ug/L	15.0	ND	81.1	10-184	8.00	35
Surrogate: Dibromofluoromethane			*22.5*	*ug/L*	*20.0*		*113*	*22.9-220*		
Surrogate: 1,2-Dichloroethane-d4			*24.0*	*ug/L*	*20.0*		*120*	*32.2-196*		
Surrogate: Toluene-d8			*17.4*	*ug/L*	*20.0*		*87.2*	*47.3-146*		
Surrogate: 4-Bromofluorobenzene			*20.3*	*ug/L*	*20.0*		*102*	*38.4-136*		

AEG an Atlas Geosciences NW Company
2633 Parkmont Lane SW, Suite A
Olympia, WA 98502

Project: Fox's Carwash
Project Number: 24-105
Project Manager: Scott Rose

City/State: Vancouver, WA
Work Order: L24D032
Reported: 04/11/2024 11:49

Quality Control
(Continued)

Gasoline by Method NWTPH-Gx

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BYD0064 - VOA										
Blank (BYD0064-BLK1)					Prepared & Analyzed: 4/10/2024					
Gasoline	ND		10	mg/kg wet						
Surrogate: Toluene-d8			*19.2*	*ug/L*	*20.0*		*96.0*	*52.9-135*		
Duplicate (BYD0064-DUP1)		**Parent: L24D032-11**			Prepared & Analyzed: 4/10/2024					
Gasoline	ND		10	mg/kg dry		ND				35
Surrogate: Toluene-d8			*17.2*	*ug/L*	*20.0*		*86.2*	*52.9-135*		
Duplicate (BYD0064-DUP2)		**Parent: L24D032-01**			Prepared & Analyzed: 4/10/2024					
Gasoline	ND		11	mg/kg dry		ND				35
Surrogate: Toluene-d8			*17.8*	*ug/L*	*20.0*		*89.2*	*52.9-135*		
Batch: BYD0052 - VOA										
Blank (BYD0052-BLK1)					Prepared & Analyzed: 4/9/2024					
Gasoline	ND		100	ug/L						
Surrogate: Toluene-d8			*16.7*	*ug/L*	*20.0*		*83.4*	*47.3-146*		
Duplicate (BYD0052-DUP1)		**Parent: L24D032-13**			Prepared & Analyzed: 4/9/2024					
Gasoline	ND		100	ug/L		ND				35
Surrogate: Toluene-d8			*19.0*	*ug/L*	*20.0*		*95.0*	*47.3-146*		

AEG an Atlas Geosciences NW Company	**Project:** Fox's Carwash	**City/State:** Vancouver, WA
2633 Parkmont Lane SW, Suite A	**Project Number:** 24-105	**Work Order:** L24D032
Olympia, WA 98502	**Project Manager:** Scott Rose	**Reported:** 04/11/2024 11:49

Quality Control
(Continued)

Moisture by ASTM D2216-19

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BYD0061 - Gen Chem										
LCS (BYD0061-BS1)					Prepared & Analyzed: 4/10/2024					
Moisture	18			%	17.0		106	90-115		

Libby Environmental, Inc.

3322 South Bay Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@gmail.com

Fox's Carwash Project
AEG an Atlas Geosciences NW Company
Libby Work Order # L24D032
Date Received 4/8/2024
Time Received 5:13 PM

Received By KD

Sample Receipt Checklist

Chain of Custody

1. Is the Chain of Custody is complete?	☑ Yes	☐ No	
2. How was the sample delivered?	☑ Hand Delivered	☐ Picked Up	☐ Shipped

Log In

3. Cooler or Shipping Container is present.	☑ Yes	☐ No	☐ N/A
4. Cooler or Shipping Container is in good condition.	☑ Yes	☐ No	☐ N/A
5. Cooler or Shipping Container has Custody Seals present.	☐ Yes	☑ No	☐ N/A
6. Was an attempt made to cool the samples?	☑ Yes	☐ No	☐ N/A
7. Temperature of cooler (0°C to 8°C recommended)	2.0 °C		
8. Temperature of sample(s) (0°C to 8°C recommended)	8.6 °C		
9. Did all containers arrive in good condition (unbroken)?	☑ Yes	☐ No	
10. Is it clear what analyses were requested?	☑ Yes	☐ No	
11. Did container labels match Chain of Custody?	☑ Yes	☐ No	
12. Are matrices correctly identified on Chain of Custody?	☑ Yes	☐ No	
13. Are correct containers used for the analysis indicated?	☑ Yes	☐ No	
14. Is there sufficient sample volume for indicated analysis?	☑ Yes	☐ No	
15. Were all containers properly preserved per each analysis?	☑ Yes	☐ No	
16. Were VOA vials collected correctly (no headspace)?	☑ Yes	☐ No	☐ N/A
17. Were all holding times able to be met?	☑ Yes	☐ No	

Discrepancies/ Notes

18. Was client notified of all discrepancies? ☐ Yes ☐ No ☑ N/A

Person Notified: _____ Date: _____

By Whom: _____ Via: _____

Regarding: _____

19. Comments. _____

APPENDIX C

Terrestrial Ecological Evaluation
Washington Environmental Health Disparities Map
EJScreen Community Report
National Flood Hazard Layer FIRMette
Table C1– Summary of Projected Climate

2633 Parkmont Lane SW, Suite A • Olympia, WA • 98502
Phone: 360-352-9835 • Fax: 360-352-8164 • Email: admin@aegwa.com

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 https://ecology.wa.gov/Regulations-Permits/Guidance-technical-assistance/Terrestrial-ecological-evaluation.

Step 1: IDENTIFY HAZARDOUS WASTE SITE	
Please identify below the hazardous waste site for which you are documenting an evaluation.	
Facility/Site Name: Fox's Carwash	
Facility/Site Address: 8200 NE Hwy 99, Vancouver, Washington	
Facility/Site No: 18315758	VCP Project No.:

Step 2: IDENTIFY EVALUATOR			
Please identify below the person who conducted the evaluation and their contact information.			
Name: Edvard Melesh			Title: Staff Geologist
Organization: AEG Atlas, LLC			
Mailing address: 2633 Parkmont Lane SW, Suite A			
City: Olympia		State: WA	Zip code: 98502-5751
Phone: 360-352-9835	Fax:		E-mail: emelesh@aegwa.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 Unknown *If you answered **"NO" or "UNKNOWN,"** then skip to **Step 3B** of this form.*

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 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 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.

B. Simplified evaluation.

1. Does the Site qualify for a simplified evaluation?

☐ Yes *If you answered **"YES,"** then answer **Question 2** below.*

☐ No or Unknown *If you answered **"NO"** or **"UNKNOWN,"** then skip to **Step 3C** of this form.*

2. Did you conduct a simplified evaluation?

☐ Yes *If you answered **"YES,"** then answer **Question 3** below.*

☐ No *If you answered **"NO,"** then skip to **Step 3C** of this form.*

3. Was further evaluation necessary?

☐ Yes *If you answered **"YES,"** then answer **Question 4** below.*

☐ No *If you answered **"NO,"** then answer **Question 5** below.*

4. If further evaluation was necessary, what did you do?

☐ Used the concentrations listed in Table 749-2 as cleanup levels. *If so, then skip to **Step 4** of this form.*

☐ Conducted a site-specific evaluation. *If so, then skip to **Step 3C** of this form.*

5. If no further evaluation was necessary, what was the reason? *Check all that apply. Then skip to **Step 4** of this form.*

Exposure Analysis: WAC 173-340-7492(2)(a)

☐ Area of soil contamination at the Site is not more than 350 square feet.

☐ Current or planned land use makes wildlife exposure unlikely. Used Table 749-1.

Pathway Analysis: WAC 173-340-7492(2)(b)

☐ No potential exposure pathways from soil contamination to ecological receptors.

Contaminant Analysis: WAC 173-340-7492(2)(c)

☐ No contaminant listed in Table 749-2 is, or will be, present in the upper 15 feet at concentrations that exceed the values listed in Table 749-2.

☐ No contaminant listed in Table 749-2 is, or will be, present in the upper 6 feet (or alternative depth if approved by Ecology) at concentrations that exceed the values listed in Table 749-2, and institutional controls are used to manage remaining contamination.

☐ No contaminant listed in Table 749-2 is, or will be, present in the upper 15 feet at concentrations likely to be toxic or have the potential to bioaccumulate as determined using Ecology-approved bioassays.

☐ No contaminant listed in Table 749-2 is, or will be, present in the upper 6 feet (or alternative depth if approved by Ecology) at concentrations likely to be toxic or have the potential to bioaccumulate as determined using Ecology-approved bioassays, and institutional controls are used to manage remaining contamination.

C. Site-specific evaluation. A site-specific evaluation process consists of two parts: (1) formulating the problem, and (2) selecting the methods for addressing the identified problem. Both steps require consultation with and approval by Ecology. *See* WAC 173-340-7493(1)(c).

1. Was there a problem? *See* WAC 173-340-7493(2).

☐ Yes *If you answered **"YES,"** then answer **Question 2** below.*

☐ No *If you answered **"NO,"** then identify the reason here and then skip to **Question 5** below:*

- ☐ No issues were identified during the problem formulation step.
- ☐ While issues were identified, those issues were addressed by the cleanup actions for protecting human health.

2. What did you do to resolve the problem? *See* WAC 173-340-7493(3).

- ☐ Used the concentrations listed in Table 749-3 as cleanup levels. *If so, then skip to **Question 5** below.*
- ☐ Used one or more of the methods listed in WAC 173-340-7493(3) to evaluate and address the identified problem. *If so, then answer **Questions 3 and 4** below.*

3. If you conducted further site-specific evaluations, what methods did you use?
Check all that apply. See WAC 173-340-7493(3).

- ☐ Literature surveys.
- ☐ Soil bioassays.
- ☐ Wildlife exposure model.
- ☐ Biomarkers.
- ☐ Site-specific field studies.
- ☐ Weight of evidence.
- ☐ Other methods approved by Ecology. If so, please specify:

4. What was the result of those evaluations?

- ☐ Confirmed there was no problem.
- ☐ Confirmed there was a problem and established site-specific cleanup levels.

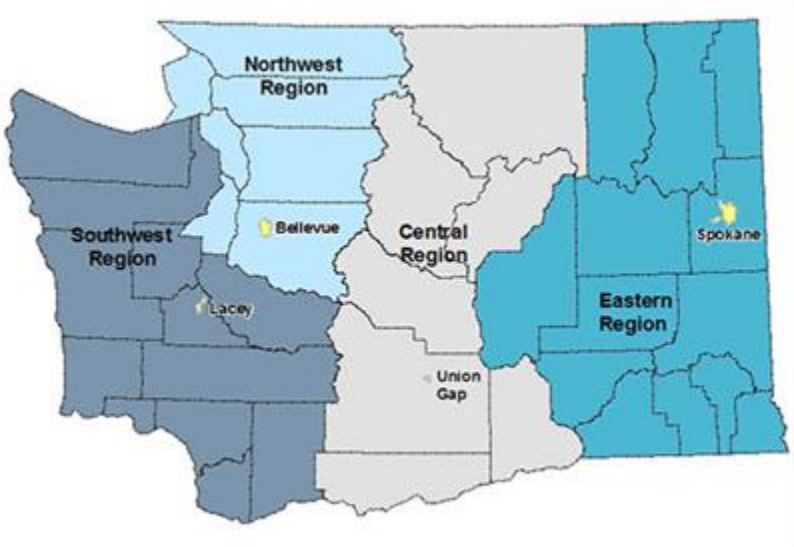
5. Have you already obtained Ecology's approval of both your problem formulation and problem resolution steps?

☐ Yes If so, please identify the Ecology staff who approved those steps:

☐ No

Step 4: SUBMITTAL

Please mail your completed form to the Ecology site manager assigned to your Site. If a site 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	**Central Region:** Attn: VCP Coordinator 1250 West Alder St. Union Gap, WA 98903-0009
Southwest Region: Attn: VCP Coordinator P.O. Box 47775 Olympia, WA 98504-7775	**Eastern Region:** Attn: VCP Coordinator N. 4601 Monroe Spokane WA 99205-1295

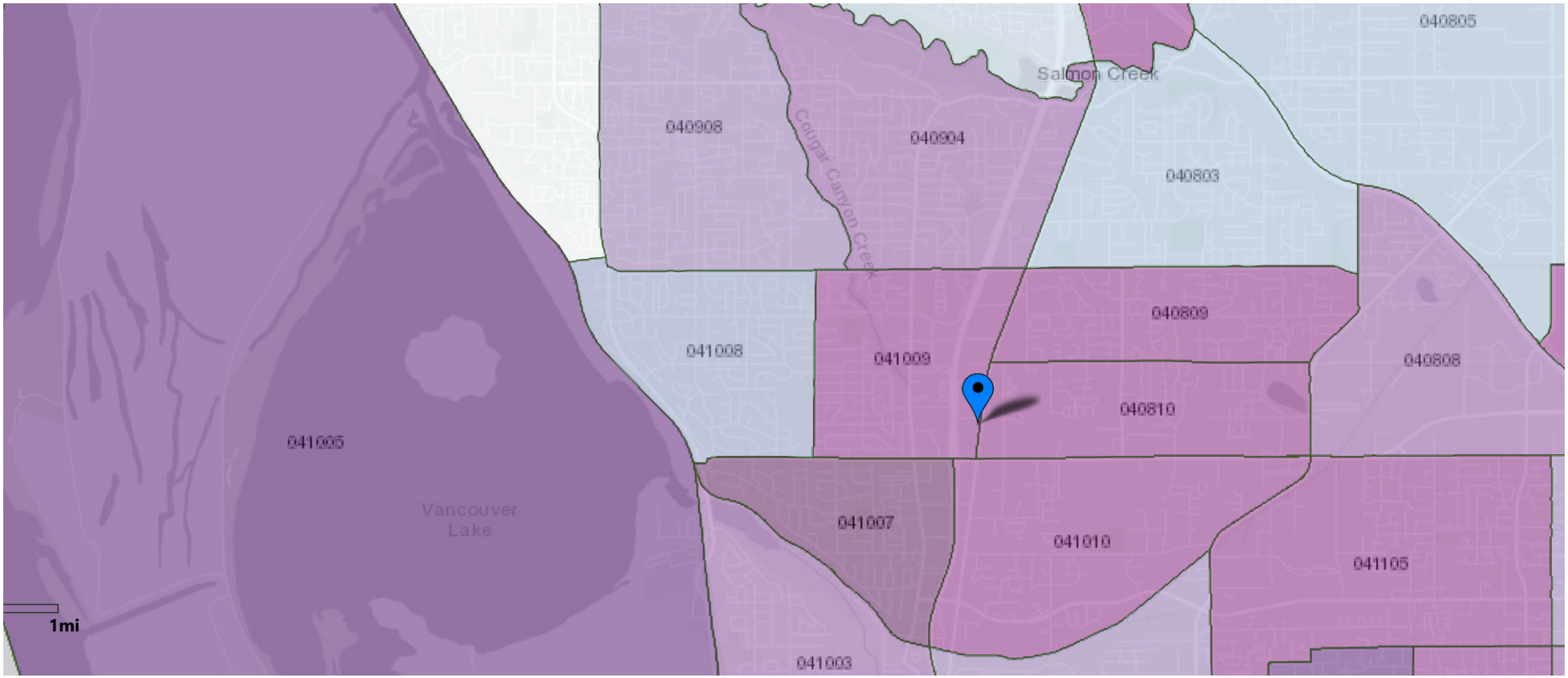
If you need this publication in an alternate format, please call the Toxics Cleanup Program at 360-407-7170. People with hearing loss can call 711 for Washington Relay Service. People with a speech disability can call 877-833-6341.

Washington State Department of Health

Selection: Environmental Health Disparities V 2.0 **Date: 07/24/2024 at 10:23 AM**

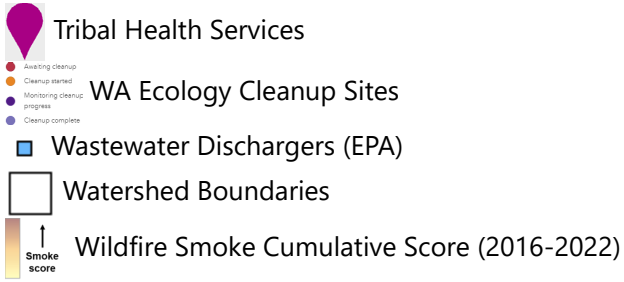
Environmental Exposures, Environmental Effects, Socioeconomic Factors, Sensitive Populations

Legend: (High) 10 9 8 7 6 5 4 3 2 1 **(Low)**



Legend

- Airport Runways
- Care Facilities - Adult Family Homes
- Care Facilities - Nursing Homes
- City Limits
- Climate Projections ~2050
- County Boundaries
- DCYF Licensed Childcare Centers
- Dry Cleaners (Current and Former)
- Electric Utilities - Investor
- Electric Utilities - Public
- Farmworkers Housing
- Former Orchard Lands
- Hazardous Waste Sites (EPA)
- Historical Redlining (HOLC)
- Hospitals
- Legislative Districts
- Mortgage Discrimination
- National Flood Hazard Layer
- Prisons
- Railroads


Tribal Health Services
Awaiting cleanup
Cleanup started
Monitoring cleanup progress
Cleanup complete
WA Ecology Cleanup Sites
Wastewater Dischargers (EPA)
Watershed Boundaries
Smoke score
Wildfire Smoke Cumulative Score (2016-2022)

National Flood Hazard Layer FIRMette

FEMA

122°40'3"W 45°41'5"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

122°39'25"W 45°40'40"N

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 7/24/2024 at 1:21 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Table C1 - Summary of Projected Climate (2036 to 2065)

Yesler Way Property (19-178)

Seattle, Washington

Climate Parameter	Value	WA EHD Map Rank
Change in Annual Cooling Degree Days	467	8
Change in Annual Heating Degree Days	-1,232	9
Annual Days Over 99th Percentile Historical Temperature	28	7
Change in Annual Precipitation	0.05211659	9

Notes:

Values provided by the Washington State Department of Health:

https://doh.wa.gov/data-and-statistical-reports/washington-tracking-network-wtn/climate-projections

A1 Soil Cleanup Levels: Worksheet for Soil Data Entry

1. Enter Site Information

Date:	02/22/24
Site Name:	Fox's Carwash
Sample Name:	B9-10

Enter Site Data in Non-shaded (white) Cells

2. Enter Soil Concentration Measured

Clear Soil Data

Chemical or Petroleum Fraction	Measured Soil Conc mg/kg	Composition Ratio %
AL_EC >5-6	6.6	1.0%
AL_EC >6-8	100	15.7%
AL_EC >8-10	130	20.4%
AL_EC >10-12	17.7	2.8%
AL_EC >12-16	37.6	5.9%
AL_EC >16-21	5.95	0.9%
AL_EC >21-34	5.95	0.9%
AR_EC >8-10	41.4	6.5%
AR_EC >10-12	250	39.2%
AR_EC >12-16	15.9	2.5%
AR_EC >16-21	19.7	3.1%
AR_EC >21-34	5.95	0.9%
Benzene	0.56	0.1%
Toluene	0.3	0.0%
Ethylbenzene	0.3	0.0%
Total Xylenes	0.3	0.0%
Naphthalene		0.0%
1-Methyl Naphthalene		0.0%
2-Methyl Naphthalene		0.0%
n-Hexane		0.0%
MTBE	0.3	0.0%
Ethylene Dibromide (EDB)		0.0%
1,2 Dichloroethane (EDC)		0.0%
Benzo(a)anthracene		0.0%
Benzo(b)fluoranthene		0.0%
Benzo(k)fluoranthene		0.0%
Benzo(a)pyrene		0.0%
Chrysene		0.0%
Dibenz(a,h)anthracene		0.0%
Indeno(1,2,3-cd)pyrene		0.0%
	638.51	**100%**

REMARK:
Enter site specific information here.....

3. Enter Site-Specific Hydrogeological Data (MTCA defaults are provided for unsaturated soil)

Reset Hydro Defaults

Total soil porosity (n):	0.43	Unitless
Volumetric water content (θ_w):	0.3	Unitless
Volumetric air content (θ_a):	0.13	Unitless (calculated) $\longrightarrow \theta_a = n - \theta_w$
Soil bulk density (ρ_b):	1.5	kg/L
Fraction Organic Carbon (f_{oc}):	0.001	Unitless
Dilution Factor (DF):	20	Unitless

4. Enter Target TPH Groundwater Concentation (µg/L)

Enter value here:	800	µg/L (*see worksheet B2_Groundwater Meth B*)
Basis:	Method A Potable Groundwater	
Remark:	Petroleum fractionated data (EPH/VPH) and individual compounds tested in groundwater generated a Method B potable drinking water cleanup level of 340 µg/L (see Worksheet B2.1A). This level is below the most restrictive default Method A value of 500 µg/L. As a result, the Method A default potable groundwater cleanup level of 500 µg/L is selected as the target groundwater concentration to develop a TPH concentration in soil that is protective of potable groundwater.	

Reset Target TPH GW Conc Information

A4 Soil Cleanup Levels: Summary of Results. Refer to WAC 173-340-720, 740, 745, 747

Date: 02/22/24
Site Name: Fox's Carwash
Sample Name: B9-10
Measured Soil TPH Concentration, mg/kg: 638.51

Summary of Calculation Results

Exposure Pathway	Method/Goal	Protective TPH Conc (mg/kg)	With Measured Soil Conc	
			HI or Risk	Pass or Fail
Soil Direct Contact Protection of Soil Incidental Ingestion and Dermal Contact: Human Health	**Method B: Unrestricted Land Use**			
	TPH Soil Cleanup Level (@ HI =1)	870	7.3E-01	Pass
	Cancer Risk (1)		3.1E-08	Pass
	Method C: Industrial Land Use			
	TPH Soil Cleanup Level (@ HI = 1)	17,000	3.8E-02	Pass
	Cancer Risk (1)		4.2E-09	Pass
Soil Leaching Protection of Groundwater Quality	**Soil Concentration Protective of Target TPH Groundwater Concentration**			
	Protective TPH Soil Concentration, mg/kg =	170	---	**Fail**
	Target TPH Groundwater Concentration (µg/L)			
	800 Method A Potable Groundwater			
Remark:	*Petroleum fractionated data (EPH/VPH) and individual compounds tested in groundwater generated a Method B potable drinking water cleanup level of 340 µg/L (see Worksheet B2.1A). This level is below the most restrictive default Method A value of 500 µg/L. As a result, the Method A default potable groundwater cleanup level of 500 µg/L is selected as the target groundwater concentration to develop a TPH concentration in soil that is protective of potable groundwater.*			

Notes:

(1) Known or suspected carcinogenic chemicals that contribute to unacceptable cancer risk within the petroleum mixture are evaluated separately and must meet compliance with soil cleanup standards both on an individual basis and and when accounting for cumulative risk from multiple chemicals and pathways at the site. *See Worksheets: A2.1B and A3.1B (Soil Direct Contact); B2.1B (Potable Water Ingestion).*

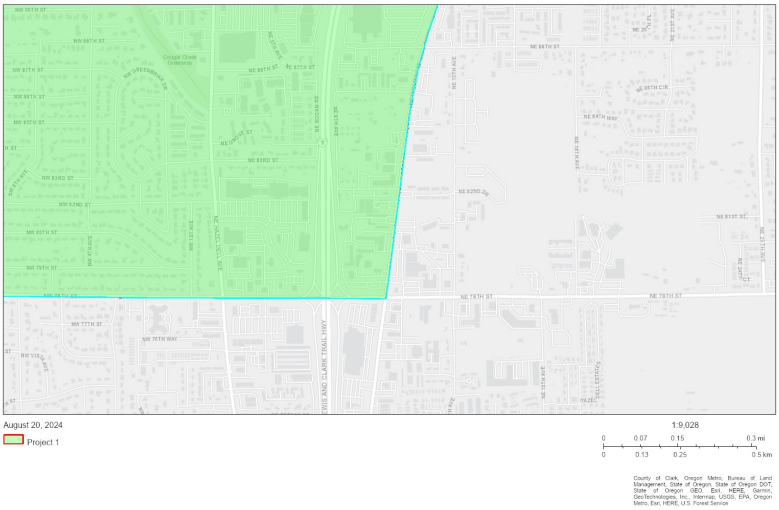
Terrestrial Ecological Pathway: Check to determine if a simplified or site-specific Terrestrial Ecological Evaluation may be required (*see* WAC 173-340-7490 through ~7494).

EJScreen Community Report

This report provides environmental and socioeconomic information for user-defined areas, and combines that data into environmental justice and supplemental indexes.

Hazel Dell, WA

Tract: 53011041009
Population: 3,770
Area in square miles: 0.94



LANGUAGES SPOKEN AT HOME

LANGUAGE	PERCENT
English	90%
Spanish	4%
German or other West Germanic	2%
Russian, Polish, or Other Slavic	1%
Other Indo-European	2%
Tagalog (including Filipino)	1%
Total Non-English	10%

COMMUNITY INFORMATION

- Low income: 28 percent
- People of color: 23 percent
- Less than high school education: 9 percent
- Limited English households: 1 percent
- Unemployment: 6 percent
- Persons with disabilities: 19 percent
- Male: 49 percent
- Female: 51 percent
- 77 years — Average life expectancy
- $35,423 — Per capita income
- Number of households: 1,791
- Owner occupied: 44 percent

BREAKDOWN BY RACE

- White: 77%
- Black: 3%
- American Indian: 0%
- Asian: 3%
- Hawaiian/Pacific Islander: 0%
- Other race: 0%
- Two or more races: 9%
- Hispanic: 8%

BREAKDOWN BY AGE

From Ages 1 to 4	5%
From Ages 1 to 18	15%
From Ages 18 and up	85%
From Ages 65 and up	20%

LIMITED ENGLISH SPEAKING BREAKDOWN

Speak Spanish	0%
Speak Other Indo-European Languages	0%
Speak Asian-Pacific Island Languages	100%
Speak Other Languages	0%

Notes: Numbers may not sum to totals due to rounding. Hispanic population can be of any race.
Source: U.S. Census Bureau, American Community Survey (ACS) 2018-2022. Life expectancy data comes from the Centers for Disease Control.

Report for Tract: 53011041009
Report produced August 20, 2024 using EJScreen Version 2.3

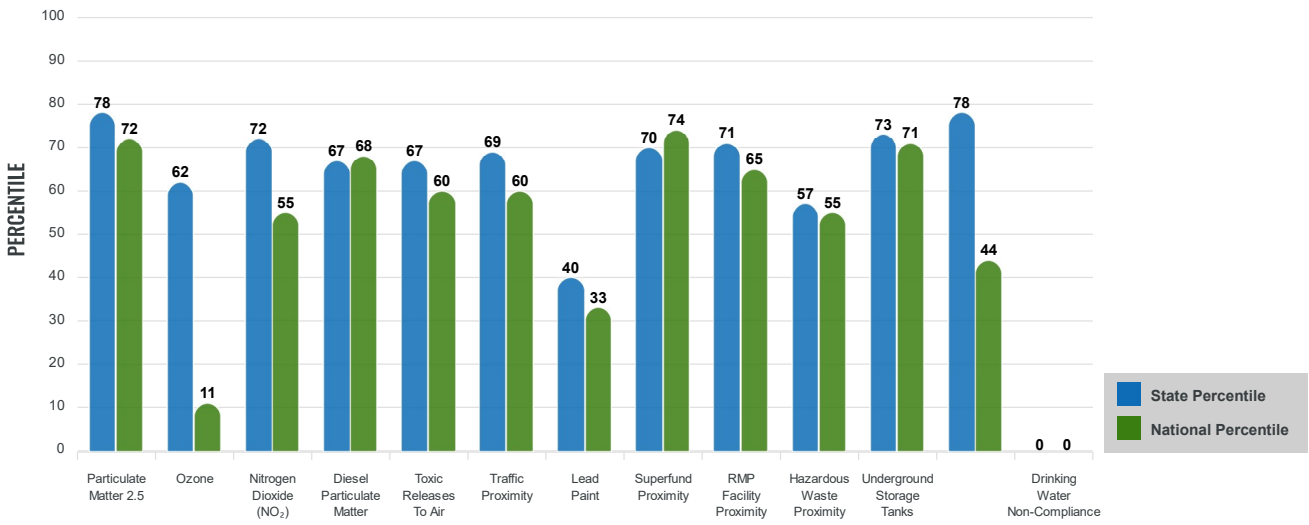
Environmental Justice & Supplemental Indexes

The environmental justice and supplemental indexes are a combination of environmental and socioeconomic information. There are thirteen EJ indexes and supplemental indexes in EJScreen reflecting the 13 environmental indicators. The indexes for a selected area are compared to those for all other locations in the state or nation. For more information and calculation details on the EJ and supplemental indexes, please visit the EJScreen website.

EJ INDEXES

The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.

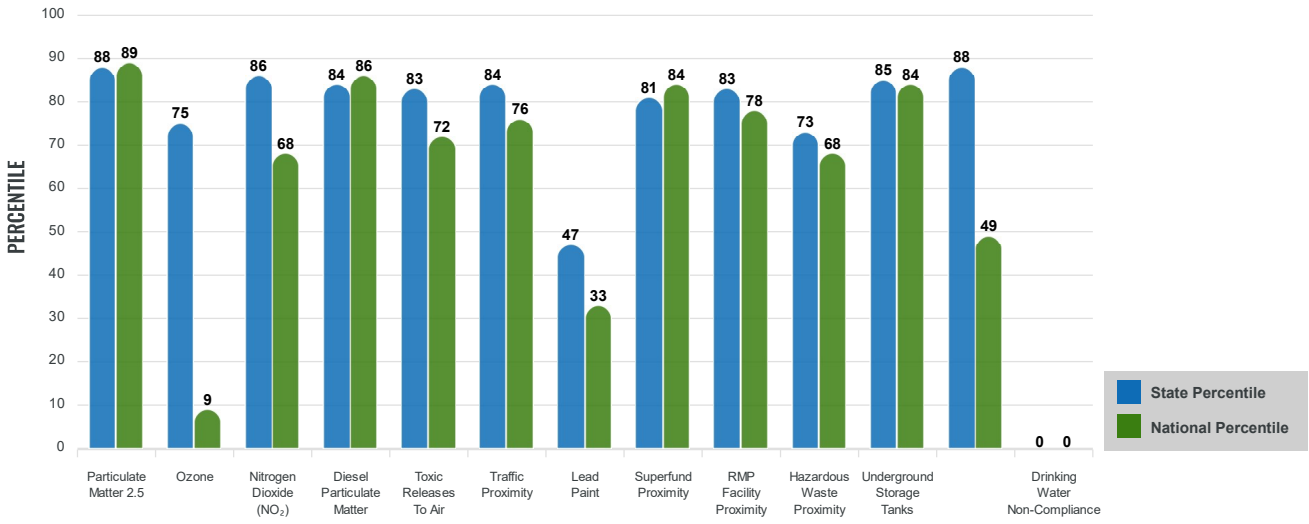
EJ INDEXES FOR THE SELECTED LOCATION



SUPPLEMENTAL INDEXES

The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on percent low income, percent persons with disabilities, percent less than high school education, percent limited English speaking, and percent low life expectancy with a single environmental indicator.

SUPPLEMENTAL INDEXES FOR THE SELECTED LOCATION



Report for Tract: 53011041009

Report produced August 20, 2024 using EJScreen Version 2.3

EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA
ENVIRONMENTAL BURDEN INDICATORS					
Particulate Matter 2.5 ($\mu g/m^3$)	12	9.51	83	8.45	93
Ozone (ppb)	52.3	51.8	58	61.8	8
Nitrogen Dioxide (NO_2) (ppbv)	8.3	6.3	80	7.8	57
Diesel Particulate Matter ($\mu g/m^3$)	0.322	0.256	68	0.191	86
Toxic Releases to Air (toxicity-weighted concentration)	1,200	1,800	63	4,600	62
Traffic Proximity (daily traffic count/distance to road)	1,700,000	1,200,000	73	1,700,000	68
Lead Paint (% Pre-1960 Housing)	0.055	0.23	32	0.3	27
Superfund Proximity (site count/km distance)	0.37	0.53	68	0.39	79
RMP Facility Proximity (facility count/km distance)	0.77	0.51	77	0.57	74
Hazardous Waste Proximity (facility count/km distance)	1.8	2.9	53	3.5	56
Underground Storage Tanks (count/km^2)	12	6.1	84	3.6	91
Wastewater Discharge (toxicity-weighted concentration/m distance)	15	300	86	700000	39
Drinking Water Non-Compliance (points)	0	1	0	2.2	0
SOCIOECONOMIC INDICATORS					
Demographic Index USA	1.02	N/A	N/A	1.34	43
Supplemental Demographic Index USA	1.75	N/A	N/A	1.64	62
Demographic Index State	1.37	1.47	52	N/A	N/A
Supplemental Demographic Index State	1.72	1.37	74	N/A	N/A
People of Color	23%	33%	38	40%	41
Low Income	28%	23%	67	30%	52
Unemployment Rate	6%	5%	68	6%	66
Limited English Speaking Households	1%	4%	51	5%	57
Less Than High School Education	9%	8%	66	11%	54
Under Age 5	5%	5%	50	5%	51
Over Age 64	20%	17%	66	18%	63

*Diesel particulate matter index is from the EPA's Air Toxics Data Update, which is the Agency's ongoing, comprehensive evaluation of air toxics in the United States. This effort aims to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that the air toxics data presented here provide broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. More information on the Air Toxics Data Update can be found at: https://www.epa.gov/haps/air-toxics-data-update.

Sites reporting to EPA within defined area:

Superfund	0
Hazardous Waste, Treatment, Storage, and Disposal Facilities	0
Water Dischargers	23
Air Pollution	0
Brownfields	0
Toxic Release Inventory	0

Other community features within defined area:

Schools	1
Hospitals	0
Places of Worship	1

Other environmental data:

Air Non-attainment	No
Impaired Waters	Yes

Selected location contains American Indian Reservation Lands*	No
Selected location contains a "Justice40 (CEJST)" disadvantaged community	No
Selected location contains an EPA IRA disadvantaged community	Yes

Report for Tract: 53011041009

Report produced August 20, 2024 using EJScreen Version 2.3

EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	21%	18%	82	20%	65
Heart Disease	6.5	4.8	88	5.8	67
Asthma	11.3	10.9	65	10.3	79
Cancer	8.7	6.5	92	6.4	92
Persons with Disabilities	19.2%	13.4%	84	13.7%	82

CLIMATE INDICATORS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Flood Risk	8%	11%	61	12%	57
Wildfire Risk	0%	12%	0	14%	0

CRITICAL SERVICE GAPS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Broadband Internet	6%	8%	50	13%	35
Lack of Health Insurance	5%	6%	51	9%	41
Housing Burden	No	N/A	N/A	N/A	N/A
Transportation Access Burden	No	N/A	N/A	N/A	N/A
Food Desert	Yes	N/A	N/A	N/A	N/A

Report for Tract: 53011041009

Report produced August 20, 2024 using EJScreen Version 2.3

CLARK COUNTY SHERIFF'S OFFICE

707 W 13TH ST
VANCOUVER, WA 98666
(564) 397-2211

INCIDENT REPORT

CASE NUMBER	SUPPLEMENT NUMBER
22008738	
CASE TYPE	CAD EVENT NUMBER
WARRANT	22348322
REPORTING OFFICER	REPORT DATE
5030 - WILLIAMS, JERMAINE	09/14/2022

INCIDENT

LOCATION				OCCURRED	DATE	TIME	DAY
8250 NE HIGHWAY 99 VANCOUVER, WA				ON OR FROM	09/14/2022	20:57	WED
PREMISE NAME			JURISDICTION	TO			
			CCSO				
PRECINCT	BEAT		SQUAD	REPORTED	09/14/2022	20:57	WED
WEST	73		WGA				

NATURE OF INCIDENT

☐ ALCOHOL RELATED ☐ SENIOR CITIZEN ☐ HATE / BIAS ☐ ARSON ☐ CHILD ABUSE
☐ GANG RELATED ☐ OFFICER ASSAULT ☐ DRUG RELATED ☐ DOMESTIC VIOLENCE ☐ JUVENILE

RELATED REPORT NUMBERS

RELATED CASE NUMBERS

SYNOPSIS

At the above mentioned time and date, I was dispatched to a possible theft in progress at the location of 8250 NE Highway 99 with a male subject who was later identified to have a couple of outstanding warrants. After confirming, the male subject was booked on those warrants and transported to Clark County Jail for booking.

The case is closed.

ADDITIONAL INFORMATION

☐ AED ☐ NALOXONE

☐ ADDITIONAL IN EVIDENCE.COM

USE OF FORCE	CASINO	BWC
N		
	IN CAR CAMERA	

STATUS

CASE STATUS	CASE STATUS DATE	DISPOSITION	DISPOSITION DATE	APPROVAL	APPROVAL DATE
CLOSED	09/14/2022	ARREST	09/14/2022	4852 - CAMP, JAYSON	09/15/2022

OFFENSES

ENTRY NO	VIOLATION/STATUTE	OFFENSE DESCRIPTION
1	FFJ	FUGITIVE FROM JUSTICE

ATTEMPTED	LEVEL	DEGREE	COUNTS	NCIC CODE	BCS CODE	DISPOSITION	DISPOSITION DATE
N		98	1	5099			

AGENCY CLASSIFICATION	LOCATION OF OFFENSE
WARRANT	

GOC	MODIFIER 1	MODIFIER 2	MODIFIER 3

COURT	COURT DATE	JUDGE

COMMENT

SUSPECTS

ENTRY NO	INVOLVEMENT	NAME: LAST, FIRST, MIDDLE
1	BOOKED	THOMAS JR, BRETT MARR

HOME ADDRESS	MAILING ADDRESS
TRANSIENT	

EMPLOYER	EMPLOYER ADDRESS	OCCUPATION

HOME PHONE	CELL PHONE	OTHER PHONE	EMPLOYER PHONE
(503) 660-7591			

DOB	AGE	SEX	RACE	JUV	ETH	HEIGHT	WEIGHT	HAIR	EYES	POB	RESIDENCY	CITIZEN	GANG IDENTIFICATION
01/09/1981	41	M	W	N	N	509	150	BRO	BLU	WA	R	US	

DL NUMBER	DL ST	SSN	FBI ID	STATE ID	LOCAL	ID1	ID2
[redacted]	WA	[redacted]	732820MB7	WA2882069			

COMMENT

ARREST - 1 BOOKED THOMAS, BRETT MARR

ARREST NUMBER	ARREST DATE	OFFICER	ARREST LOCATION
	09/14/2022 00:00	5030/5030-WILLIAMS, JERMAINE	8250 NE HIGHWAY 99 VANCOUVER, W

CITATION NUMBERS

WARRANT NUMBERS

COMMENT

CHARGES

ENTRY NO	VIOLATION CODE	VIOLATION DESCRIPTION
1	FFJ	FUGITIVE FROM JUSTICE

ATTEMPTED	LEVEL	DEGREE	COUNT	NCIC CODE	BCS CODE	AGENCY CLASSIFICATION
N		98	1	5099		WARRANT

GOC	MODIFIER 1	MODIFIER 2	MODIFIER 3

COURT	COURT DATE	JUDGE	COURT DISPOSITION

WARRANT NO	CITATION NO	REQUIRED BOND TYPE	BOND AMT	REQUIRED FINE
21CR45969				

COMMENT

ENTRY NO	VIOLATION CODE	VIOLATION DESCRIPTION
2	DCWT	DISTRICT COURT WARRANT

ATTEMPTED	LEVEL	DEGREE	COUNT	NCIC CODE	BCS CODE	AGENCY CLASSIFICATION
N		98	1	5099		WARRANT

GOC	MODIFIER 1	MODIFIER 2	MODIFIER 3

COURT	COURT DATE	JUDGE	COURT DISPOSITION

WARRANT NO	CITATION NO	REQUIRED BOND TYPE	BOND AMT	REQUIRED FINE
2A0413472	2A0413472		$500.00	

COMMENT

LAND VEHICLES

ENTRY NO	INVOLVEMENT	VEHICLE TYPE	YEAR	MAKE	MODEL	STYLE	COLOR	COLOR	EVIDENCE
1	SUSPECT	AUTOMOBILE	1995	FORD	ESC	4D			N

LICENSE NUMBER	STATE	TYPE	YEAR	VIN	CUSTODY STATUS
943CQY	OR		2022	3FASP15J4SR149290	

COMMENT

ADDITIONAL INFORMATION

☐ DRIVABLE	☐ MISSING INTERIOR PARTS
☐ KEY IN VEH	☐ MISSING EXTERIOR PARTS
STOLEN - PLATES ON	RECOVERED - PLATES ON

MENTIONED:

Brett Thomas-Mentioned

DOCUMENTS:

N/A

DETAILS:

On 09/14/2022 at approximately 2057 hours, I was in a marked patrol vehicle when I was dispatched to a possible theft in progress at the U-haul store location of 8250 NE Highway 99 in Clark County, Washington. The reporting party stated there was an unidentified vehicle parked next to one of the U-haul trucks in the middle of the parking lot. There was a hose running from a U-Haul truck towards the vehicle the male was occupying.

Upon arrival I noticed a male with a gas can in his possession. I asked for the reason for why he was at this location, he mentioned to me he was searching for a WIFI signal for his WIFI only Boost phone. The vehicle he was in appeared to have a lot of tools used for vehicle prowling. As I continued to talk to the male, I asked him to identify himself. He stated he was Brett Thomas. Brett did not have any identification on his persons.

On the top of the vehicle was a gas can full of gas. Brett also had the scent of gasoline on his clothes. Upon further investigation, there was a total of 8 U-Haul trucks missing its gas cap which would suggest siphoning of gas from the U-Haul trucks was taking place.

I ran his name through dispatch and the return came back multiple warrants. I asked dispatch to confirm, which was done a few moments later. I verified the physical description of Brett to a prior arrest in the MNI section of RMS. It was a positive match. I now had probable cause to arrest Brett on active warrants.

I placed Brett under arrest on the charge of Fugitive from justice and separately, a District Court warrant as well from Vancouver Police Department. Brett was taken to Clark County Jail on the two warrants.

CONCLUSION:

Based on the arrest, this case is closed.

I certify or declare under penalty of perjury under the laws of the State of Washington that the foregoing is true and correct. I intend my printed name and PSN on this document to be my signature. This document was signed in Clark County, Washington.
Williams 5030

CLARK COUNTY SHERIFF'S OFFICE

707 W 13TH ST
VANCOUVER, WA 98666
(564) 397-2211

INCIDENT REPORT

CASE NUMBER	SUPPLEMENT NUMBER
24001564	
CASE TYPE	CAD EVENT NUMBER
VEHICLE PROWL	24069075
REPORTING OFFICER	REPORT DATE
4912 - HULSEY, BEN	02/24/2024

INCIDENT

LOCATION				OCCURRED	DATE	TIME	DAY
8250 NE HIGHWAY 99 VANCOUVER, WA 98665				ON OR FROM	02/24/2024	03:08	SAT
PREMISE NAME			JURISDICTION	TO			
			CCSO				
PRECINCT	BEAT		SQUAD	REPORTED	02/24/2024	03:08	SAT
	73						

NATURE OF INCIDENT

☐ ALCOHOL RELATED ☐ SENIOR CITIZEN ☐ HATE / BIAS ☐ ARSON ☐ CHILD ABUSE
☐ GANG RELATED ☐ OFFICER ASSAULT ☐ DRUG RELATED ☐ DOMESTIC VIOLENCE ☐ JUVENILE

RELATED REPORT NUMBERS

RELATED CASE NUMBERS

SYNOPSIS

On 2/24/24, I responded to an alarm call at U-Haul at 8250 NE Highway 99. Deputies located a male walking on the south side of the building. He identified himself as Brett Thomas. Brett had a warrant for his arrest and was detained. While being frisked, a clear plastic tube was located on his person. A gas can was located under an open case cap on a U-Haul truck in the parking lot. After further investigation, 14 other U-Haul trucks had open gas caps. Brett was arrested for Vehicle Prowl 2, Attempted Veh. Prowl 2 x 14, and Theft 3. He was booked into Clark County Jail.

Case Status: Closed by arrest.

ADDITIONAL INFORMATION

☐ AED ☐ NALOXONE

☐ ADDITIONAL IN EVIDENCE.COM

USE OF FORCE	CASINO	BWC
N		Y
	IN CAR CAMERA	
	N	

STATUS

CASE STATUS	CASE STATUS DATE	DISPOSITION	DISPOSITION DATE	APPROVAL	APPROVAL DATE
CLOSED	02/24/2024	ARREST	02/24/2024	4488/4488 - STEVENS, JARED	02/25/2024

OFFENSES

ENTRY NO	VIOLATION/STATUTE	OFFENSE DESCRIPTION
1	9A.52.100.1	VEHICLE PROWLING II (VEHPROWL)

ATTEMPTED	LEVEL	DEGREE	COUNTS	NCIC CODE	BCS CODE	DISPOSITION	DISPOSITION DATE
N	GM	98	1	2305			

AGENCY CLASSIFICATION	LOCATION OF OFFENSE
LARCENY-FROM AUTO	

GOC	MODIFIER 1	MODIFIER 2	MODIFIER 3

COURT	COURT DATE	JUDGE

COMMENT

ENTRY NO	VIOLATION/STATUTE	OFFENSE DESCRIPTION
2	9A.52.100.1	VEHICLE PROWLING II (VEHPROWL)

ATTEMPTED	LEVEL	DEGREE	COUNTS	NCIC CODE	BCS CODE	DISPOSITION	DISPOSITION DATE
Y	GM	98	14	2305			

AGENCY CLASSIFICATION	LOCATION OF OFFENSE
LARCENY-FROM AUTO	

GOC	MODIFIER 1	MODIFIER 2	MODIFIER 3

COURT	COURT DATE	JUDGE

COMMENT

ENTRY NO	VIOLATION/STATUTE	OFFENSE DESCRIPTION
3	9A.56.050-FROM VEHICL	THEFT III - FROM VEHICLE

ATTEMPTED	LEVEL	DEGREE	COUNTS	NCIC CODE	BCS CODE	DISPOSITION	DISPOSITION DATE
N	GM	98	1	2305			

AGENCY CLASSIFICATION	LOCATION OF OFFENSE
LARCENY-FROM AUTO	

GOC	MODIFIER 1	MODIFIER 2	MODIFIER 3

COURT	COURT DATE	JUDGE

COMMENT

VICTIMS

ENTRY NO	INVOLVEMENT	NAME: LAST, FIRST, MIDDLE
2	VICTIM	U-HAUL

HOME ADDRESS	MAILING ADDRESS
8250 NE HIGHWAY 99 VANCOUVER WA 98685	

EMPLOYER	EMPLOYER ADDRESS	OCCUPATION

HOME PHONE	CELL PHONE	OTHER PHONE	EMPLOYER PHONE
(360) 574-1234		(360) 574-1234	

DOB	AGE	SEX	RACE	JUV	ETH	HEIGHT	WEIGHT	HAIR	EYES	POB	RESIDENCY	CITIZEN	GANG IDENTIFICATION
		U	U	N	U						R		

DL NUMBER	DL ST	SSN	FBI ID	STATE ID	LOCAL	ID1	ID2

COMMENT

SUSPECTS

ENTRY NO	INVOLVEMENT	NAME: LAST, FIRST, MIDDLE
1	BOOKED	THOMAS JR, BRETT MARR

HOME ADDRESS	MAILING ADDRESS
3737 N WILLAMETTE BLVD PORTLAND OR 97217	

EMPLOYER	EMPLOYER ADDRESS	OCCUPATION

HOME PHONE	CELL PHONE	OTHER PHONE	EMPLOYER PHONE

DOB	AGE	SEX	RACE	JUV	ETH	HEIGHT	WEIGHT	HAIR	EYES	POB	RESIDENCY	CITIZEN	GANG IDENTIFICATION
01/09/1981	43	M	W	N	N	510	150	BRO	BLU		N		

DL NUMBER	DL ST	SSN	FBI ID	STATE ID	LOCAL	ID1	ID2
[redacted]	WA						

COMMENT

ARREST - 1 BOOKED THOMAS JR, BRETT MARR

ARREST NUMBER	ARREST DATE	OFFICER	ARREST LOCATION
	02/24/2024 05:25	4912/4912-HULSEY, BEN	8250 NE HIGHWAY 99 VANCOUVER, W

CITATION NUMBERS

WARRANT NUMBERS

COMMENT

CHARGES

ENTRY NO	VIOLATION CODE	VIOLATION DESCRIPTION
1	9A.52.100.1	VEHICLE PROWLING II (VEHPROWL)

ATTEMPTED	LEVEL	DEGREE	COUNT	NCIC CODE	BCS CODE	AGENCY CLASSIFICATION
N	GM	98	1	2305		LARCENY-FROM AUTO

GOC	MODIFIER 1	MODIFIER 2	MODIFIER 3

COURT	COURT DATE	JUDGE	COURT DISPOSITION

WARRANT NO	CITATION NO	REQUIRED BOND TYPE	BOND AMT	REQUIRED FINE
	4A0123934			

COMMENT:

ENTRY NO 2 | VIOLATION CODE: 9A.52.100.1 | VIOLATION DESCRIPTION: VEHICLE PROWLING II (VEHPROWL)

ATTEMPTED	LEVEL	DEGREE	COUNT	NCIC CODE	BCS CODE	AGENCY CLASSIFICATION
Y	GM	98	14	2305		LARCENY-FROM AUTO

GOC	MODIFIER 1	MODIFIER 2	MODIFIER 3

COURT	COURT DATE	JUDGE	COURT DISPOSITION

WARRANT NO	CITATION NO	REQUIRED BOND TYPE	BOND AMT	REQUIRED FINE
	4A0123934			

COMMENT:

ENTRY NO 3 | VIOLATION CODE: 9A.56.050-FROM VEHI | VIOLATION DESCRIPTION: THEFT III - FROM VEHICLE

ATTEMPTED	LEVEL	DEGREE	COUNT	NCIC CODE	BCS CODE	AGENCY CLASSIFICATION
N	GM	98	1	2305		LARCENY-FROM AUTO

GOC	MODIFIER 1	MODIFIER 2	MODIFIER 3

COURT	COURT DATE	JUDGE	COURT DISPOSITION

WARRANT NO	CITATION NO	REQUIRED BOND TYPE	BOND AMT	REQUIRED FINE
	4A0123934			

COMMENT:

OTHERS

ENTRY NO 3 | INVOLVEMENT: MENTIONED | NAME: LAST, FIRST, MIDDLE: ANDERSON, KATHY L

HOME ADDRESS	MAILING ADDRESS

EMPLOYER	EMPLOYER ADDRESS	OCCUPATION

HOME PHONE	CELL PHONE	OTHER PHONE	EMPLOYER PHONE

DOB	AGE	SEX	RACE	JUV	ETH	HEIGHT	WEIGHT	HAIR	EYES	POB	RESIDENCY	CITIZEN	GANG IDENTIFICATION
06/01/1965	58	F	W	N	N			GRY	XXX		N		

DL NUMBER	DL ST	SSN	FBI ID	STATE ID	LOCAL	ID1	ID2

COMMENT:

ADDITIONAL INFORMATION

[X] TRANSIENT

PROPERTY

ENTRY NO 1 | INVOLVEMENT: STOLEN | TYPE: FUEL | MAKE: | MODEL:

SERIAL NUMBER	QUANTITY	COLOR	COLOR	OAN	REF NO	EVIDENCE
	1					N

DESCRIPTION	CUSTODY STATUS
GASOLINE UNDER 5 GALLONS	

VALUE STOLEN	DATE STOLEN	JURISDICTION STOLEN
$1.00	02/24/2024	CCSO

COMMENT:

NARRATIVE

MENTIONED:

Thomas, Brett - Booked

U-Haul - Victim/ Business

Anderson, Kathy - Mentioned

DOCUMENTS:

Photos uploaded to Evidence.com

DETAILS:

******A body worn camera (BWC) was used to document this incident. Any statements detailed in this report may be summarized and/ or paraphrased for clarity and readability. The statements may not follow the exact chronological order of the interviews as they progressed and will not contain each and every topic of discussion mentioned during the course of the statements. For specific details on any statements, action, or observations, please refer to the body worn camera footage******

\kerning2 On Saturday, February 24, 2024, at approximately 0309 hours, I, Deputy Ben Hulsey, responded to an alarm at U-Haul located at 8250 NE Highway 99, Vancouver, Clark County, Washington. Call notes indicated a male was seen on camera by building B looking out a door. It was also stated he could be someone with 24-hour access.

I arrived on scene and located a white male wearing black jeans, black hoodie and a black beanie walking on the south side of the building towards NE Highway 99. Deputy Gottsch and Deputy James contacted the male while I searched around U-Haul for any signs of forced entry into a building. I contacted another male and female exiting one of the buildings, but they were not involved and had 24-hour access with their key card. They also did not see anyone walking around U-Haul.

The male self-identified as Brett Thomas and was discovered to have a warrant for his arrest. He was detained for his warrant. Deputy James and Deputy Gottsch told me they smelled gasoline emitting from Brett' s person as he was detained. They performed a frisk of Brett for weapons and located a long clear tube hidden in the waistband of his jeans. The tubing was removed and set aside. No weapons were located.

Deputy James and I located a red plastic gas can next to a U-Haul truck parked in the parking lot. The gas can was positioned underneath the gas cap, and the gas cap was dangling on the side of the truck. Upon further investigation, we discovered 14 other U-Haul trucks with open gas caps. Photos were taken of the gas can under the open gas cap and several of the open gas caps. The photos were uploaded to Evidence.com

Brett was read his constitutional rights at approximately 0334 hours and agreed to speak with me. He admitted he was syphoning gas from the U-Haul truck where we located the gas can. He told me his friend needed gas for her RV and he was helping her out. I asked about all the other trucks with the gas caps undone and he told me he didn' t get into the other trucks. He said they were already open and someone else must have opened them. The RV mentioned by Brett was parked directly across the street from the parking lot where all the U-Haul trucks were located.

We attempted to contact any occupants of the RV but there was no answer. I told Brett he was under arrest for vehicle prowl. He was removed from the patrol car and searched incident to arrest. Brett yelled for his friend Kathy to come out from the RV. She eventually vacated the RV and told Deputy James the RV belongs to Brett. She was unsure why Brett was stealing gas because she had funds to buy gasoline. Kathy didn' t know she was in Vancouver, and said she had been sleeping inside of the RV.

Based on Brett entering the closed gas cap of multiple U-Haul trucks, and successfully removing gas from at least one of the trucks, I developed probable cause to arrest Brett Thomas for one count of RCW 9A.52.100 Vehicle prowling in the second degree as well as fourteen attempted counts and one count of RCW 9A.56.050 Theft in the Third Degree. He was transported to Clark County Jail and booked on the mentioned charges.

Depuy Gottsch completed the prebook, authored a citation and transported Brett to jail. I left the gas can with gas near the west entrance of U-Haul. I made multiple attempts to contact a responsible person for the business, but there was no answer. I left a voicemail with the details of my phone call.

\kerning0

CONCLUSION:

Case Status: Closed by arrest.

I certify or declare under penalty of perjury under the laws of the State of Washington that the foregoing is true and correct. I intend my printed name and PSN on this document to be my signature. This document was signed in Clark County, Washington.

CLARK COUNTY SHERIFF'S OFFICE

707 W 13TH ST
VANCOUVER, WA 98666
(564) 397-2211

INCIDENT REPORT

CASE NUMBER	SUPPLEMENT NUMBER
24900172	
CASE TYPE	CAD EVENT NUMBER
MALMISCH	
REPORTING OFFICER	REPORT DATE
4791/4791 - MAREK, GREG	02/06/2024

INCIDENT

LOCATION				OCCURRED	DATE	TIME	DAY
8250 NE HIGHWAY 99 VANCOUVER, WA 98665				ON OR FROM	02/06/2024	12:00	TUE
PREMISE NAME			JURISDICTION	TO	02/06/2024	12:30	TUE
			CCSO				
PRECINCT	BEAT		SQUAD	REPORTED	02/06/2024	13:15	TUE
WEST	72						

NATURE OF INCIDENT

☐ ALCOHOL RELATED ☐ SENIOR CITIZEN ☐ HATE / BIAS ☐ ARSON ☐ CHILD ABUSE
☐ GANG RELATED ☐ OFFICER ASSAULT ☐ DRUG RELATED ☐ DOMESTIC VIOLENCE ☐ JUVENILE

RELATED REPORT NUMBERS

RELATED CASE NUMBERS

SYNOPSIS

**********REPORT IMPORTED INTO EIS FROM LEXIS NEXIS DESK OFFICER REPORTING SYSTEM (DORS)**********

ADDITIONAL INFORMATION

☐ AED ☐ NALOXONE

☐ ADDITIONAL IN EVIDENCE.COM

USE OF FORCE	CASINO	BWC
N		N
	IN CAR CAMERA	
	N	

STATUS

CASE STATUS	CASE STATUS DATE	DISPOSITION	DISPOSITION DATE	APPROVAL	APPROVAL DATE
CLOSED	02/07/2024	SUSPEND	02/06/2024	4756 - AGAR, GREGORY	02/07/2024

INCIDENT REPORT	CLARK COUNTY SHERIFF'S OFFICE	CASE NUMBER 24900172

VICTIMS

ENTRY NO	INVOLVEMENT	NAME: LAST, FIRST, MIDDLE
1	VICTIM	CRUZ, MATT

HOME ADDRESS	MAILING ADDRESS
3419 NW 116TH WAY WAY VANCOUVER WA 98685	

EMPLOYER	EMPLOYER ADDRESS	OCCUPATION

HOME PHONE	CELL PHONE	OTHER PHONE	EMPLOYER PHONE
(360) 607-9056			

DOB	AGE	SEX	RACE	JUV	ETH	HEIGHT	WEIGHT	HAIR	EYES	POB	RESIDENCY	CITIZEN	GANG IDENTIFICATION
03/17/1994		M	P	N	N						R		

DL NUMBER	DL ST	SSN	FBI ID	STATE ID	LOCAL	ID1	ID2
[redacted]	WA						

COMMENT
EMAIL ADDRESS: MATTHEW_CRUZ@UHAUL.COM

PROPERTY

ENTRY NO	INVOLVEMENT	TYPE	MAKE	MODEL
1	DAMAGED	FUEL		

SERIAL NUMBER	QUANTITY	COLOR	COLOR	OAN	REF NO	EVIDENCE
					1	N

DESCRIPTION	CUSTODY STATUS
FUEL DUMPED DOWN THE DRAIN	

VALUE STOLEN	DATE STOLEN	JURISDICTION STOLEN
$15.00	02/07/2024	CCSO

COMMENT

NARRATIVE

CUSTOMER GOT GASOLINE OUT OF THEIR STORAGE UNIT HERE AND POURED GASOLINE DOWN THE DRAIN IN THE RESTROOM WE HAVE IN THE FACILITY. FORMER FIREFIGHTER INFORMED US OF THIS HAPPENING AND SAID THAT THAT'S ONE OF THE WORST THINGS YOU CAN DO TO THE FACILITY AND IS VERY HARMFUL FOR ANYONE HAVING TO BREATH THE VAPORS IN THE BATHROOM NOW. PERSON WHO DUMPED THE GASOLINE INTO THE DRAIN WAS CUSTOMER JAENA STALLINGS AND KEITH MONAHAN. JAENA'S PHONE NUMBER IS LISTED AS (360) 721-7210 AND HER EMAIL IS REJEANA49@GMAIL.COM.