Seattle City Light

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December 13, 2024

Ms. Tena Seeds, PE
Northwest Region Toxics Cleanup
Program Washington State
Department of Ecology PO Box
330316
Shoreline, Washington 98133

Dear Ms. Seeds,

In response to the Washington State Department of Ecology's (Ecology's) Preliminary Determination of Liability for Release of Hazardous Substances at the American Linen Supply Co Dexter Ave Site (American Linen Site) dated May 16, 2024 (potentially liable party [PLP] Letter; Ecology 2024a), Seattle City Light (SCL) requested our consultant SoundEarth Strategies (SoundEarth) to investigate SCL's Aloha Shops property located at 800 Aloha Street in Seattle, Washington (the Property) and the hydrocarbon contamination identified there, which Ecology suggests may have come to be commingled with chlorinated volatile organic compounds (CVOCs) originating from the nearby American Linen Site.

Based on SoundEarth's attached assessment, the petroleum hydrocarbon plume at the Property does not commingle with the American Linen Site CVOC plume in the shallow water-bearing zone; the shallow zone benzene plume does not appear to be vertically migrating to the Intermediate A zone; groundwater flow in the deep-water bearing zone does not support migration from the Property to the current location of the deep benzene plume; and there are closer, more likely sources of petroleum impacts to the Intermediate B and deep water-bearing zones east of the Property. Based on this information, we find that a remedial investigation and cleanup under the existing Agreed Order with the American Linen Site PLPs is not an appropriate, effective, or efficient approach given the chemical and spatial differences of the plumes.

SCL is amenable to an independent, focused remedial investigation and cleanup action for the petroleum hydrocarbon impacts originating from the Property or a collaborative cleanup action with the Block 79 East Site. The Block 79 East Site is already proceeding with a remedial investigation under an existing Agreed Order to delineate the extent of petroleum hydrocarbon impacts in the shallow and intermediate water-bearing zones. We believe the results of the Block 79 remedial investigation will be informative for future decisions regarding further remedial investigations or cleanup actions at the Property.

SCL and SoundEarth appreciate the opportunity to provide a response to Ecology's PLP Letter regarding SCL's potential liabilities associated with the American Linen Site. Please let us know if we can provide any additional information.

Sincerely,

Jason Hamilton (Dec 11, 2024 16:11 PST)

Jason Hamilton
Environmental Management & Compliance Manager
Seattle City Light

Enclosure: Sound Earth Strategies' Assessment of Ecology's Preliminary Determination of Liability for Release of Hazardous Substances at the American Linen Supply Co Dexter Ave Site (December 2024)

cc: Tanner Bushnell – Ecology (Tanner.Bushnell@ecy.wa.gov)
Dhroov Shivjiani – Ecology (Dhroov.Shivjiani@ecy.wa.gov)

SoundEarth Strategies, Inc.
1011 SW Klickitat Way, Suite 212
Seattle, Washington 98134

December 12, 2024

Mr. Jason Hamilton
Seattle City Light
PO Box 30423
Seattle, Washington 98124

SUBJECT: RESPONSE TO PRELIMINARY DETERMINATION OF LIABILITY FOR RELEASE OF HAZARDOUS SUBSTANCES AT THE AMERICAN LINEN SUPPLY CO DEXTER AVE SITE
Seattle Roy Aloha Shops Property
800 Aloha Street, Seattle, Washington
Ecology Facility/Site ID: 95811428

Dear Mr. Hamilton:

On behalf of Seattle City Light (SCL), SoundEarth Strategies, Inc. (SoundEarth) has prepared this letter report to provide information in response to the Washington State Department of Ecology's (Ecology's) Preliminary Determination of Liability for Release of Hazardous Substances at the American Linen Supply Co Dexter Ave Site (American Linen Site) dated May 16, 2024 (potentially liable party [PLP] Letter; Ecology 2024a). In the PLP Letter, Ecology proposes to find SCL liable for a release of benzene originating from SCL's Seattle Roy Aloha Shops property located at 800 Aloha Street in Seattle, Washington (the Property; Figure 1), which Ecology suggests may have come to be commingled with chlorinated volatile organic compounds (CVOCs) originating from the nearby American Linen Site. SoundEarth disagrees with this suggestion and is of the opinion that SCL should not be included as a PLP for the American Linen Site for the reasons discussed in this letter report.

Ecology's proposed finding is based primarily on the historical groundwater data presented in the Agency Review Draft Remedial Investigation Report for the American Linen Site, prepared by PES Environmental, Inc. (PES) and dated October 14, 2022 (PES Draft RI Report; PES 2022). Ecology's markups to Figures 41 through 44 and 47 of the PES Draft RI Report are included as Attachment A of this letter report. As indicated in Ecology's PLP Letter, Ecology suggests that the distribution of benzene in groundwater beneath and in the vicinity of the Property and the American Linen Site is consistent with a source of benzene originating at the Property, based on an easterly groundwater flow direction and general downward vertical hydraulic gradient, as illustrated on the figures included in Attachment A.

As described in greater detail in the Geologic and Hydrogeologic Setting section of this letter report, the conceptual groundwater model that has been developed for the South Lake Union Area generally consists of the following hydrogeologic units (SoundEarth 2013; Farallon 2024; PES 2022):

- A shallow water-bearing zone encountered at depths of approximately 10 to 20 feet below ground surface (bgs).
- An intermediate water-bearing zone, which is divided into two depth intervals designated as the Intermediate A water-bearing zone (approximately 35 to 45 feet bgs) and the Intermediate B water-bearing zone (approximately 80 feet bgs).
- A deep outwash aquifer encountered at depths of approximately 90 to 125 feet bgs.

SoundEarth disagrees with Ecology's proposed finding of liability, particularly as it relates to the source(s) of benzene in the intermediate and deep water-bearing zones at the American Linen Site. SoundEarth does not dispute that a release of benzene originating on the Property has occurred and has resulted in current or former impacts to groundwater in the shallow water-bearing zone and potentially in the Intermediate A zone beneath and immediately downgradient (east) of the Property. However, based on SoundEarth's review of the new and existing data for the Property and for multiple other sites in the vicinity of the Property, there is insufficient evidence to demonstrate that the benzene release originating on the Property is the source of the benzene impacts observed in the Intermediate B or deep water-bearing zones (Attachment A; Figures 43 and 44).

This letter report discusses the following supporting factors for SoundEarth's conclusion that SCL should not be included as a PLP for the American Linen Site:

- SoundEarth has identified several additional properties where benzene releases have occurred that are potential contributing sources to the benzene impacts in the intermediate and deep water-bearing zones, including the Block 79 East Site, the Block 37 Site, and the AIBS Building Block 43 Site. Remedial investigations for two of these sites are ongoing, and significant data gaps remain regarding the nature and extent of contamination originating at these sites; therefore, these releases should be considered potential sources or contributing sources to the intermediate and deep water-bearing zone benzene plumes.
- Recent groundwater monitoring results from sampling conducted by SoundEarth indicate that the Intermediate A water-bearing zone is in compliance with the Washington State Model Toxics Control Act (MTCA) Method A cleanup levels in monitoring wells located in the eastern alley between the Property and Block 79 East Site. Therefore, the shallow zone benzene plume does not appear to be vertically migrating to the Intermediate A zone.
- The direction of groundwater flow in the shallow and intermediate water-bearing zones indicates the benzene plume encountered beneath the Property is likely cross-gradient relative to the deep water-bearing zone benzene plume. In addition, the direction of groundwater flow in the deep water-bearing zone does not support migration of benzene from the Property to the current location of the benzene plume in this water-bearing zone.
- A collaborative remedial approach would likely not be as effective to address both the CVOCs originating from the American Linen Site and the petroleum hydrocarbon impacts that are associated with the release at the Property.

PROPERTY BACKGROUND

Based on SoundEarth's review of available historical documents, large portions of the Property were historically submerged beneath Lake Union until the area was artificially filled in the early 1900s. A small cabin was constructed on the northwestern portion of the Property by 1893. By 1905, a shed was constructed on the northwestern portion of the Property, and a residence was constructed on the southwestern portion of the Property. Fill material was added to the Property between 1908 and 1912. The cabin and shed on the northern portion of the Property were removed by 1912, and the residence on the southern portion of the Property was removed by 1917. The existing building, which was historically an automotive repair shop and warehouse occupied by Puget Sound Power and Light Co., was constructed on the southern portion of the Property in 1926. Building plans from 1944 indicate that a 2,700-gallon gasoline underground storage tank (UST) and associated fuel dispensers were installed in the south-central

portion of the parking/storage area, and a 550-gallon gasoline UST was installed in the southwestern portion of the parking/storage area (Figure 2). An oil storage shed and a fuel canopy were constructed on the northern portion of the Property when the storage yard was paved in 1955 (RETEC 1993 and 1995, S&W 2010). According to archived tax records, one 300-gallon UST was installed on the Property in 1955, and one 4,000-gallon UST was installed by 1968. Additional information regarding the presence, contents, and locations of the 300-gallon and 4,000-gallon USTs listed in archived tax records was not available for SoundEarth's review. Engineering drawings prepared for the Property in 1967 indicate the planned installation of a 4,000-gallon diesel UST to the south of the oil storage shed (SCS 1992, S&W 2010). However, this UST was determined not to be present during geophysical and subsurface investigation activities conducted in 1992 and 1993 and was assumed not to have been installed (RETEC 1993 and 1995).

The Property was purchased by SCL sometime between 1955 and 1967. In October 1975, the on-Property building was leased by the City of Seattle Department of Parks & Recreation (SDPR), which subsequently purchased the building and the Property from SCL in November 1991. The canopy and pump island were removed from the Property between 1989 and 1995, and the 2,700- and 550-gallon gasoline USTs were removed from the parking/storage yard in March 1993 (RETEC 1993 and 1995). Ownership of the Property was transferred back to SCL in September 2003.

Potential subsurface petroleum hydrocarbon contamination was first noted in a memo from SDPR to SCL in January 1992 (S&W 2010). The contamination was thought to have resulted from a broken suction line on the 2,700-gallon gasoline UST. Subsurface investigations and remedial actions performed by SoundEarth and others at the Property between 1992 and 2018 include the following:

- April 1992 Geophysical and Soil Vapor Surveys (SCS 1992)
- March 1993 Decommissioning of 2,700- and 550-Gallon USTs, Remedial Excavation, and Subsurface Investigation (RETEC 1993)
- June 1993 Subsurface Investigation (RETEC 1993)
- September 1993 Additional Remedial Excavation (RETEC 1995)
- October 1993 Subsurface Investigation (RETEC 1995)
- July 1994-September 1997 Remedial Alternative Evaluation and Air Sparge/Soil Vapor Extraction (AS/SVE) System Design (RETEC 1994; S&W 2010)
- June 2002 Subsurface Investigation (Urban Redevelopment, LLC 2002)
- August-September 2017 Subsurface Investigation and Groundwater Monitoring (SoundEarth 2017)
- June 2018 Groundwater Monitoring (SoundEarth 2018)

The results of these subsurface investigations indicate that a release from the gasoline USTs at the Property resulted in petroleum hydrocarbon contamination in soil and groundwater beneath the northern portion of the Property. Approximately 2,200 cubic yards of petroleum-contaminated soil were excavated from the vicinities of the 2,700- and 550-gallon USTs during their removal in 1993. Elements of an AS/SVE system were installed and tested by Remediation Technologies, Inc. (RETEC) in the mid-1990s (RETEC 1993 and 1994); however, the AS/SVE system was never operated and was subsequently decommissioned (S&W 2011). Additional subsurface investigations conducted by Urban Redevelopment, LLC in 2002 and

Shannon & Wilson, Inc. (S&W) in 2010 and 2011 indicated that a groundwater plume existed beneath the northern portion of the Property and extended beneath the alley to the east (S&W 2011).

Based on the findings of the most recent subsurface investigation at the Property, which was performed by SoundEarth in 2017 to evaluate and compare soil and groundwater conditions to those observed during previous investigations by others (SoundEarth 2017), gasoline-range petroleum hydrocarbons (GRPH), as well as benzene, toluene, ethylbenzene, and total xylenes (BTEX), were detected at concentrations exceeding their respective cleanup levels at depths between 4 and 24 feet bgs, which was the maximum depth of exploration during this investigation. The highest GRPH and BTEX concentrations were located beneath the northwestern portion of the existing building and in the parking lot area immediately north of the building. Based on the results of previous investigations performed at the Property, GRPH and/or BTEX is present at concentrations exceeding MTCA Method A cleanup levels in soil to depths of up to 35 feet bgs in these areas. GRPH and BTEX concentrations observed during SoundEarth's 2017 investigation appeared to be generally consistent with concentrations detected in similar locations during the 1993 and 2002 investigations, with the exception of benzene that was detected at concentrations above the applicable cleanup level in borings advanced in 2002 beneath the western portion of the northern parking lot; benzene was not detected at concentrations above the laboratory reporting limit in samples collected from borings advanced in these locations during SoundEarth's 2017 subsurface investigation.

Based on the investigation and cleanup work completed at the Property to date, the source of the petroleum hydrocarbon release at the Property has been removed through the decommissioning and removal of the former USTs and associated infrastructure. A significant amount of petroleum-contaminated soil has also been removed from the source area. The remaining petroleum hydrocarbon contamination associated with the release from the former USTs on the Property represents residual petroleum-contaminated soil that was below the feasible extents of the remedial excavation or petroleum-impacted groundwater that may have migrated laterally downgradient from the point of release to the shallow water-bearing zone.

SURROUNDING PROPERTIES

SoundEarth has identified and reviewed the available data for several additional sites with known releases of petroleum hydrocarbons in the vicinity of the benzene plume in the intermediate and deep water-bearing zones. The following sections provide summaries of the historical operations and known environmental conditions at each of these sites. Historical features associated with the sites discussed in this section are depicted on Figures 2 and 3.

BLOCK 79 EAST SITE

The Block 79 East Site is located directly across the alley to the east of the Property at 701 9th Avenue North. The Block 79 East Site is comprised of four parcels, identified from north to south as the Bayside Volvo Property, the Maaco Property, the Ducati Property, and the Buca di Beppo Property (Figure 2). Between the early-1920s and late-2020, these parcels were developed with structures occupied by multiple automotive repair facilities, as well as retail sales, office space, restaurants, and storage. All structures were demolished in 2020 in preparation for property redevelopment. Multiple USTs, including 1,600- and 300-gallon waste oil USTs, 900- and 675-gallon heating oil USTs, and a 1,000-gallon gasoline UST, were formerly located on the Bayside Volvo, Maaco, and Ducati Properties prior to their decommissioning and removal between 1992 and 2021. Additional historical operations and features on these properties

included a machine shop, multiple hydraulic hoists, a supply and oil storage room, a greasing pit, a paint spray area, and boiler rooms (Figure 2). Multiple subsurface investigations have been conducted at the Block 79 East Site between 1988 and 2024. These investigations have identified GRPH, diesel- and oil-range petroleum hydrocarbons (DRPH and ORPH, respectively), volatile organic compounds including BTEX, carcinogenic polycyclic aromatic hydrocarbons (cPAHs), and metals at concentrations exceeding applicable MTCA cleanup levels in soil and groundwater (Farallon 2024).

Based on the results of investigations conducted to date, benzene has been detected at concentrations exceeding the MTCA Method A cleanup level in soil samples collected at depths between 7.5 and at least 35 feet bgs on the Bayside Volvo and Maaco Properties. Additionally, benzene has been detected at concentrations exceeding the MTCA Method A cleanup level in soil samples collected at depths between 10 and 65 feet bgs from monitoring wells MW-319 and MW-323, located in the 9th Avenue North right-of-way (ROW) to the east of the Maaco and Ducati Properties. These monitoring wells are situated approximately 200 to 330 feet southeast of the former USTs on the Seattle Roy Aloha Shops Property (Figure 4). Groundwater data for the existing monitoring wells at the Block 79 East Site is currently limited; however, in 2014, benzene was detected at a concentration exceeding the MTCA Method A cleanup level in a groundwater sample collected from monitoring well B79E-102, which is screened in the Intermediate A water-bearing zone and is located on the southern portion of the Maaco Property.

The Block 79 East Site is currently under Agreed Order No. DE 21104, and remedial investigation activities to further evaluate the nature and extent of impacts in the shallow and intermediate water-bearing zones at the Block 79 East Site are currently ongoing.

BLOCK 37 SITE

The Block 37 Site is located to the southeast of the Property at 600 Westlake Avenue North near the southern end of Lake Union. The Block 37 Site also includes portions of the Valley Street ROW to the north and the Westlake Avenue North ROW to the west, which are in the immediate vicinity of the deep water-bearing zone benzene plume as depicted on Figure 44 included in Attachment A.

Since the late 1800s, the parcels included with in the Block 37 Site have been occupied by industrial, retail, and other commercial facilities. These facilities have included gasoline service stations on the southwestern and northwestern portions of the Block 37 Site between approximately 1930 and 2008, an automotive repair facility on the northwestern portion of the Block 37 Site between approximately 1971 and 2002, and a lumber mill between the late 1800s until the late 1980s. All structures were demolished prior to 2021, and the property is planned for redevelopment. Numerous USTs were formerly present on the northwestern, southwestern, and central portions of the Block 37 Site, including multiple gasoline, diesel, waste oil, and heating USTs between 500 and 10,000 gallons in capacity. Additional historical operations and features associated with former gasoline service station and automotive repair operations included fuel dispensers, hydraulic hoists, and service station buildings (Atlas 2023a; Figure 3).

Known releases of petroleum hydrocarbons have occurred from USTs and infrastructure associated with both of the gasoline service stations formerly located at the Block 37 Site, and multiple subsurface investigations have been conducted between 1980 and 2024 to evaluate the nature and extent of the petroleum hydrocarbon impacts. These investigations have identified GRPH, DRPH, ORPH, BTEX, and cPAHs at concentrations exceeding MTCA cleanup levels in soil and groundwater. Based on the results of investigations conducted to date, benzene has been detected at concentrations exceeding the MTCA

Method A cleanup level in soil samples collected at elevations between approximately 30 and at least 8 feet (North American Vertical Datum of 1988 [NAVD88]) throughout all five of the parcels included within the Block 37 Site and beneath the Valley Street and Westlake Avenue North ROWs to the north and west. In 2022, benzene was detected at a concentration exceeding the MTCA Method A cleanup level in shallow monitoring well MRW-5, located in the southeastern portion of the Block 37 Site. Benzene has also been detected at concentrations exceeding the MTCA Method A cleanup level in deep monitoring well MW-128, located in the Westlake Avenue North ROW directly adjacent to the northwestern corner of the Block 37 Site (Atlas 2023a and 2023b).

The Block 37 Site is currently under Agreed Order No. DE 1943. The Final Remedial Investigation Work Plan prepared by Atlas in 2023 notes that previous investigations have not fully characterized contamination in the intermediate or deep water-bearing zone, and remedial investigation activities to further evaluate the nature and extent of impacts at the Block 37 Site are currently ongoing.

AIBS BUILDING BLOCK 43 SITE

The AIBS Building Block 43 Site is located to the southeast of the Property at 601 Westlake Avenue North near the southern end of Lake Union. The AIBS Building Block 43 Site also includes portions of the Roy Street ROW to the north and the Westlake Avenue North ROW to the east, which are in the immediate vicinity of the deep water-bearing zone benzene plume as depicted on Figure 44 of Attachment A.

Between approximately 1950 and 2009, automotive repair and fueling facilities operated on the western, north-central, and northeastern portions of the AIBS Building Block 43 Site. Twelve USTs associated with these facilities were formerly located at the AIBS Building Block 43 Site, including four USTs ranging from 500 to 1,000 gallons in capacity that contained heating oil or Bunker C oil, and eight additional undocumented USTs ranging from 300 to 2,750 gallons in capacity, which were discovered during excavation of that property (Farallon 2018; HWA 2015).

Previous investigations conducted at the AIBS Building Block 43 Site have identified the presence of GRPH, DRPH, ORPH, BTEX, cPAHs, and metals in soil and groundwater beneath the AIBS Building Block 43 Site. Farallon's 2018 Groundwater Cleanup Report indicates that these impacts were mostly confined to soil and groundwater in the shallow and intermediate water-bearing zones on the property, although deeper investigation was never performed. The majority of the property was excavated to depths between approximately 12 to 42 feet bgs for property redevelopment between 2013 and 2015; however, petroleum hydrocarbons were detected at concentrations exceeding MTCA cleanup levels in soil beneath the northeastern corner of the property that was not excavated during property redevelopment at depths from the ground surface down to approximately 15 feet bgs (Farallon 2018; HWA 2015; Figure 3).

A construction dewatering system operated at the AIBS Building Block 43 Site as part of the redevelopment for approximately 14 months beginning in November 2013. Dewatering wells were typically installed from -17 to -37 feet NAVD88 across the Intermediate B and deep zones. Initial concentrations of benzene in extracted groundwater were higher and generally decreased over time as the construction activities concluded, indicating the likely presence of local sources of petroleum hydrocarbon impacts at this site or nearby.

An AS/SVE system was installed at the AIBS Building Block 43 Site in 2015 to treat the residual petroleum hydrocarbon impacts remaining beneath the northeastern portion the property, extending into the adjacent ROWs. The current operational status of this system is unknown.

The AIBS Building Block 43 Site was formerly managed under Ecology's Voluntary Cleanup Program until its termination from the program in January 2020 due to its inactivity and complexity.

900 ROY STREET PROPERTY

The property located at 900 Roy Street is located across the 9th Avenue North ROW to the east of the southern end of the Block 79 East Site (Figure 3). This property is not listed in Ecology's database as a site with known impacts to soil or groundwater. However, historical operations on this property have included a gasoline service station and automotive repair shop in the 1930s, a machine shop in the 1950s, and an automotive repair shop in at least 1969 (Farallon 2024). Releases associated from these historical operations are common and may have resulted in petroleum hydrocarbon impacts to soil and/or groundwater; these potential impacts may have contributed to benzene concentrations observed in the intermediate and deep water-bearing zones in the vicinity.

FORMER UST – 9TH AVENUE NORTH RIGHT-OF-WAY

During grading activities on the eastern side of the 9th Avenue North ROW in August 2011, a UST was encountered adjacent to the property located at 707 Westlake Avenue North (Figure 3). The UST was decommissioned and removed at that time and was observed to be approximately 350 gallons in capacity and to contain a mixture of unknown petroleum product and water. Approximately 15 cubic yards of petroleum-contaminated soil was excavated from the vicinity of the UST before excavation activities were discontinued due to concerns related to nearby utilities. GRPH and DRPH were detected at concentrations exceeding MTCA Method A cleanup levels in soil samples collected from the bottom of the excavation (PI Resources, LLC 2011).

SOUTH LAKE UNION PARK SITES

The Ecology database identifies three sites located within South Lake Union Park at the southern end of Lake Union (Figure 3). These sites include the following:

- Seattle South Lake Union Park Site
- Seattle City South Lake Union Naval Reserve Center Site
- Seattle City Parks NW Seaport Site

Available documentation related to these sites is limited. However, historical operations at these sites have included a glass manufacturing plant, boat repair facilities, and US Navy operations. Four USTs containing heating and other fuel oil were formerly located on the Seattle South Lake Union Park Site and were removed in 1993. Releases of petroleum hydrocarbons have occurred on each of these sites and have resulted in GRPH, DRPH, ORPH, and volatile organic compound impacts in soil and groundwater.

GEOLOGIC AND HYDROGEOLOGIC SETTING

Based on the findings of previous investigations performed by SoundEarth and others on and in the vicinity of the Property, subsurface soil in the area consists primarily of anthropogenic fill locally mantling recent

lacustrine deposits, Vashon-age glacial deposits, and possible pre-Fraser glacial deposits. *The Geologic Map of Seattle—A Progress Report* (Troost et al. 2005) indicates that the Property is underlain by artificial fill material. Based on SoundEarth's review of historical records, the Lake Union shoreline formerly ran through the Property in a north-south orientation before the shoreline was shifted eastward by the placement of fill in the early 1900s. Previous subsurface investigations at the Property have encountered fill material containing anthropogenic material such as glass, wood, brick, and tile debris in soil borings to depths of up to approximately 30 feet bgs.

As described in SoundEarth's Draft Remedial Investigation Report dated July 15, 2013, prepared for the 700 Dexter Property, which is the source property of the impacts that constitute the American Linen Site (SoundEarth 2013), groundwater in the vicinity of the Property is characterized by a series of discontinuous water-bearing zones (shallow, Intermediate A, Intermediate B, and deep) that extend down to the top of the deep glacial outwash deposits. The conceptual groundwater model that has been developed for the South Lake Union Area generally consists of the following units (SoundEarth 2013; Farallon 2024; PES 2022):

- A shallow water-bearing zone consisting of fill, lacustrine deposits, and weathered and unweathered glacial deposits. The shallow water-bearing zone is encountered at depths of approximately 10 to 20 feet bgs.
- An intermediate water-bearing zone consisting of dense to very dense heterogeneous glacial deposits (i.e., ice-contact deposits, till, and/or subglacial meltout till) that appears to function as a leaky aquitard. The intermediate water-bearing zone is divided into two depth intervals designated as the intermediate A water-bearing zone and the intermediate B water-bearing zone. is the Intermediate A zone is encountered at depths of approximately 35 to 45 feet bgs, and the Intermediate B zone is encountered at a depth of approximately 80 feet bgs. The distinction between the two intermediate zones decreases with distance to the east of the Property, with little to no distinction between the two zones to the east beyond the 9th Avenue North ROW.
- A deep outwash aquifer consisting of glacial outwash deposits that is situated beneath the intermediate water-bearing interval. The deep outwash aquifer is a confined aquifer in the vicinity of the Property, with a thickness ranging from about 25 to 45 feet. The deep aquifer extends from a depth of about 90 to 125 feet bgs.

SOUNDEARTH DATA REVIEW AND GROUNDWATER SAMPLING EVENT

To evaluate Ecology's suggestion that SCL may be a PLP for the American Linen Site, as documented in the PLP Letter sent to SCL in May 2024, SoundEarth has completed a review of the available data that has been generated at sites throughout the South Lake Union neighborhood, including the Property, the American Linen Site, the Block 79 East Site, the Block 37 Site, and the AIBS Building Block 43 Site (Figures 2 through 4).

To supplement the data currently available for each of these sites, many of which are currently undergoing remedial investigation activities by other consultants, SoundEarth conducted a limited groundwater monitoring event in August 2024. SoundEarth's monitoring event included the collection of depth-to-groundwater measurements and groundwater samples from select monitoring wells on the Property and in the surrounding ROWs to evaluate current groundwater conditions and compare these conditions with the data presented in Ecology's figure markups provided in Attachment A. SCL is in the process of

negotiating access to the east-adjacent Block 79 East property to collect groundwater samples from the seven existing monitoring wells on that property; however, at the time of preparation of this letter report, access has not been granted by the owner of Block 79 East property. Therefore, the current groundwater conditions for the well network at the Block 79 East property are unknown.

GROUNDWATER MONITORING FIELD ACTIVITIES

SoundEarth's groundwater monitoring event was performed between August 2 and 12, 2024. The monitoring event included measuring depths to groundwater in 47 monitoring wells (Figures 5 through 8) that are screened within the shallow, Intermediate A, Intermediate B, and deep water-bearing zones, including:

- **Shallow water-bearing zone:** SCS-001 through SCS-008 and SCS-010, located on the Property; MW-9, located in the 8th Avenue North ROW; MW-320, located in the 9th Avenue North ROW; and MW-312, SCL-101, SCL-102, and SCL-105, located in the alley between the Property and the Block 79 East property.
- **Intermediate A water-bearing zone:** MW-107, MW-120, MW-127, MW-142, MW-144R, and MW-156, located in the 8th Avenue North ROW; and MW-108, MW-109, MW-308, and MW-331, located in the alley between the Property and the Block 79 East property.
- **Intermediate B water-bearing zone:** MW-143 and MW-157, located in the 8th Avenue North ROW; MW-318 and MW-322, located in the 9th Avenue North ROW; and FMW-141, MW-111, MW-126, MW-309, and MW-311, located in the alley between the Property and the Block 79 East property.
- **Deep water-bearing zone:** MW-104, MW-158A, MW-160, and MW-161, located in the 8th Avenue North ROW; MW-113 and MW-323, located in the 9th Avenue North ROW; MW-103 and MW-122, located in the alley between the Property and the Block 79 East property; and MW-123, MW-128, MW-328, MW-329, and MW-341, located in the Westlake Avenue North ROW.

Prior to collecting depth-to-groundwater measurements, SoundEarth personnel opened each of the 47 monitoring wells and permitted water levels to equilibrate with atmospheric pressure for a minimum of one hour. Groundwater levels were measured relative to the top of well casing to an accuracy of 0.01 feet using an electronic water level meter.

Groundwater samples were collected from each of the monitoring wells listed above in accordance with the US Environmental Protection Agency (EPA) "Low-Flow (Minimal Drawdown) Ground-Water Procedures" (Puls and Barcelona 1996), with the exception of shallow water-bearing zone wells MW-312 and MW-320 and deep water-bearing zone wells MW-113, MW-122, and MW-123, which were not included in the scope of the sampling event because data from past monitoring events demonstrated consistent compliance with the MTCA Method A cleanup level for benzene. A sample was not collected from monitoring well MW-157 due to the presence of emulsified oil substrate that was blocking the well casing; similar conditions were reportedly encountered at monitoring well MW-157 during previous groundwater monitoring events conducted by others.

Purging and sampling of each monitoring well were performed using a peristaltic pump and dedicated polyethylene tubing. The intake was placed approximately two to three feet below the surface of the groundwater in each monitoring well or at mid-screen if the top of the screen was submerged. During

purging, water quality was monitored using a YSI water quality meter equipped with a flow-through cell. The water quality parameters that were monitored and recorded included temperature, pH, specific conductivity, dissolved oxygen, turbidity, and oxidation-reduction potential. Each monitoring well was purged until a minimum subset of pH, specific conductivity, and dissolved oxygen and/or turbidity stabilized.

Following purging, groundwater samples were collected from the pump outlet tubing located upstream of the flow-through cell and placed directly into clean, laboratory-prepared sample containers. Each container was labeled with a unique sample identification number, placed on ice in a cooler, and transported to Fremont, Analytical, Inc., of Seattle, Washington, under standard chain-of-custody protocols for laboratory analysis of GRPH by Northwest Total Petroleum Hydrocarbon (NWTPH) Method NWTPH-Gx and BTEX by EPA Method 8260D.

GROUNDWATER FLOW DIRECTION

SoundEarth evaluated the known surveyed top of casing elevations and depths to groundwater, as measured in each well on August 2, 2024, to determine groundwater elevations and calculate flow directions within each of the four water-bearing zones. The groundwater contour maps generated for each of the water-bearing zones are depicted on Figures 5 through 8.

The groundwater flow directions, as measured during the August 2024 groundwater monitoring event, are described below for each of the water-bearing zones:

- Groundwater flow direction for the shallow water-bearing zone was toward the east-northeast.
- Groundwater flow direction for the Intermediate A water-bearing zone was toward the east.
- Groundwater flow direction for the Intermediate B water-bearing zone was toward the east.
- Groundwater contours for the deep water-bearing zone in the vicinity of monitoring well MW-113, located in the 9th Avenue North ROW, are elliptical in shape with a general north-south major axis. The groundwater flow direction for the deep water-bearing zone flows radially away from the elliptical-shaped high groundwater contours. The groundwater in this zone appears to flow in a westerly direction beneath the Block 79 East property and in an easterly to southerly direction beneath the 900 Roy Street property located farther to the east, away from the elliptical-shaped high groundwater contours located in the 9th Avenue North ROW.

Groundwater flow directions in the shallow and Intermediate A and B water-bearing zones were generally consistent with 2019 groundwater contours included in the PES Draft RI Report. Groundwater flow direction within the deep water-bearing zone was observed to extend to the east and west away from the high groundwater elevations located in the 9th Avenue North ROW. The gradient of groundwater flow in the deep water-bearing zone is significantly less than that observed in the shallow and intermediate water-bearing zones. It is noted that the 2019 groundwater contour map provided in the PES Draft RI Report also depicts groundwater flowing to the east and west away from a high groundwater elevation area in the deep water-bearing zone; however, the high groundwater elevations depicted on the 2019 contour map are situated farther to the west beneath the Block 79 East Site and closer to the Property.

In general, the groundwater flow directions observed during the August 2024 groundwater monitoring event for the four water-bearing zones are similar to previous monitoring events conducted by others during time periods when active construction dewatering was not occurring in the South Lake Union area.

GROUNDWATER ANALYTICAL RESULTS

The analytical results for the groundwater samples collected during SoundEarth's August 2024 groundwater monitoring event are summarized in Tables 1 through 4. These tables also include the analytical results for GRPH and BTEX from the four most recent groundwater monitoring events for applicable monitoring wells in the vicinity for which data was currently available. Groundwater analytical results from the August 2024 sampling event are depicted by water-bearing zone on Figures 9 through 12 and are summarized below. Laboratory analytical reports from this sampling event are included in Attachment B.

- **Shallow water-bearing zone:** Benzene was detected at concentrations exceeding the MTCA Method A cleanup level in groundwater samples collected from on-Property monitoring wells SCS-002 and SCS-006, and from monitoring wells SCL-102 and SCL-105, which are located in the alley between the Property and the Block 79 East property. GRPH was detected at concentrations exceeding the MTCA Method A cleanup level in groundwater samples collected from on-Property monitoring wells SCS-002, SCS-004, SCS-006, and SCS-007, and from monitoring wells SCL-101, SCL-102, and SCL-105, which are located in the alley between the Property and the Block 79 East property.
- **Intermediate A water-bearing zone:** Benzene and GRPH were not detected at concentrations exceeding the MTCA Method A cleanup level in any of the groundwater samples collected from Intermediate A water-bearing zone monitoring wells.
- **Intermediate B water-bearing zone:** Benzene was detected at a concentration exceeding the MTCA Method A cleanup level in the groundwater sample collected from monitoring well MW-318, located in the 9th Avenue North ROW. GRPH was detected at a concentration exceeding the MTCA Method A cleanup level in the groundwater sample collected from monitoring well MW-322, located in the 9th Avenue North ROW.
- **Deep water-bearing zone:** Benzene was detected at concentrations exceeding the MTCA Method A cleanup level in groundwater samples collected from monitoring wells MW-128 and MW-341, located in the Westlake Avenue ROW near the southern end of Lake Union. GRPH was not detected at concentrations exceeding the MTCA Method A cleanup level in any of the deep water-bearing zone monitoring wells from which samples were collected.

The analytical results for the groundwater samples collected during the August 2024 groundwater monitoring event indicate that benzene concentrations are either below the MTCA Method A cleanup levels or have significantly decreased since the last known monitoring event performed in November 2023 by PES, with the exception of the following four monitoring well locations:

- **Shallow zone monitoring well SCL-105**, located downgradient of the Property in the alley between Roy Street Shops and the Block 79 East property. The source(s) of these petroleum hydrocarbon impacts at monitoring well SCL-105 has not been confirmed but may have originated from releases at the Property. These petroleum hydrocarbon impacts do not appear to be co-located with the American Linen Site CVOC plume for the shallow water-bearing zone.

- **Intermediate B zone monitoring well MW-318**, which is located downgradient of the Block 79 East property in the 9th Avenue North ROW. Monitoring well MW-318 is located near monitoring well MW-319, which is screened in the deep water-bearing zone. Benzene was detected at concentrations exceeding the MTCA Method A cleanup levels in soil samples collected from depths of 35 to 65 feet bgs in monitoring well MW-319. Based on data presented in the PES Draft RI Report, monitoring well MW-318 is located within the American Linen Site CVOC plume. Data that would allow for further assessment of the source and extent of the petroleum hydrocarbon impacts in the vicinity of monitoring well MW-318 for the Block 79 East Site has not been made available to SoundEarth.
- **Deep zone monitoring wells MW-128 and MW-341**, which are located near Lake Union in the Westlake Avenue North ROW. These two monitoring wells are located next to at least three additional properties where benzene releases have occurred that are potentially contributing sources to the benzene impacts in the intermediate and deep water-bearing zones, including the Block 79 East Site, the Block 37 Site, and the AIBS Building Block 43 Site (Figure 4). Remedial investigations for at least two of these sites are ongoing, and significant data gaps remain regarding the nature and extent of contamination originating at these sites; therefore, these petroleum hydrocarbon releases should be considered potential sources or contributing sources to the intermediate and deep water-bearing zone benzene plumes.

GRPH was detected at concentrations exceeding the MTCA Method A cleanup level in groundwater samples collected from seven shallow zone wells (SCS-002, SCS-004, SCS-006, SCS-007, SCL-101, SCL-102, and SCL-105) located on the Property or in the alley between the Property and the Block 79 East property. These petroleum hydrocarbon impacts do not appear to be co-located with the American Linen Site CVOC plume for the shallow water-bearing zone.

GRPH was also detected at concentrations exceeding the MTCA Method A cleanup level in the groundwater sample collected from Intermediate B zone monitoring well MW-322, which is located proximate to the Block 79 East property. Site characterization data for the Block 79 East property was not made available to SoundEarth. As such, it is not apparent whether release(s) at the Block 79 East property are contributing to these impacts. Based on PES's Draft RI Report, monitoring well MW-322 is located within the American Linen Site CVOC plume.

GRPH and benzene were not detected in groundwater samples collected from any of the Intermediate A monitoring wells during SoundEarth's August 2024 sampling event.

SUMMARY

The results of the recent groundwater monitoring activities by SoundEarth and the available findings from remedial investigations by others at sites within or in the vicinity of the American Linen Site indicate the following:

- **Shallow Water-Bearing Zone**
  - The groundwater flow direction in the vicinity of the Property for the shallow water-bearing zone is east to northeast based on current and past groundwater contour maps that represent periods during which construction dewatering was not influencing the flow direction. The petroleum hydrocarbon plume at the Property does not commingle with the American Linen

Site CVOC plume; however, it is potentially commingled with the petroleum hydrocarbon impacts at the Block 79 East Site. Additional subsurface assessment of the shallow water-bearing zone is necessary to delineate the lateral extent of petroleum hydrocarbon impacts east of the Property.

- **Intermediate A Water-Bearing Zone**
  - Benzene and GRPH were detected at concentrations below the MTCA Method A cleanup levels in groundwater samples collected from the four monitoring wells located in the alley between the Property and the Block 79 East property. These results from the four monitoring wells are consistent with the last three groundwater monitoring events, except for one groundwater sample collected from monitoring well MW-308 in November 2022, which contained a benzene concentration exceeding the MTCA Method A cleanup level.
  - The former petroleum hydrocarbon groundwater impacts in this water-bearing zone appear to have attenuated and have remained below applicable MTCA Method A cleanup levels at the four monitoring well locations MW-331, MW-308, MW-108, and MW-109 for the last three to four monitoring events. Therefore, petroleum hydrocarbon impacts in the Intermediate A water-bearing zone are not currently co-located with the American Linen Site CVOC plume.
  - Benzene was detected at a concentration exceeding the MTCA Method A cleanup level in the groundwater sample collected from monitoring well B79E-102 (GEI-MW-2), located on the Block 79 East property, in September 2014. SCL was not able to secure access to the Block 79 East property for the August 2024 monitoring event, so the current benzene concentration in groundwater at this monitoring well is unknown. However, based on the location of this well, the benzene impacts previously detected at monitoring well B79E-102 are likely associated with a release originating on the Block 79 East property.
- **Intermediate B Water-Bearing Zone**
  - Benzene was detected at concentrations exceeding the MTCA Method A cleanup level in groundwater samples collected from monitoring wells MW-318 and MW-322, located in the 9th Avenue North ROW, in 2022 and 2023. Ecology has suggested that these benzene concentrations are commingled with the American Linen Site CVOC plume.
  - The benzene concentration in the groundwater sample collected from monitoring well MW-318 during the August 2024 monitoring event is similar to the benzene concentrations detected in samples collected from these wells in 2022 and 2023. Benzene was detected at a concentration below the MTCA Method A cleanup level in the groundwater sample collected from monitoring well MW-322 during the August 2024 groundwater monitoring event; however, GRPH concentrations in this sample remained slightly above the MTCA Method A cleanup level. Benzene concentrations in groundwater at monitoring well MW-322 have been decreasing since 2022; during the November 2023 and August 2024 groundwater sampling events, the benzene concentrations were below the MTCA Method A cleanup levels. Further subsurface assessment of the Intermediate B water-bearing zone is necessary to delineate the lateral extent of petroleum hydrocarbon impacts east of the Property on the Block 79 East property. Based on the existing distribution of benzene impacts in this water-bearing zone, it appears likely that these impacts are associated with a release originating on the Block 79 East property.

- The footprint of the petroleum hydrocarbon plume for the Intermediate B water-bearing zone is located near the most downgradient portion of the American Linen Site CVOC plume and is much smaller in size.

- **Deep Water-Bearing Zone**

  - Benzene was detected at concentrations exceeding the MTCA Method A cleanup level in groundwater samples collected from monitoring well MW-128, which is located in the eastern portion of Westlake Avenue North ROW, proximate to the Block 37 Site, during the November 2022 and August 2024 groundwater monitoring events. These petroleum hydrocarbon impacts appear to be attributable to releases from the Block 37 Site and potentially from the AIBS Building Block 43 Site.

  - Monitoring wells MW-328 and MW-341 are located in the eastern portion of the Westlake Avenue North ROW, immediately southwest of Lake Union. The wells are situated north of the Block 37 and Block 43 properties, which are potential sources of the petroleum hydrocarbon impacts encountered in groundwater samples collected from monitoring wells MW-328 and MW-341.

    Benzene concentrations in groundwater at well MW-328 have been generally decreasing since the November 2022 groundwater sampling event. During the August 2024 groundwater sampling event, benzene was detected at a concentration below the MTCA Method A cleanup level in the groundwater sample collected from monitoring well MW-328.

    Benzene concentrations in groundwater at monitoring well MW-341 have been relatively consistent and have remained above the MTCA Method A cleanup level in the four most recent groundwater sampling events, including the August 2024 event.

  - Benzene was detected at concentrations exceeding the MTCA Method A cleanup level in groundwater samples collected from monitoring well FMW-140, located at 900 Roy Street (Parcel No. 4088803495), during three of the four monitoring events performed between May 2022 and November 2023. However, the benzene concentrations at monitoring well FMW-140 decreased by half relative to the November 2023 event from the current event. Access was not available to monitoring well FMW-140 during the August 2024 monitoring event, so the current benzene concentration in groundwater proximate to monitoring well FMW-140 is unknown.

  - Ecology has identified five monitoring wells (MW-128, MW-328, MW-329, MW-341, and FMW-140) as being situated within the boundaries of the American Linen Site CVOC plumes for intermediate and deep water-bearing zones. There are several potential contributing sources of petroleum hydrocarbon impacts in the deep water-bearing zone that are located more closely to the American Linen Site CVOC plume than the Property, including the Block 79 East Site, the Block 37 Site, and the AIBS Building Block 43 Site. The currently available data does not allow for a conclusive determination of the source or sources of the benzene impacts in the deep water-bearing zone at this time; however, this should be evaluated further upon completion of the remedial investigations at the Block 79 East and Block 37 Sites.

The cross sections provided on Figures 13, 14, and 15 (see Figure 4 for plan view of cross section lines), depict SoundEarth's interpretation of the dissolved-phase CVOC groundwater plume from the American Linen Site and the dissolved-phase benzene plume from nearby potential sources of petroleum

hydrocarbon impacts. Based on the available historical and current environmental data referenced in this letter report, it is SoundEarth's opinion that releases from the Property have not contributed to the current benzene impacts in the Intermediate B and deep water-bearing zones, and that the impacts in these water-bearing zones, especially to the east of the Property, are attributable to more proximal sources such as the Block 79 East Site, the Block 37 Site, and the AIBS Building Block 43 Site.

CONCLUSIONS

Based on the results of recent groundwater sampling activities and information summarized in this letter report, SoundEarth has made the following conclusions:

- The dissolved-phase benzene plume at the Property does not commingle with the American Linen Site CVOC plume in the shallow water-bearing zone.
- The benzene plume in the shallow zone is located north of the deeper benzene plumes in the Intermediate B and deep zones. The current and historical groundwater flow directions for the shallow and intermediate zones are toward the east to northeast, indicating that the benzene plume beneath the Property is likely migrating to the east and northeast under natural groundwater flow conditions, cross-gradient of the Intermediate B and deep zone benzene plumes.
- The direction of groundwater flow in the shallow and intermediate water-bearing zones indicates the benzene plume encountered beneath the Property is likely cross-gradient relative to the benzene plume in the deep water-bearing zone. In addition, the direction of groundwater flow in the deep water-bearing zone does not support migration of benzene from the Property to the current location of the benzene plume in this water-bearing zone.
- The petroleum hydrocarbon groundwater impacts formerly encountered in the Intermediate A water-bearing zone have attenuated and remained in compliance for petroleum hydrocarbons at the four monitoring well locations (MW-331, MW-308, MW-108, and MW-109) for the last three to four monitoring events. Therefore, petroleum hydrocarbon impacts in the Intermediate A water-bearing zone are not currently co-located with the American Linen Site CVOC plume.
- The footprint of the petroleum hydrocarbon plume in the Intermediate B water-bearing zone is located near the most downgradient portion of the American Linen Site CVOC plume and is much smaller in size.
- Further assessment of the Intermediate B water-bearing zone is necessary to delineate the lateral extent of petroleum hydrocarbon impacts beneath the Block 79 East property to the east of the Property.
- Likely sources of petroleum impacts in the Intermediate B and deep water-bearing zones, especially the impacts located to the east of the Property, include the Block 79 East Site, the Block 37 Site, the AIBS Building Block 43 Site, and the 900 Roy Street Property.

Based on SoundEarth's review, it appears that the petroleum hydrocarbon impacts associated with the Property are limited to the shallow and Intermediate A water-bearing zones, where these impacts are not commingled with CVOC impacts from the American Linen Site, and that other sites in the vicinity are more likely sources of the petroleum hydrocarbon impacts in the Intermediate B and deep water-bearing zones, where these impacts are commingled with CVOC impacts from the American Linen Site. Performing a

remedial investigation and cleanup of the impacts originating from the Property under the existing Agreed Order with the American Linen Site PLPs is not an appropriate, effective, or efficient approach, considering the disparity that exists between the contaminants; the locations, depths, and sizes of the contaminant plumes; the remedial approaches that will likely be implemented; and the timeframes within which compliance can reasonably be expected to be achieved for the American Linen Site and the impacts originating from the Property. Furthermore, if performed independent of the American Linen Site's Agreed Order, the remedial investigation and cleanup by SCL and other PLPs for the petroleum hydrocarbon impacts will not negatively impact the timing, cost, or effectiveness of the cleanup of the American Linen CVOC plume.

The Block 79 East Site is proceeding with a remedial investigation under an existing Agreed Order that is separate from the American Linen Site. The objectives of the planned Block 79 East Site's remedial investigation are to delineate the extent of petroleum hydrocarbon impacts, develop a conceptual site model, and provide additional data to assist with the development of different remedial and redevelopment scenarios. Based on previous conversations between SoundEarth, SCL, and Ecology, the field activities associated with the Block 79 East Site's remedial investigation are anticipated to be completed before the end of 2024. In August 2023, a representative for the Block 79 East Site indicated to Ecology that separate Agreed Orders for the Block 79 East Site and the Property will not preclude PLPs from coordinating during future remedial investigations or cleanup actions.

It is SoundEarth's opinion that the most appropriate regulatory path(s) for the petroleum impacts that have originated from releases at the Property and other nearby properties would include either (1) a focused remedial investigation and cleanup action performed under an Agreed Order that is separate from the American Linen Site and all other parties, or (2) a collaborative cleanup action with the Block 79 East Site to address the commingled petroleum hydrocarbon impacts associated with both properties.

SoundEarth appreciates the opportunity to provide a response to Ecology's PLP Letter regarding SCL's potential liabilities associated with the American Linen Site. Please let us know if we can provide any additional information.

Respectfully,

SoundEarth Strategies, Inc.

Clare Tochilin, LG
Senior Geologist

Timothy S. Brown, LHG
Senior Hydrogeologist

Ryan Bixby, LG
Managing Principal

cc: Tena Seeds, PE, Washington State Department of Ecology

Attachments: Figure 1, Property Location Map
Figure 2, Historical Features, Seattle Roy Aloha Shops and Block 79 East Sites
Figure 3, Historical Features, Surrounding Properties
Figure 4, Exploration Location Plan
Figure 5, Groundwater Contour Map, Shallow Water-Bearing Zone, August 2, 2024
Figure 6, Groundwater Contour Map, Intermediate A Water-Bearing Zone, August 2, 2024
Figure 7, Groundwater Contour Map, Intermediate B Water-Bearing Zone, August 2, 2024
Figure 8, Groundwater Contour Map, Deep Water-Bearing Zone, August 2, 2024
Figure 9, Groundwater Analytical Results, Shallow Water-Bearing Zone, August 2024
Figure 10, Groundwater Analytical Results, Intermediate A Water-Bearing Zone, August 2024
Figure 11, Groundwater Analytical Results, Intermediate B Water-Bearing Zone, August 2024
Figure 12, Groundwater Analytical Results, Deep Water-Bearing Zone, August 2024
Figure 13, Conceptual Site Model Cross Section B-B'
Figure 14, Conceptual Site Model Cross Section H-H'
Figure 15, Conceptual Site Model Cross Section J-J'
Table 1, Groundwater Analytical Results for GRPH and BTEX, Shallow Water-Bearing Zone
Table 2, Groundwater Analytical Results for GRPH and BTEX, Intermediate A Water-Bearing Zone
Table 3, Groundwater Analytical Results for GRPH and BTEX, Intermediate B Water-Bearing Zone
Table 4, Groundwater Analytical Results for GRPH and BTEX, Deep Water-Bearing Zone
A, Ecology Markups to Figures 41 through 44 and 47 of the 2022 Agency Review Draft Remedial Investigation Report, American Linen Supply Co Dexter Ave Site, Prepared by PES
B, Laboratory Analytical Reports, August 2024 Groundwater Monitoring Event

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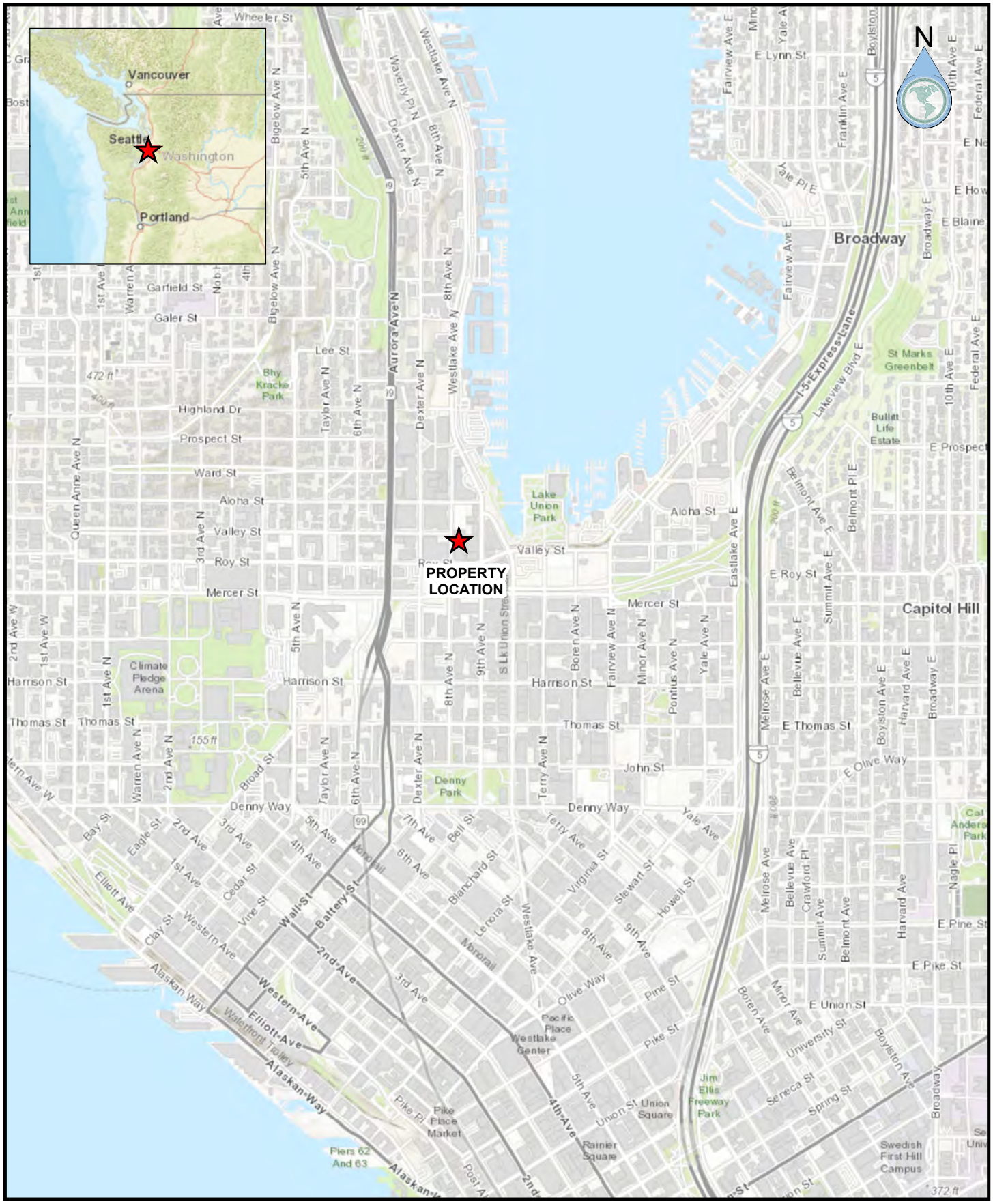
FIGURES



0 1,000 2,000

SCALE IN FEET

SoundEarth Strategies

WWW.SOUNDEARTHINC.COM

SEATTLE ROY ALOHA SHOPS PROPERTY
800 ALOHA STREET
SEATTLE, WASHINGTON
SOUNDEARTH PROJECT: 1590-001

PROPERTY LOCATION MAP

FIGURE 1

PROJECT MANAGER C.TOCHILIN

DRAWN BY S.ALBERTS

P:\1590 SEATTLE CITY LIGHT\1590-001 GW REMED ASSESSMENT-DESIGN\8TH AND ROY\TECHNICAL\CAD\FIGURE 1\1590-001-2024_PL_ROY.MXD

12/5/2024

P:\1590 SEATTLE CITY LIGHT\1590-001 GW REMED ASSESSMENT-DESIGN\8TH AND ROY\TECHNICAL\CAD\2024\1590-001_2024_HIST_PROPERTY_BLOCK 79E.DWG

LEGEND

- PROPERTY BOUNDARY
- PARCEL BOUNDARY
- HISTORICAL LAKE UNION SHORELINE
- UST — UNDERGROUND STORAGE TANK

N

ALOHA STREET

SOUTH LAKE UNION PARK
PARCEL 4088803600

810 DEXTER AVENUE NORTH
PARCEL 2249000330

DEXTER AVENUE NORTH

FORMER OIL HOUSE

FORMER PUMP CANOPY AND PUMP

FORMER WASH AREA

FORMER 550-GALLON WASTE OIL UST

FORMER 2,700-GALLON GASOLINE UST

FORMER PUMP ISLAND

VALLEY STREET

SEATTLE ROY ALOHA SHOPS SITE
PARCEL 4088803530

8TH AVENUE NORTH

AMERICAN LINEN SITE
700 DEXTER PROPERTY
700 DEXTER AVENUE NORTH
PARCEL 2249000285

ROY STREET

BLOCK 79 EAST SITE
BAYSIDE VOLVO PROPERTY
PARCEL 4088803565

FORMER 675-GALLON FUEL OIL UST

FORMER 300-GALLON WASTE OIL UST

FORMER 1,000-GALLON GASOLINE UST

FORMER BOILER ROOM

FORMER FURNACE

FORMER PAINT SPRAY

FORMER 900-GALLON HEATING OIL UST

BLOCK 79 EAST SITE
MAACO PROPERTY
PARCEL 4088803485

BLOCK 79 EAST SITE
DUCATI PROPERTY
PARCEL 4088803440

FORMER HYDRAULIC HOIST BANK

FORMER GREASING PIT

FORMER 160-GALLON WASTE OIL UST

FORMER BOILER ROOM

FORMER SUPPLY AND OIL STORAGE ROOM

FORMER MACHINE SHOP

BLOCK 79 EAST SITE
BUCA DI BEPPO PROPERTY
PARCEL 4088803435

9TH AVENUE NORTH

WESTLAKE AVENUE NORTH

731 WESTLAKE AVENUE NORTH
PARCEL 4088803510

707 WESTLAKE AVENUE NORTH
PARCEL 4088803500

900 ROY STREET
PARCEL 4088803495

AIBS BUILDING BLOCK 43 SITE
601 WESTLAKE AVENUE NORTH
PARCEL 4088803385

BLOCK 37 SITE
PARCEL 4088803235

J

J'

H

H'

B

B'

0 40 80

APPROXIMATE SCALE IN FEET

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PROJECT MANAGER: C.TOCHILIN

DRAWN BY: F.DIMALANTA

SEATTLE ROY ALOHA SHOPS PROPERTY
800 ALOHA STREET
SEATTLE, WASHINGTON
SOUNDEARTH PROJECT #: 1590-001

HISTORICAL FEATURES
SEATTLE ROY ALOHA SHOPS AND BLOCK 79 EAST SITES

FIGURE 2

FORMER 2,700-GALLON GASOLINE UST

FORMER PUMP ISLAND

BLOCK 79 EAST SITE MAACO PROPERTY PARCEL 4088803485

731 WESTLAKE AVENUE NORTH PARCEL 4088803510

SEATTLE CITY SOUTH LAKE UNION NAVAL RESERVE CENTER SITE

SEATTLE SOUTH LAKE UNION PARK SITE

N

707 WESTLAKE AVENUE NORTH PARCEL 4088803500

WESTLAKE AVENUE NORTH

H'

SEATTLE CITY PARKS NW SEAPORT SITE

SOUTH LAKE UNION PARK PARCEL 4088803230

SOUTH LAKE UNION PARK PARCEL 4088803175

8TH AVENUE NORTH

SEATTLE ROY ALOHA SHOPS SITE PARCEL 4088803530

BLOCK 79 EAST SITE DUCATI PROPERTY PARCEL 4088803440

FORMER 350-GALLON UST

H

B

900 ROY STREET PARCEL 4088803495

ESTIMATED EXTENT OF PETROLEUM HYDROCARBONS IN SOIL EXCEEDING MTCA METHOD A CLEANUP LEVELS

VALLEY STREET

ROY STREET

FORMER FUEL DISPENSER

FORMER 500-GALLON WASTE OIL UST

FORMER 5,000-GALLON GASOLINE UST

BLOCK 37 SITE PARCEL 4088803235

FORMER 3,000-GALLON GASOLINE UST

BLOCK 79 EAST SITE BUCA DI BEPPO PROPERTY PARCEL 4088803435

FORMER GASOLINE SERVICE STATION, AUTOMOTIVE REPAIR SHOP, AND MACHINE SHOP

FORMER GAS STATION BUILDING

BLOCK 37 SITE PARCEL 4088803240

FORMER UST (UNKNOWN SIZE/ CONTENTS)

B'

625 BOREN AVENUE NORTH PARCEL 4129320000

ROY STREET

FORMER UST LOCATIONS

FORMER 2,000-GALLON GASOLINE UST

BLOCK 37 SITE PARCEL 4088803345

TERRY AVENUE NORTH

SEATTLE DOT MERCER PARCELS 816 MERCER STREET PARCEL 2249000006

9TH AVENUE NORTH

FORMER SERVICE STATION BUILDING

BLOCK 37 SITE PARCEL 4088803355

FORMER 550-GALLON HEATING OIL UST

FORMER HYDRAULIC HOIST

BLOCK 37 SITE PARCEL 1987200015

AIBS BUILDING BLOCK 43 SITE 601 WESTLAKE AVENUE NORTH PARCEL 4088803385

FORMER FUEL DISPENSER

FORMER 10,000-GALLON DIESEL UST

FORMER 550-GALLON HEATING OIL UST

FORMER 550-GALLON WASTE OIL UST

FORMER 8,000-GALLON GASOLINE UST

FORMER FUEL ISLAND CANOPY

FORMER FUEL DISPENSER

FORMER 10,000-GALLON GASOLINE UST

ESTIMATED EXTENT OF PETROLEUM HYDROCARBONS IN SOIL EXCEEDING MTCA METHOD A CLEANUP LEVELS

MERCER STREET

LEGEND

- PROPERTY BOUNDARY
- PARCEL BOUNDARY
- HISTORICAL LAKE UNION SHORELINE
- UST — UNDERGROUND STORAGE TANK
- MTCA — WASHINGTON STATE MODEL TOXICS CONTROL ACT

850 REPUBLICAN STREET PARCEL 1988201480

901 MERCER STREET PARCEL 1983200065

951 MERCER STREET PARCEL 1983200196

535 TERRY AVENUE NORTH PARCEL 1983200150

0 40 80

APPROXIMATE SCALE IN FEET

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DRAWN BY: F.DIMALANTA

SEATTLE ROY ALOHA SHOPS PROPERTY
800 ALOHA STREET
SEATTLE, WASHINGTON
SOUNDEARTH PROJECT #: 1590-001

HISTORICAL FEATURES SURROUNDING PROPERTIES

FIGURE 3

12/5/2024

P:\1590 SEATTLE CITY LIGHT\1590-001 GW REMED ASSESSMENT-DESIGN\8TH AND ROY\TECHNICAL\CAD\2024\1590-001_2024_PP.DWG

LEGEND

- PROPERTY BOUNDARY
- PARCEL BOUNDARY
- SHALLOW WATER-BEARING ZONE WELL
- INTERMEDIATE A WATER-BEARING ZONE WELL
- INTERMEDIATE B WATER-BEARING ZONE WELL
- DEEP WATER-BEARING ZONE WELL
- HISTORICAL LAKE UNION SHORELINE

ALOHA STREET

810 DEXTER AVENUE NORTH
PARCEL 2249000330

VALLEY STREET

AMERICAN LINEN SITE
700 DEXTER PROPERTY
700 DEXTER AVENUE NORTH
PARCEL 2249000285

753 ROY STREET
PARCEL 2249000055

DEXTER AVENUE NORTH

ROY STREET

MERCER STREET

8TH AVENUE NORTH

9TH AVENUE NORTH

WESTLAKE AVENUE NORTH

SEATTLE ROY
ALOHA SHOPS SITE
PARCEL 4088803530

BLOCK 79 EAST SITE
BAYSIDE VOLVO
PROPERTY
PARCEL 4088803565

BLOCK 79 EAST SITE
MAACO PROPERTY
PARCEL 4088803485

BLOCK 79 EAST SITE
DUCATI PROPERTY
PARCEL 4088803440

BLOCK 79 EAST SITE
BUCA DI BEPPO
PROPERTY
PARCEL 4088803435

SEATTLE DOT MERCER PARCELS
PARCEL 2249000006

AIBS BUILDING BLOCK 43 SITE
601 WESTLAKE AVENUE NORTH
PARCEL 4088803385

731 WESTLAKE
AVENUE NORTH
PARCEL 4088803510

707 WESTLAKE AVENUE NORTH
PARCEL 4088803500

900 ROY STREET
PARCEL 4088803495

SOUTH LAKE UNION PARK
PARCEL 4088803600

SOUTH LAKE UNION PARK
PARCEL 4088803230

BLOCK 37 SITE
PARCEL 4088803235

BLOCK 37 SITE
PARCEL 4088803240

BLOCK 37 SITE
PARCEL 4088803345

BLOCK 37 SITE
PARCEL 4088803355

BLOCK 37 SITE
PARCEL 1987200015

MW-330 MW125 MW-124 MW-301 MW-102 MW-189 MW-190 MW-303 MW-304 MW112 R-MW5 MW-302 MW-138 MW-120 MW127 SCS-008 SCS-010 SCS-004 SCS-007 SCS-003 SCS-005 SCS-006 SCS-001 SCS-002 MW-9 MW-158A MW-157 MW-156 MW-121 MW-142 MW-143 MW-160 W-MW-02 MW104 MW-159 MW-107 MW-145R MW-144R MW-161 W-MW-01 R-MW6 MW-331 MW126 SCL-105 SCL-102 B79E-101 B79E-004 SCL-101 B79E-006 B79E-005 B79E-007 MW-309 MW-308 MW-122 B79E-103 B79E-102 MW-310 MW-311 MW108 FMW-141 MW109 MW-312 MW103 MW111 MW-110 MW-314 MW-313 MW-332 MW105 BB-8 MW-155 MW-148 SCL-MW-103 MW-317 MW-318 MW-319 MW-116 MW-322 MW-321 MW-320 MW-113 FMW-143 FMW-142 MW-323 MW-115 MW-324 MW-337 MW-338 J J' MW123 MW-339 MW-340 MW-327 MW-341 MW-328 H H' SMW-3 MW-209 MW-210 MW-211 MW-333 MW-334 FMW-140 B43-FMW-1 B43-FMW-6 VALLEY STREET MW-213 MW-214 MW-342 MW-343 MW-215 MW-329 B-37-1(GEI-1) B-37-4 B-37-3 MW-128 PH-1 B B' PH-2/AMW-1 B-37-6 B-37-5 PH-3 GEI-2 MW-45 MW-54 MWR-3 MWR-4 FMW-131 FMW-139 MWR-5 MWR-2 MWR-1 MW-50 MWR-6 B-37-7 B-37-8 B-37-9 ROY STREET WESTLAKE AVENUE NORTH MW-335 MW-336 B43-FMW-2 MW-325 MW-326 MW-315 MW-316 MW-351 FMW-129 HMW-12D HMW-1S MW119 HMW-1IB HMW-1D HMW-21S HMW-22S HMW-13D HMW-14D HMW-11S HMW-11IB HMW-10D HMW-10S HMW-2S HMW-2D HMW-2IB HMW-2IA MW-153 MW-154 MW-147 MW-146 MW-106 HMW-16IB HMW-17S HMW-18S HMW-3IA MW-345 MW-344 HMW-19S HMW-3D MW-346 HMW-20S MW-347 MW-350 HMW-9IA HMW-20IA MW-5IB HMW-9IB HMW-9D HMW-9S MW-348 HMW-6IA HMW-4IA MW-349 HMW-8IB HMW-6IB HMW-6D HMW-7IB HMW-15IB

N

0 50 100

APPROXIMATE SCALE IN FEET

SoundEarth Strategies
1011 SW Klickitat Way, Suite 212
Seattle, Washington 98134
Ph: 206.306.1900 Fax: 206.306.1907

PROJECT MANAGER:	C.TOCHILIN
DRAWN BY:	F.DIMALANTA

SEATTLE ROY ALOHA SHOPS PROPERTY
800 ALOHA STREET
SEATTLE, WASHINGTON
SOUNDEARTH PROJECT #: 1590-001

EXPLORATION LOCATION PLAN

FIGURE 4

12/5/2024

P:\1590 SEATTLE CITY LIGHT\1590-001 GW REMED ASSESSMENT-DESIGN\8TH AND ROY\TECHNICAL\CAD\2024\1590-001_2024_SHALLOW_CM.DWG

LEGEND

- PROPERTY BOUNDARY
- PARCEL BOUNDARY
- SHALLOW WATER-BEARING ZONE WELL
- 1-FOOT-INTERVAL GROUNDWATER ELEVATION CONTOUR LINE
- (24.22') GROUNDWATER ELEVATION (AUGUST 2, 2024)
- SHALLOW GROUNDWATER FLOW DIRECTION
- * GROUNDWATER ELEVATIONS MEASURED AT MONITORING WELLS SCL-101, SCL-102, AND SCS-001 WERE ANOMALOUS AND WERE NOT INCLUDED IN GROUNDWATER CONTOURING
- HISTORICAL LAKE UNION SHORELINE

ALOHA STREET

VALLEY STREET

ROY STREET

MERCER STREET

8TH AVENUE NORTH

9TH AVENUE NORTH

DEXTER AVENUE NORTH

WESTLAKE AVENUE NORTH

810 DEXTER AVENUE NORTH
PARCEL 2249000330

700 DEXTER PROPERTY
700 DEXTER AVENUE NORTH
PARCEL 2249000285

AMERICAN LINEN SITE
700 DEXTER PROPERTY
700 DEXTER AVENUE NORTH
PARCEL 2249000285

753 ROY STREET
PARCEL 2249000055

SEATTLE DOT MERCER PARCELS
PARCEL 2249000006

SEATTLE ROY
ALOHA SHOPS SITE
PARCEL 4088803530

BLOCK 79 EAST SITE
BAYSIDE VOLVO
PROPERTY
PARCEL 4088803565

BLOCK 79 EAST SITE
MAACO PROPERTY
PARCEL 4088803485

BLOCK 79 EAST SITE
DUCATI PROPERTY
PARCEL 4088803440

BLOCK 79 EAST SITE
BUCA DI BEPPO
PROPERTY
PARCEL 4088803435

731 WESTLAKE
AVENUE NORTH
PARCEL 4088803510

707 WESTLAKE AVENUE NORTH
PARCEL 4088803500

900 ROY STREET
PARCEL 4088803495

AIBS BUILDING BLOCK 43 SITE
601 WESTLAKE AVENUE NORTH
PARCEL 4088803385

SOUTH LAKE UNION PARK
PARCEL 4088803600

SOUTH LAKE UNION PARK
PARCEL 4088803230

BLOCK 37 SITE
PARCEL 4088803235

BLOCK 37 SITE
PARCEL 4088803240

BLOCK 37 SITE
PARCEL 4088803345

BLOCK 37 SITE
PARCEL 4088803355

BLOCK 37 SITE
PARCEL 1987200015

SCS-008 (21.00')
SCS-010 (21.99')
SCS-004 (21.55')
SCS-007 (21.67')
SCS-003 (21.62')
SCS-005 (21.99')
SCS-006 (21.71')
SCS-001* (20.76')
SCS-002 (21.74')
SCL-105 (19.95')
SCL-102* (22.04')
SCL-101* (22.01')
B79E-004
B79E-005
B79E-006
B79E-007
SCL-MW-103
MW125
MW-9 (24.22')
MW-301
MW-310
MW-121
MW-159
MW-312 (21.05')
MW-313
MW-332
MW-320 (19.52')
FMW-143
B43-FMW-1
B43-FMW-6
B43-FMW-2
R-MW5
R-MW6
MW-154
MW-155
HMW-17S
HMW-18S
HMW-19S
HMW-20S
HMW-9IB
HMW-2S
HMW-1IB
HMW-21S
HMW-22S
HMW-11S
HMW-10S
MW-337
MW-339
MW-209
MW-210
MW-211
SMW-3
MW-213
MW-214
MW-215
B-37-4
B-37-3
PH-1
B-37-6
PH-2/AMW-1
B-37-5
PH-3
MW-45
MW-54
MWR-3
MWR-4
FMW-139
MWR-5
MWR-2
MWR-1
MW-50
MWR-6

210
220
230
240
200

0 50 100
APPROXIMATE SCALE IN FEET

N

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SEATTLE ROY ALOHA SHOPS PROPERTY
800 ALOHA STREET
SEATTLE, WASHINGTON
SOUNDEARTH PROJECT #: 1590-001

GROUNDWATER CONTOUR MAP
SHALLOW WATER-BEARING ZONE
AUGUST 2, 2024

FIGURE 5

11/26/2024

P:\1590 SEATTLE CITY LIGHT\1590-001 GW REMED ASSESSMENT-DESIGN\8TH AND ROY\TECHNICAL\CAD\2024\1590-001_2024_INT-A_CM.DWG

LEGEND

- PROPERTY BOUNDARY
- PARCEL BOUNDARY
- INTERMEDIATE A WATER-BEARING ZONE WELL
- 1-FOOT-INTERVAL GROUNDWATER ELEVATION CONTOUR LINE
- (24.37') GROUNDWATER ELEVATION (AUGUST 2, 2024)
- INTERMEDIATE A GROUNDWATER FLOW DIRECTION
- HISTORICAL LAKE UNION SHORELINE

ALOHA STREET

810 DEXTER AVENUE NORTH
PARCEL 2249000330

SEATTLE ROY ALOHA SHOPS SITE
PARCEL 4088803530

BLOCK 79 EAST SITE
BAYSIDE VOLVO PROPERTY
PARCEL 4088803565

SOUTH LAKE UNION PARK
PARCEL 4088803600

8TH AVENUE NORTH

9TH AVENUE NORTH

WESTLAKE AVENUE NORTH

VALLEY STREET

ROY STREET

MERCER STREET

DEXTER AVENUE NORTH

WESTLAKE AVENUE NORTH

MW-330
MW-189
MW-302
MW-127 (21.62')
MW-120 (22.36')
MW-156 (22.37')
MW-142 (22.67')
MW-107 (24.87')
MW-144R (23.03')
MW-331 (19.43')
B79E-101
MW-308 (19.03')
B79E-103
MW-317
B79E-102
MW108 (17.92')
MW-116
MW109 (18.64')
MW-321
MW-110
MW-115
MW-327
FMW-142
MW-333
MW-146
HMW-3IA
MW-344
HMW-9IA
HMW-20IA
HMW-6IA
HMW-4IA
BB-8
MW-351
MW119
HMW-2IA
MW-325
MW-315
B-37-1(GEI-1)
B-37-7
B-37-8
B-37-9

BLOCK 79 EAST SITE
DUCATI PROPERTY
PARCEL 4088803440

BLOCK 79 EAST SITE
BUCA DI BEPPO PROPERTY
PARCEL 4088803435

BLOCK 79 EAST SITE
MAACO PROPERTY
PARCEL 4088803485

AMERICAN LINEN SITE
700 DEXTER PROPERTY
700 DEXTER AVENUE NORTH
PARCEL 2249000285

753 ROY STREET
PARCEL 2249000055

SEATTLE DOT MERCER PARCELS
PARCEL 2249000006

731 WESTLAKE AVENUE NORTH
PARCEL 4088803510

707 WESTLAKE AVENUE NORTH
PARCEL 4088803500

900 ROY STREET
PARCEL 4088803495

AIBS BUILDING BLOCK 43 SITE
601 WESTLAKE AVENUE NORTH
PARCEL 4088803385

SOUTH LAKE UNION PARK
PARCEL 4088803230

BLOCK 37 SITE
PARCEL 4088803235

BLOCK 37 SITE
PARCEL 4088803240

BLOCK 37 SITE
PARCEL 4088803345

BLOCK 37 SITE
PARCEL 4088803355

BLOCK 37 SITE
PARCEL 1987200015

N

0 50 100
APPROXIMATE SCALE IN FEET

SoundEarth Strategies
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800 ALOHA STREET
SEATTLE, WASHINGTON
SOUNDEARTH PROJECT #: 1590-001

GROUNDWATER CONTOUR MAP
INTERMEDIATE A WATER-BEARING ZONE
AUGUST 2, 2024
FIGURE 6

12/5/2024

P:\1590 SEATTLE CITY LIGHT\1590-001 GW REMED ASSESSMENT-DESIGN\8TH AND ROY\TECHNICAL\CAD\2024\1590-001_2024_INT-B_CM.DWG

LEGEND

- PROPERTY BOUNDARY
- PARCEL BOUNDARY
- INTERMEDIATE B WATER-BEARING ZONE WELL
- 1-FOOT-INTERVAL GROUNDWATER ELEVATION CONTOUR LINE
- (21.88') GROUNDWATER ELEVATION (AUGUST 2, 2024)
- INTERMEDIATE B GROUNDWATER FLOW DIRECTION
- HISTORICAL LAKE UNION SHORELINE

ALOHA STREET

810 DEXTER AVENUE NORTH
PARCEL 2249000330

SEATTLE ROY ALOHA SHOPS SITE
PARCEL 4088803530

BLOCK 79 EAST SITE
BAYSIDE VOLVO PROPERTY
PARCEL 4088803565

BLOCK 79 EAST SITE
MAACO PROPERTY
PARCEL 4088803485

BLOCK 79 EAST SITE
DUCATI PROPERTY
PARCEL 4088803440

BLOCK 79 EAST SITE
BUCA DI BEPPO PROPERTY
PARCEL 4088803435

8TH AVENUE NORTH

9TH AVENUE NORTH

SOUTH LAKE UNION PARK
PARCEL 4088803600

SOUTH LAKE UNION PARK
PARCEL 4088803230

731 WESTLAKE AVENUE NORTH
PARCEL 4088803510

707 WESTLAKE AVENUE NORTH
PARCEL 4088803500

900 ROY STREET
PARCEL 4088803495

WESTLAKE AVENUE NORTH

VALLEY STREET

ROY STREET

MERCER STREET

DEXTER AVENUE NORTH

AMERICAN LINEN SITE
700 DEXTER PROPERTY
700 DEXTER AVENUE NORTH
PARCEL 2249000285

753 ROY STREET
PARCEL 2249000055

SEATTLE DOT MERCER PARCELS
PARCEL 2249000006

AIBS BUILDING BLOCK 43 SITE
601 WESTLAKE AVENUE NORTH
PARCEL 4088803385

BLOCK 37 SITE
PARCEL 4088803235

BLOCK 37 SITE
PARCEL 4088803240

BLOCK 37 SITE
PARCEL 4088803345

BLOCK 37 SITE
PARCEL 4088803355

BLOCK 37 SITE
PARCEL 1987200015

MW126 (18.20')
MW-309 (19.07')
MW-318 (18.33')
MW-311 (19.14')
MW-322 (18.32')
FMW-141 (18.52')
MW111 (18.52')
MW-314
MW-338
MW-340
MW-334
MW-335
MW-157 (20.87')
MW-143 (21.88')
MW-145R
W-MW-01
W-MW-02
MW-190
MW-303
MW112
MW-147
MW-148
HMW-16IB
MW-345
MW-346
MW-347
MW-350
MW-5IB
MW-348
HMW-9S
MW-349
HMW-8IB
HMW-6IB
HMW-7IB
HMW-15IB
MW-316
HMW-2IB
HMW-1S
HMW-11IB

19.0
20.0
21.0

N

0 50 100
APPROXIMATE SCALE IN FEET

SoundEarth Strategies
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Seattle, Washington 98134
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PROJECT MANAGER: C.TOCHILIN
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SEATTLE ROY ALOHA SHOPS PROPERTY
800 ALOHA STREET
SEATTLE, WASHINGTON
SOUNDEARTH PROJECT #: 1590-001

GROUNDWATER CONTOUR MAP
INTERMEDIATE B WATER-BEARING ZONE
AUGUST 2, 2024
FIGURE 7

12/5/2024

P:\1590 SEATTLE CITY LIGHT\1590-001 GW REMED ASSESSMENT-DESIGN\8TH AND ROY\TECHNICAL\CAD\2024\1590-001_2024_DEEP_CM.DWG

LEGEND

- PROPERTY BOUNDARY
- PARCEL BOUNDARY
- DEEP WATER-BEARING ZONE WELL
- 0.1-FOOT-INTERVAL GROUNDWATER ELEVATION CONTOUR LINE
- (18.32') GROUNDWATER ELEVATION (AUGUST 2, 2024)
- DEEP GROUNDWATER FLOW DIRECTION
- HISTORICAL LAKE UNION SHORELINE

ALOHA STREET

810 DEXTER AVENUE NORTH
PARCEL 2249000330

SEATTLE ROY
ALOHA SHOPS SITE
PARCEL 4088803530

BLOCK 79 EAST SITE
BAYSIDE VOLVO
PROPERTY
PARCEL 4088803565

BLOCK 79 EAST SITE
MAACO PROPERTY
PARCEL 4088803485

BLOCK 79 EAST SITE
DUCATI PROPERTY
PARCEL 4088803440

BLOCK 79 EAST SITE
BUCA DI BEPPO
PROPERTY
PARCEL 4088803435

8TH AVENUE NORTH

9TH AVENUE NORTH

SOUTH LAKE UNION PARK
PARCEL 4088803600

731 WESTLAKE
AVENUE NORTH
PARCEL 4088803510

WESTLAKE AVENUE NORTH

707 WESTLAKE AVENUE NORTH
PARCEL 4088803500

900 ROY STREET
PARCEL 4088803495

SOUTH LAKE UNION PARK
PARCEL 4088803230

VALLEY STREET

ROY STREET

MERCER STREET

DEXTER AVENUE NORTH

AMERICAN LINEN SITE
700 DEXTER PROPERTY
700 DEXTER AVENUE NORTH
PARCEL 2249000285

753 ROY STREET
PARCEL 2249000055

SEATTLE DOT MERCER PARCELS
PARCEL 2249000006

AIBS BUILDING BLOCK 43 SITE
601 WESTLAKE AVENUE NORTH
PARCEL 4088803385

BLOCK 37 SITE
PARCEL 4088803235

BLOCK 37 SITE
PARCEL 4088803240

BLOCK 37 SITE
PARCEL 4088803345

BLOCK 37 SITE
PARCEL 4088803355

BLOCK 37 SITE
PARCEL 1987200015

MW-122 (18.18')
MW-158A (18.09')
MW-319
MW-124
MW-102
MW-304
MW-160 (18.05')
MW104 (18.11')
MW-161 (17.99')
MW-138
MW105
MW-153
MW-106
HMW-3D
HMW-9D
HMW-6D
HMW-2D
HMW-13D
HMW-1D
HMW-10D
HMW-14D
FMW-129
HMW-12D
MW-326
MW103 (18.12')
MW-113 (18.32')
MW-323 (18.20')
FMW-140
MW-324
(18.23') MW123
MW-341 (18.00')
MW-328 (18.01')
MW-342
MW-343
(17.97') MW-329
MW-128 (17.93')
GEI-2
FMW-131
MW-336
18.0
18.1
18.2
18.3

N

0 50 100
APPROXIMATE SCALE IN FEET

SoundEarth Strategies
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Seattle, Washington 98134
Ph: 206.306.1900 Fax: 206.306.1907

PROJECT MANAGER: C.TOCHILIN
DRAWN BY: F.DIMALANTA

SEATTLE ROY ALOHA SHOPS PROPERTY
800 ALOHA STREET
SEATTLE, WASHINGTON
SOUNDEARTH PROJECT #: 1590-001

GROUNDWATER CONTOUR MAP
DEEP WATER-BEARING ZONE
AUGUST 2, 2024

FIGURE 8

12/5/2024

P:\1590 SEATTLE CITY LIGHT\1590-001 GW REMED ASSESSMENT-DESIGN\8TH AND ROY\TECHNICAL\CAD\20241590-001_2024_SHALLOW.DWG

LEGEND

- PROPERTY BOUNDARY
- PARCEL BOUNDARY
- SHALLOW WATER-BEARING ZONE WELL
- DENOTES BENZENE NOT DETECTED AT CONCENTRATION ABOVE LABORATORY REPORTING LIMIT (AUGUST 2024)
- DENOTES BENZENE DETECTED AT CONCENTRATION ABOVE LABORATORY REPORTING LIMIT BUT BELOW MTCA METHOD A CLEANUP LEVEL (AUGUST 2024)
- DENOTES BENZENE DETECTED AT CONCENTRATION EXCEEDING MTCA METHOD A CLEANUP LEVEL (AUGUST 2024)
- DENOTES GRPH DETECTED AT CONCENTRATION EXCEEDING MTCA METHOD A CLEANUP LEVEL (AUGUST 2024)
- HISTORICAL LAKE UNION SHORELINE
- GRPH GASOLINE-RANGE PETROLEUM HYDROCARBONS
- MTCA WASHINGTON STATE MODEL TOXICS CONTROL ACT

Well ID	Date Sampled	Analytical Results (micrograms per liter) GRPH	Benzene	Toluene	Ethylbenzene	Total Xylenes
Roy Street Shops Property						
SCS-001	08/06/24	90.6	0.208	<0.500	<0.500	<1.50
SCS-002	08/12/24	**2,240**	**7.24**	<5.00	8.42	<10.0
SCS-003	08/07/24	376	0.221	<0.500	0.551	<1.50
SCS-004	08/07/24	**3,630**	0.302	0.924	2.33	<1.50
SCS-005	08/07/24	<50.0	<0.200	<0.500	<0.500	<1.50
SCS-006	08/07/24	**5,310**	**45.2**	2.84	4.50	4.15
SCS-007	08/07/24	**3,710**	3.44	1.15	8.68	2.27
SCS-008	08/07/24	<50.0	<0.200	<0.500	<0.500	<1.50
SCS-010	08/07/24	<50.0	<0.200	<0.500	<0.500	<1.50
8th Avenue North Right-of-Way						
EAN-009/MW-9	08/06/24	<50.0	<0.200	<0.500	<0.500	<1.50
Alley Between Roy Street Shops Property and Block 79 East Property						
SCL-101	08/07/24	**1,670**	3.67	<0.500	<0.500	<1.50
SCL-102	08/07/24	**6,590**	**18.7**	5.44	243	12.2
SCL-105	08/07/24	**5,400**	**84.0**	8.22	15.5	13.8
MTCA Method A Cleanup Level		**800**	**5**	**1,000**	**700**	**1,000**

ALOHA STREET
VALLEY STREET
ROY STREET
MERCER STREET
8TH AVENUE NORTH
9TH AVENUE NORTH
DEXTER AVENUE NORTH
WESTLAKE AVENUE NORTH

810 DEXTER AVENUE NORTH PARCEL 2249000330
700 DEXTER AVENUE NORTH PARCEL 2249000285
753 ROY STREET PARCEL 2249000055
SEATTLE DOT MERCER PARCELS PARCEL 2249000006
SEATTLE ROY ALOHA SHOPS SITE PARCEL 4088803530
BLOCK 79 EAST SITE BAYSIDE VOLVO PROPERTY PARCEL 4088803565
BLOCK 79 EAST SITE MAACO PROPERTY PARCEL 4088803485
BLOCK 79 EAST SITE DUCATI PROPERTY PARCEL 4088803440
BLOCK 79 EAST SITE BUCA DI BEPPO PROPERTY PARCEL 4088803435
731 WESTLAKE AVENUE NORTH PARCEL 4088803510
707 WESTLAKE AVENUE NORTH PARCEL 4088803500
900 ROY STREET PARCEL 4088803495
AIBS BUILDING BLOCK 43 SITE 601 WESTLAKE AVENUE NORTH PARCEL 4088803385
SOUTH LAKE UNION PARK PARCEL 4088803600
SOUTH LAKE UNION PARK PARCEL 4088803230
BLOCK 37 SITE PARCEL 4088803235
BLOCK 37 SITE PARCEL 4088803240
BLOCK 37 SITE PARCEL 4088803345
BLOCK 37 SITE PARCEL 4088803355
BLOCK 37 SITE PARCEL 1987200015

SCS-008, SCS-010, SCS-004, SCS-007, SCS-003, SCS-005, SCS-006, SCS-001, SCS-002
SCL-105, SCL-102, SCL-101, SCL-MW-103
B79E-004, B79E-006, B79E-005, B79E-007
MW125, MW-9, MW-301, MW-310, MW-121, MW-159, MW-312, MW-313, MW-332, MW-320, FMW-143, MW-337
R-MW5, R-MW6
B43-FMW-1, B43-FMW-6, B43-FMW-2
MW-154, MW-155
HMW-17S, HMW-18S, HMW-19S, HMW-20S, HMW-9IB, HMW-10S, HMW-2S, HMW-1IB, HMW-21S, HMW-22S, HMW-11S
MW-339, SMW-3, MW-209, MW-210, MW-211
MW-213, MW-214, MW-215
B-37-4, B-37-3, PH-1, B-37-6, PH-2/AMW-1, B-37-5, PH-3
MW-45, MW-54, MWR-3, MWR-4, FMW-139, MWR-5, MWR-2, MWR-1, MW-50, MWR-6

0 50 100
APPROXIMATE SCALE IN FEET

N

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SEATTLE ROY ALOHA SHOPS PROPERTY
800 ALOHA STREET
SEATTLE, WASHINGTON
SOUNDEARTH PROJECT #: 1590-001

GROUNDWATER ANALYTICAL RESULTS
SHALLOW WATER-BEARING ZONE
AUGUST 2024

FIGURE 9

11/26/2024

P:\1590 SEATTLE CITY LIGHT\1590-001 GW REMED ASSESSMENT-DESIGN\8TH AND ROY\TECHNICAL\CAD\20241590-001_2024_INT-A.DWG

LEGEND

- PROPERTY BOUNDARY
- PARCEL BOUNDARY
- INTERMEDIATE A WATER-BEARING ZONE WELL
- DENOTES BENZENE NOT DETECTED AT CONCENTRATION ABOVE LABORATORY REPORTING LIMIT (AUGUST 2024)
- DENOTES BENZENE DETECTED AT CONCENTRATION ABOVE LABORATORY REPORTING LIMIT BUT BELOW MTCA METHOD A CLEANUP LEVEL (AUGUST 2024)
- HISTORICAL LAKE UNION SHORELINE
- GRPH — GASOLINE-RANGE PETROLEUM HYDROCARBONS
- MTCA — WASHINGTON STATE MODEL TOXICS CONTROL ACT

Well ID	Date Sampled	Analytical Results (micrograms per liter) GRPH	Benzene	Toluene	Ethylbenzene	Total XyleneS
8th Avenue North Right-of-Way						
MW-107	08/05/24	<50.0	<0.200	<0.500	<0.500	<1.50
MW-120	08/08/24	86.2	<0.200	<0.500	<0.500	<1.50
MW127	08/08/24	<50.0	<0.200	<0.500	<0.500	<1.50
MW-142	08/05/24	53.9	0.258	<0.500	<0.0212	<1.50
MW-144R	08/05/24	<50.0	<0.200	<0.500	<0.500	<1.50
MW-156	08/05/24	453	<0.200	<0.500	<0.500	<3.82
Alley Between Roy Street Shops Property and Block 79 East Property						
MW108	08/06/24	592	3.73	<0.500	<0.500	<1.50
MW109	08/06/24	<50.0	<0.200	<0.500	<0.500	<1.50
MW-308	08/07/24	<50.0	0.631	<0.500	<0.500	<1.50
MW-331	08/07/24	<50.0	<0.200	<0.500	<0.500	<1.50
MTCA Method A Cleanup Level		**800**	**5**	**1,000**	**700**	**1,000**

ALOHA STREET
VALLEY STREET
ROY STREET
MERCER STREET
8TH AVENUE NORTH
9TH AVENUE NORTH
DEXTER AVENUE NORTH
WESTLAKE AVENUE NORTH

810 DEXTER AVENUE NORTH PARCEL 2249000330
SOUTH LAKE UNION PARK PARCEL 4088803600
BLOCK 79 EAST SITE BAYSIDE VOLVO PROPERTY PARCEL 4088803565
BLOCK 79 EAST SITE MAACO PROPERTY PARCEL 4088803485
BLOCK 79 EAST SITE DUCATI PROPERTY PARCEL 4088803440
BLOCK 79 EAST SITE BUCA DI BEPPO PROPERTY PARCEL 4088803435
SEATTLE ROY ALOHA SHOPS SITE PARCEL 4088803530
731 WESTLAKE AVENUE NORTH PARCEL 4088803510
707 WESTLAKE AVENUE NORTH PARCEL 4088803500
900 ROY STREET PARCEL 4088803495
AMERICAN LINEN SITE 700 DEXTER PROPERTY 700 DEXTER AVENUE NORTH PARCEL 2249000285
753 ROY STREET PARCEL 2249000055
SEATTLE DOT MERCER PARCELS PARCEL 2249000006
AIBS BUILDING BLOCK 43 SITE 601 WESTLAKE AVENUE NORTH PARCEL 4088803385
SOUTH LAKE UNION PARK PARCEL 4088803230
BLOCK 37 SITE PARCEL 4088803235
BLOCK 37 SITE PARCEL 4088803240
BLOCK 37 SITE PARCEL 4088803345
BLOCK 37 SITE PARCEL 4088803355
BLOCK 37 SITE PARCEL 1987200015

MW-331, MW127, B79E-101, MW-308, MW-120, B79E-103, MW-330, MW-317, MW-189, B79E-102, MW-156, MW108, MW-116, MW-142, MW109, MW-321, FMW-142, MW-333, MW-327, MW-302, MW-107, MW-144R, MW-110, MW-115, BB-8, MW-351, MW-146, HMW-3IA, MW-344, HMW-9IA, HMW-20IA, HMW-2IA, MW119, HMW-6IA, HMW-4IA, MW-325, MW-315, B-37-1(GEI-1), B-37-7, B-37-8, B-37-9

N

0 50 100
APPROXIMATE SCALE IN FEET

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800 ALOHA STREET
SEATTLE, WASHINGTON
SOUNDEARTH PROJECT #: 1590-001

GROUNDWATER ANALYTICAL RESULTS
INTERMEDIATE A WATER-BEARING ZONE
AUGUST 2024
FIGURE 10

11/26/2024

P:\1590 SEATTLE CITY LIGHT\1590-001 GW REMED ASSESSMENT-DESIGN\8TH AND ROY\TECHNICAL\CAD\20241590-001_2024_INT-B.DWG

LEGEND

- PROPERTY BOUNDARY
- PARCEL BOUNDARY
- INTERMEDIATE B WATER-BEARING ZONE WELL
- DENOTES BENZENE NOT DETECTED AT CONCENTRATION ABOVE LABORATORY REPORTING LIMIT (AUGUST 2024)
- DENOTES BENZENE DETECTED AT CONCENTRATION ABOVE LABORATORY REPORTING LIMIT BUT BELOW MTCA METHOD A CLEANUP LEVEL (AUGUST 2024)
- DENOTES BENZENE DETECTED AT CONCENTRATION EXCEEDING MTCA METHOD A CLEANUP LEVEL (AUGUST 2024)
- DENOTES GRPH DETECTED AT CONCENTRATION EXCEEDING MTCA METHOD A CLEANUP LEVEL (AUGUST 2024)
- HISTORICAL LAKE UNION SHORELINE
- GRPH — GASOLINE-RANGE PETROLEUM HYDROCARBONS
- MTCA — WASHINGTON STATE MODEL TOXICS CONTROL ACT

Well ID	Date Sampled	Analytical Results (micrograms per liter) GRPH	Benzene	Toluene	Ethylbenzene	Total Xylenes
8th Avenue North Right-of-Way						
MW-143	08/08/24	235	<0.200	<0.500	<0.500	<1.50
9th Avenue North Right-of-Way						
MW-318	08/06/24	74.7	**40.9**	<0.500	<0.500	<1.50
MW-322	08/06/24	**922**	2.28	<0.500	<0.500	<1.50
Alley Between Roy Street Shops Property and Block 79 East Property						
FMW-141	08/07/24	<50.0	0.320	<0.500	<0.500	<1.50
MW111	08/06/24	<50.0	<0.200	<0.500	<0.500	<1.50
MW126	08/07/24	<50.0	<0.200	<0.500	<0.500	<1.50
MW-309	08/07/24	800	<0.200	<0.500	<0.500	<1.50
MW-311	08/06/24	<50.0	<0.200	<0.500	<0.500	<1.50
MTCA Method A Cleanup Level		**800**	**5**	**1,000**	**700**	**1,000**

ALOHA STREET
VALLEY STREET
ROY STREET
MERCER STREET
8TH AVENUE NORTH
9TH AVENUE NORTH
DEXTER AVENUE NORTH
WESTLAKE AVENUE NORTH

810 DEXTER AVENUE NORTH PARCEL 2249000330
SEATTLE ROY ALOHA SHOPS SITE PARCEL 4088803530
BLOCK 79 EAST SITE BAYSIDE VOLVO PROPERTY PARCEL 4088803565
BLOCK 79 EAST SITE MAACO PROPERTY PARCEL 4088803485
BLOCK 79 EAST SITE DUCATI PROPERTY PARCEL 4088803440
BLOCK 79 EAST SITE BUCA DI BEPPO PROPERTY PARCEL 4088803435
AMERICAN LINEN SITE 700 DEXTER PROPERTY 700 DEXTER AVENUE NORTH PARCEL 2249000285
753 ROY STREET PARCEL 2249000055
SEATTLE DOT MERCER PARCELS PARCEL 2249000006
731 WESTLAKE AVENUE NORTH PARCEL 4088803510
707 WESTLAKE AVENUE NORTH PARCEL 4088803500
900 ROY STREET PARCEL 4088803495
SOUTH LAKE UNION PARK PARCEL 4088803600
SOUTH LAKE UNION PARK PARCEL 4088803230
AIBS BUILDING BLOCK 43 SITE 601 WESTLAKE AVENUE NORTH PARCEL 4088803385
BLOCK 37 SITE PARCEL 4088803235
BLOCK 37 SITE PARCEL 4088803240
BLOCK 37 SITE PARCEL 4088803345
BLOCK 37 SITE PARCEL 4088803355
BLOCK 37 SITE PARCEL 1987200015

MW-126, MW-309, MW-318, MW-311, MW-157, MW-190, MW-303, MW-143, FMW-141, MW-322, MW-112, W-MW-02, MW-145R, MW111, W-MW-01, MW-314, MW-338, MW-340, MW-334, MW-335, MW-147, HMW-16IB, MW-345, MW-346, MW-347, MW-350, MW-5IB, MW-9S, MW-348, MW-349, HMW-8IB, HMW-6IB, HMW-7IB, HMW-15IB, MW-316, MW-148, HMW-1S, HMW-2IB, HMW-11IB

0 50 100
APPROXIMATE SCALE IN FEET

N

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SEATTLE, WASHINGTON
SOUNDEARTH PROJECT #: 1590-001

GROUNDWATER ANALYTICAL RESULTS
INTERMEDIATE B WATER-BEARING ZONE
AUGUST 2024
FIGURE 11

12/5/2024

P:\1590 SEATTLE CITY LIGHT\1590-001 GW REMED ASSESSMENT-DESIGN\8TH AND ROY\TECHNICAL\CAD\2024\1590-001_2024_DEEP.DWG

LEGEND

- PROPERTY BOUNDARY
- PARCEL BOUNDARY
- DEEP WATER-BEARING ZONE WELL
- DENOTES BENZENE NOT DETECTED AT CONCENTRATION ABOVE LABORATORY REPORTING LIMIT (AUGUST 2024)
- DENOTES BENZENE DETECTED AT CONCENTRATION ABOVE LABORATORY REPORTING LIMIT BUT BELOW MTCA METHOD A CLEANUP LEVEL (AUGUST 2024)
- DENOTES BENZENE DETECTED AT CONCENTRATION EXCEEDING MTCA METHOD A CLEANUP LEVEL (AUGUST 2024)
- DENOTES WELL WAS NOT SAMPLED IN AUGUST 2024 BECAUSE BENZENE WAS NOT DETECTED DURING FOUR SAMPLING EVENTS PERFORMED BETWEEN MAY 2022 AND NOVEMBER 2023
- HISTORICAL LAKE UNION SHORELINE
- GRPH — GASOLINE-RANGE PETROLEUM HYDROCARBONS
- MTCA — WASHINGTON STATE MODEL TOXICS CONTROL ACT

Well ID	Date Sampled	Analytical Results (micrograms per liter) GRPH	Benzene	Toluene	Ethylbenzene	Total Xylenes
8th Avenue North Right-of-Way						
MW104	08/08/24	<50.0	<0.200	<0.500	<0.500	<1.50
MW-158A	08/05/24	<50.0	<0.200	<0.500	<0.500	<1.50
MW-160	08/05/24	<50.0	<0.200	<0.500	<0.500	<1.50
MW-161	08/05/24	<50.0	<0.200	<0.500	<0.500	<1.50
9th Avenue North Right-of-Way						
MW-323	08/05/24	476	<0.200	<0.500	<0.500	<1.50
Alley Between Roy Street Shops Property and Block 79 East Property						
MW103	08/06/24	<50.0	<0.200	<0.500	<0.500	<1.50
Westlake Avenue North Right-of-Way						
MW-128	08/05/24	<50.0	11.4	<0.500	<0.500	<1.50
MW-328	08/05/24	<50.0	<0.200	<0.500	<0.500	<1.50
MW-329	08/05/24	<50.0	0.203	<0.500	<0.500	<1.50
MW-341	08/05/24	53.1	19.3	<0.500	<0.500	<1.50
MTCA Method A Cleanup Level		**800**	**5**	**1,000**	**700**	**1,000**

ALOHA STREET
VALLEY STREET
ROY STREET
MERCER STREET
8TH AVENUE NORTH
9TH AVENUE NORTH
DEXTER AVENUE NORTH
WESTLAKE AVENUE NORTH

810 DEXTER AVENUE NORTH PARCEL 2249000330
SEATTLE ROY ALOHA SHOPS SITE PARCEL 4088803530
BLOCK 79 EAST SITE BAYSIDE VOLVO PROPERTY PARCEL 4088803565
BLOCK 79 EAST SITE MAACO PROPERTY PARCEL 4088803485
BLOCK 79 EAST SITE DUCATI PROPERTY PARCEL 4088803440
BLOCK 79 EAST SITE BUCA DI BEPPO PROPERTY PARCEL 4088803435
AMERICAN LINEN SITE 700 DEXTER PROPERTY 700 DEXTER AVENUE NORTH PARCEL 2249000285
753 ROY STREET PARCEL 2249000055
SEATTLE DOT MERCER PARCELS PARCEL 2249000006
731 WESTLAKE AVENUE NORTH PARCEL 4088803510
707 WESTLAKE AVENUE NORTH PARCEL 4088803500
900 ROY STREET PARCEL 4088803495
AIBS BUILDING BLOCK 43 SITE 601 WESTLAKE AVENUE NORTH PARCEL 4088803385
SOUTH LAKE UNION PARK PARCEL 4088803600
SOUTH LAKE UNION PARK PARCEL 4088803230
BLOCK 37 SITE PARCEL 4088803235
BLOCK 37 SITE PARCEL 4088803240
BLOCK 37 SITE PARCEL 4088803345
BLOCK 37 SITE PARCEL 4088803355
BLOCK 37 SITE PARCEL 1987200015

MW-102, MW-103, MW-104, MW-105, MW-106, MW-113, MW-122, MW-123, MW-124, MW-128, MW-129, MW-138, MW-140, MW-153, MW-158A, MW-160, MW-161, MW-304, MW-319, MW-323, MW-324, MW-326, MW-328, MW-329, MW-336, MW-341, MW-342, MW-343, FMW-129, FMW-131, FMW-140, GEI-2, HMW-1D, HMW-2D, HMW-3D, HMW-6D, HMW-9D, HMW-10D, HMW-12D, HMW-13D, HMW-14D

N

0 50 100
APPROXIMATE SCALE IN FEET

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SOUNDEARTH PROJECT #: 1590-001

GROUNDWATER ANALYTICAL RESULTS
DEEP WATER-BEARING ZONE
AUGUST 2024

FIGURE 12

12/11/2024

P:\1590 SEATTLE CITY LIGHT\1590-001 GW REMED ASSESSMENT-DESIGN\8TH AND ROY\TECHNICAL\CAD\2024\1590-001_2024_SCTN_REV.DWG

B
WEST

B'
EAST

ELEVATION (FEET, NAVD 88)

100'
75'
50'
25'
0'
-25'
-50'
-75'
-100'

DEXTER AVENUE NORTH

8TH AVENUE NORTH

ALLEY

9TH AVENUE NORTH

ROY STREET

WESTLAKE AVENUE NORTH

TERRY AVENUE NORTH

700 DEXTER PROPERTY

SEATTLE ROY ALOHA SHOPS

BLOCK 79 EAST

FORMER GASOLINE STATION AND AUTO REPAIR SHOP
900 ROY STREET

FORMER AUTO REPAIR AND FUELING FACILITIES
AIBS BUILDING
BLOCK 43

SEWER (TYP)

FORMER GASOLINE STATIONS AND AUTO REPAIR SHOP
BLOCK 37

625 BOREN AVENUE NORTH

AQUITARD ZONE

AQUITARD ZONE

AQUITARD ZONE

EXTENT OF BENZENE PLUME

EXTENT OF CVOC PLUME

VADOSE ZONE AND SHALLOW ZONE

INTERMEDIATE ZONE

DEEP ZONE

LEGEND

- GROUND SURFACE
- WATER BEARING ZONE BOUNDARY
- BENZENE PLUME LIMITS
- CVOC PLUME LIMITS
- AQUITARD ZONE
- POTENTIAL VERTICAL MIGRATION OF PETROLEUM HYDROCARBONS

DEFINITIONS

CVOC - CHLORINATED VOLATILE ORGANIC COMPOUND

? - QUERIED WHERE UNCERTAIN

VERTICAL 0 25 50

HORIZONTAL 0 50 100

APPROXIMATE SCALE IN FEET

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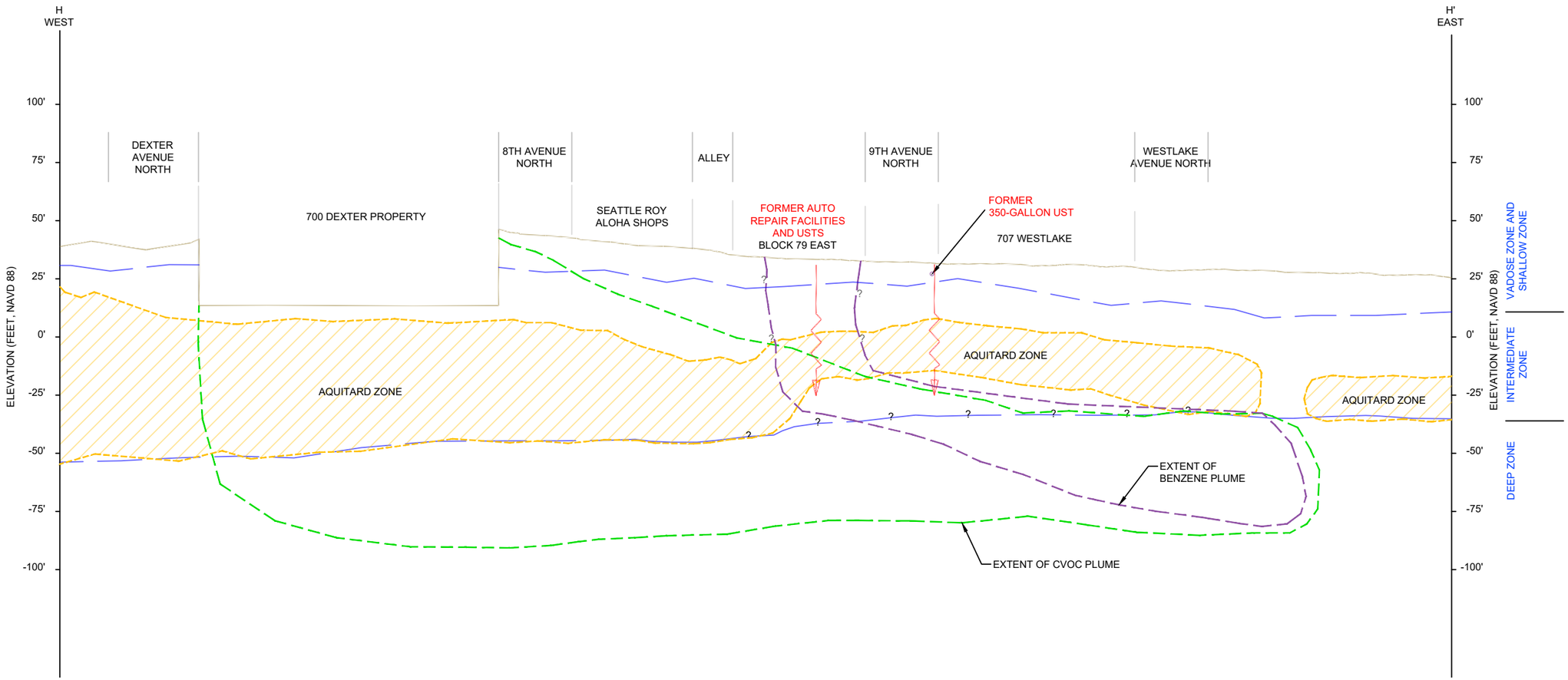
800 ALOHA STREET
SEATTLE, WASHINGTON
SOUNDEARTH PROJECT #: 1590-001

CONCEPTUAL SITE MODEL
CROSS SECTION B-B'

FIGURE 13



LEGEND

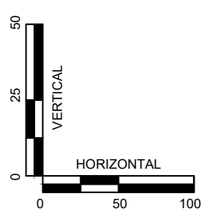
- GROUND SURFACE
- WATER BEARING ZONE BOUNDARY
- BENZENE PLUME LIMITS
- CVOC PLUME LIMITS
- AQUITARD ZONE
- POTENTIAL VERTICAL MIGRATION OF PETROLEUM HYDROCARBONS

DEFINITIONS

CVOC - CHLORINATED VOLATILE ORGANIC COMPOUND

UST - UNDERGROUND STORAGE TANK

? - QUERIED WHERE UNCERTAIN



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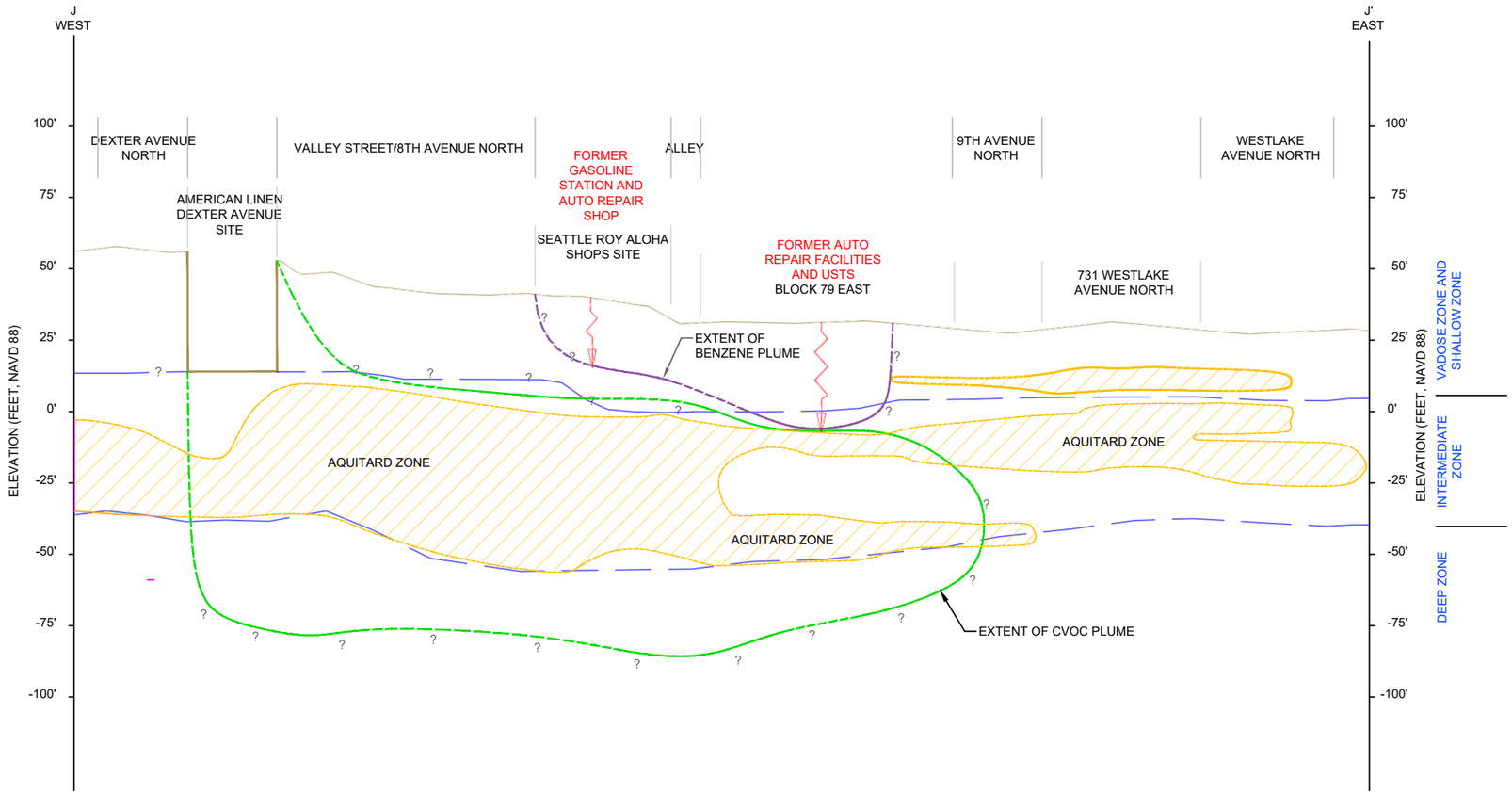
SEATTLE ROY ALOHA SHOPS PROPERTY
800 ALOHA STREET
SEATTLE, WASHINGTON
SOUNDEARTH PROJECT #: 1590-001

CONCEPTUAL SITE MODEL
CROSS SECTION H-H'

FIGURE 14



LEGEND

- GROUND SURFACE
- WATER BEARING ZONE BOUNDARY
- BENZENE PLUME LIMITS
- CVOC PLUME LIMITS
- AQUITARD ZONE
- POTENTIAL VERTICAL MIGRATION OF PETROLEUM HYDROCARBONS

DEFINITIONS

CVOC - CHLORINATED VOLATILE ORGANIC COMPOUND

UST - UNDERGROUND STORAGE TANK

? - QUERIED WHERE UNCERTAIN

NOTES

1. DEEP WATER-BEARING ZONE TRANSPOSED 0-50 FEET TO THE NORTH.

VERTICAL: 0, 25, 50
HORIZONTAL: 0, 50, 100

APPROXIMATE SCALE IN FEET

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800 ALOHA STREET
SEATTLE, WASHINGTON
SOUNDEARTH PROJECT #: 1590-001

CONCEPTUAL SITE MODEL
CROSS SECTION J-J'

FIGURE 15

TABLES

Table 1
Groundwater Analytical Results for GRPH and BTEX - Shallow Water-Bearing Zone
Seattle Roy Aloha Shops
800 Aloha Street
Seattle, Washington

Well ID	Water-Bearing Zone	Screen Top Elevation (feet AMSL)	Screen Bottom Elevation (feet AMSL)	Sampled By	Date Sampled	Analytical Results (micrograms per liter) GRPH[1]	Benzene[2]	Toluene[2]	Ethylbenzene[2]	Total Xylenes[2]
Roy Street Shops Property										
SCS-001	Shallow	27.37	17.37	SoundEarth	06/13/18	100	0.28	<1.0	<0.20	0.79
				SoundEarth	08/06/24	90.6	0.208	<0.500	<0.500	<1.50
SCS-002	Shallow	28.2	18.2	PES	07/18/19	2,190 J+	15.5	3.71	141	149
				PES	10/10/19	--	20.3	6.00	307	123
				PES	01/16/20	--	16.9	5.00 J	135	32.2
				SoundEarth	08/12/24	2,240	7.24	<5.00	8.42	<10.0
SCS-003	Shallow	24.91	14.91	SoundEarth	06/14/18	<100	<0.20	<1.0	<0.20	<0.60
				SoundEarth	08/07/24	376	0.221	<0.500	0.551	<1.50
SCS-004	Shallow	25.48	15.48	SoundEarth	06/13/18	880	1.3	<1.0	37	1.06
				SoundEarth	08/07/24	3,630 D	0.302	0.924	2.33	<1.50
SCS-005	Shallow	28.27	18.27	SoundEarth	06/13/18	<100	0.48	1.3	<0.20	<0.60
				SoundEarth	08/07/24	<50.0	<0.200	<0.500	<0.500	<1.50
SCS-006	Shallow	30.5	16.02	SoundEarth	06/13/18	6,400	97	7.1	91	32
				SoundEarth	08/07/24	5,310 D	45.2 D	2.84	4.50	4.15
SCS-007	Shallow	26.26	16.78	SoundEarth	06/14/18	5,600	14	<5.0	23	15
				SoundEarth	08/07/24	3,710 D	3.44	1.15	8.68	2.27
SCS-008	Shallow	28.79	14.29	PES	01/16/20	--	0.156 J	1.96	<0.158	0.569 J
				PES	05/06/20	--	<0.0941	<0.278	<0.137	<0.174
				PES	07/14/20	--	<0.0160	0.161 J	<0.0212	<0.191
				SoundEarth	08/07/24	<50.0	<0.200	<0.500	<0.500	<1.50
SCS-010	Shallow	31.13	16.13	SoundEarth	06/14/18	<100	<0.20	<0.5	<0.50	<0.60
				SoundEarth	08/07/24	<50.0	<0.200	<0.500	<0.500	<1.50
8th Avenue North Right-of-Way										
EAN-009/MW-9	Shallow	34.1	19.1	PES	10/31/22	<31.6	0.0280 J	<0.0500	<0.0212	<0.191
				PES	05/12/23	--	0.0430	<0.0500	<0.0212	<0.191
				PES	11/06/23	--	<0.0160	<0.0500	<0.0212	<0.191
				SoundEarth	08/06/24	<50.0	<0.200	<0.500	<0.500	<1.50
MW-121	Shallow	26.7	16.7	PES	08/04/22	<31.6	<0.0160	<0.0500	<0.0212	<0.191
				PES	10/31/22	<31.6	<0.0160	<0.0500	0.0330 J	<0.191
				PES	05/16/23	--	<0.016 J	<0.05 J	<0.0212 J	<0.191 J
				PES	11/07/23	--	<0.0160	<0.0640	<0.0212	<0.191
MW-159	Shallow	22.9	12.9	PES	08/03/22	--	0.0290 J	<0.0500	<0.0212	<0.191
				PES	10/31/22	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	05/16/23	--	0.0240 J	<0.0500 J	<0.0212 J	<0.191 J
				PES	11/07/23	--	0.0270 J	<0.0500	<0.0212	<0.191
9th Avenue North Right-of-Way										
MW-320	Shallow	18.6	8.6	PES	05/20/21	--	<0.0160	<0.0520	<0.0212	<0.191
				PES	11/16/21	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	06/08/22	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	11/04/22	--	<0.0160	<0.0500	<0.0212	<0.191
FMW-143	Shallow	10.0	5.0	PES	10/31/19	--	<0.0896	<0.412	<0.158	<0.316
				PES	01/22/20	--	<0.0896	<0.412	<0.158	<0.316
				PES	05/14/20	--	<0.0941	0.319 J	<0.137	0.201 J
				PES	07/22/20	--	<0.0160	0.146 J	0.0490 J	0.331
Alley Between Roy Street Shops Property and Block 79 East Property										
MW-310	Shallow	19.2	9.2	PES	11/03/21	--	0.0440	<0.0500	<0.0212	<0.191
				PES	05/18/22	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	11/01/22	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	11/07/23	--	<0.0160	<0.0500	<0.0212	<0.191
MW-312	Shallow	19.9	9.9	PES	11/03/21	--	0.0220 J	0.407	0.0710 J	0.512
				PES	05/09/22	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	11/01/22	--	<0.0160	0.102 J	<0.0212	<0.191
				PES	11/07/23	--	<0.0160	<0.0500	<0.0212	<0.191
MW-313	Shallow	20.4	10.4	PES	05/18/22	--	<0.0160	0.436	0.0870 J	0.567
				PES	11/01/22	--	<0.0160	0.0900 J	<0.0212	<0.191
				PES	05/15/23	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	11/07/23	--	<0.0160	<0.0500	<0.0212	<0.191
SCL-101	Shallow	25.5	15.5	PES	05/19/22	--	10.1	0.853	46.7	1.90
				PES	11/03/22	--	5.03	0.364	0.582	1.17
				PES	11/07/23	--	4.61	0.220	0.340	0.936
				SoundEarth	08/07/24	1,670	3.67	<0.500	<0.500	<1.50
SCL-102	Shallow	25.95	15.95	SoundEarth	06/13/18	7,800	56	<20	630	46
				SoundEarth	08/07/24	6,590 D	18.7	5.44	243 D	12.2
SCL-105	Shallow	11.1	1.1	PES	01/17/20	--	142	14.9	54.6	28.6
				PES	04/01/20	--	95.1	11.3	47.4	23.4
				PES	07/24/20	--	86.6	12.0	35.1	22.5
				SoundEarth	08/07/24	5,400 D	84.0 D	8.22	15.5	13.8
Westlake Avenue North Right-of-Way										
MW-337	Shallow	18.1	8.1	PES	05/04/21	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	11/17/21	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	05/03/22	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	11/02/22	--	<0.0160	<0.0500	<0.0212	<0.191
MW-339	Shallow	18.2	8.2	PES	05/25/21	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	11/10/21	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	05/04/22	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	11/02/22	--	<0.0160	<0.0500	<0.0212	<0.191
Roy Street Right-of-Way										
MW-154	Shallow	27.8	17.9	PES	08/02/22	--	<0.0160	0.265	<0.0212	0.255 J
				PES	11/03/22	--	<0.0160	<0.0600	<0.0212	<0.191
				PES	05/12/23	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	11/10/23	--	<0.0160	<0.0500	<0.0212	<0.191
MW-155	Shallow	24.4	14.4	PES	08/03/22	--	0.0200 J	<0.0550	<0.0212	<0.191
				PES	11/04/22	--	<0.0160	0.0830 J	<0.0212	<0.191
				PES	05/09/23	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	11/10/23	--	0.0220 J	<0.0500	<0.0212	<0.191
MW-332	Shallow	16.0	6.0	PES	11/08/21	--	<0.0160	0.276	0.0500 J	0.357
				PES	05/31/22	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	11/04/22	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	11/08/23	--	<0.0160	<0.0500	<0.0212	<0.191
FMW-1	Shallow	NA	NA	PES	11/02/22	--	<0.0160	<0.0500	<0.0212	<0.191

Table 1
Groundwater Analytical Results for GRPH and BTEX - Shallow Water-Bearing Zone
Seattle Roy Aloha Shops
800 Aloha Street
Seattle, Washington

Well ID	Water-Bearing Zone	Screen Top Elevation (feet AMSL)	Screen Bottom Elevation (feet AMSL)	Sampled By	Date Sampled	Analytical Results (micrograms per liter) GRPH[1]	Benzene[2]	Toluene[2]	Ethylbenzene[2]	Total Xylenes[2]
Valley Street Right-of-Way										
MW125	Shallow	28.6	13.6	PES	05/19/22	<31.6	<0.0160	<0.0500	<0.0212	<0.191
				PES	08/09/22	<31.6	<0.0160	<0.0500	<0.0212	<0.191
				PES	10/31/22	<64.0	<0.0160	<0.0500	<0.0212	<0.191
				PES	10/31/23	--	<0.0160	<0.0500	<0.0212	<0.191
MW-209	Shallow	21.88	6.88	Atlas	02/17/22	<13.4	<0.1	<0.1	<0.11	<0.2
				Atlas	08/17/22	24.4[J]	<0.1	<0.1	<0.11	<0.2
				Atlas	11/30/22	<22.6	<0.1	<0.1	<0.11	<0.2
MW-210	Shallow	21.56	6.56	PES	07/07/20	--	<0.0160	<0.0500	<0.0212	<0.191
				Atlas	02/17/22	<13.4	<0.1	<0.1	<0.11	<0.2
				Atlas	08/17/22	<22.6	<0.1	<0.1	<0.11	<0.2
				Atlas	11/30/22	<22.6	<0.1	<0.1	<0.11	<0.2
MW-211	Shallow	21.55	6.55	PES	07/07/20	--	<0.0160	<0.0500	<0.0212	<0.191
				Atlas	02/16/22	<13.4	<0.1	<0.1	<0.11	<0.2
				Atlas	08/17/22	23.5[J]	<0.1	<0.1	<0.11	<0.2
				Atlas	11/30/22	<22.6	<0.1	<0.1	<0.11	<0.2
MW-213	Shallow	22.35	7.35	PES	07/07/20	--	<0.0160	<0.0500	<0.0212	<0.191
				Atlas	02/17/22	168	1.6	0.15[J]	0.23[J]	<0.2
				Atlas	08/17/22	46.9[J]	<0.1	<0.1	<0.11	<0.2
				Atlas	12/01/22	<22.6	<0.1	<0.1	<0.11	<0.2
MW-214	Shallow	20.33	10.33	PES	07/06/20	--	<0.0160	<0.0500	<0.0212	<0.191
				Atlas	02/17/22	<13.4	<0.1	<0.1	<0.11	<0.2
				Atlas	08/17/22	<22.6	<0.1	<0.1	<0.11	<0.2
				Atlas	12/01/22	<22.6	<0.1	<0.1	<0.11	<0.2
MW-215	Shallow	20.21	10.21	Atlas	02/17/22	<13.4	<0.1	<0.1	<0.11	<0.2
				Atlas	08/17/22	31.6[J]	<0.1	<0.1	<0.11	<0.2
				Atlas	12/01/22	<22.6	<0.1	<0.1	<0.11	<0.2
MW-301	Shallow	35.6	25.6	PES	05/10/22	<31.6	<0.0160	<0.0500	<0.0212	<0.191
				PES	08/12/22	<31.6	<0.0160	<0.0500	<0.0212	<0.191
				PES	10/31/22	<31.6	<0.0160	0.357	0.0710[J]	0.327
				PES	11/03/23	--	<0.0160	0.0560[J]	<0.0212	<0.191
Block 37 Property										
B-37-3	Shallow	11.78	3.08	Farallon	02/16/22	<100	<0.2	<1.0	<0.2	<0.6
				Farallon	05/17/22	<100	<0.2	<1.0	<0.2	<0.6
				Farallon	08/25/22	<100	<0.2	<1.0	<0.2	<0.6
				Farallon	11/07/22	<100	<0.2	<1.0	<0.2	<0.6
B-37-4	Shallow	12.2	2.2	Farallon	02/16/22	<100	<0.2	<1.0	<0.2	<0.6
				Farallon	05/17/22	<100	<0.2	<1.0	<0.2	<0.6
				Farallon	08/25/22	<100	<0.2	<1.0	<0.2	<0.6
				Farallon	11/07/22	<100	<0.2	<1.0	<0.2	<0.6
B-37-5	Shallow	12.55	2.55	Farallon	02/17/22	<100	<0.2	<1.0	<0.2	<0.6
				Farallon	05/18/22	<100	<0.2	<1.0	<0.2	<0.6
				Farallon	08/25/22	<100	<0.2	<1.0	<0.2	<0.6
				Farallon	11/07/22	<100	<0.2	<1.0	<0.2	<0.6
B-37-6	Shallow	12.54	2.54	Farallon	02/16/22	<100	<0.2	<1.0	<0.2	<0.6
				Farallon	05/18/22	<122	<0.2	<1.0	<0.2	<0.6
				Farallon	08/25/22	<100	<0.2	<1.0	<0.2	<0.6
				Farallon	11/07/22	<100	<0.2	<1.0	<0.2	<0.6
FMW-139	Shallow	20.81	10.81	Atlas	02/16/22	<100	<0.2	<1.0	<0.2	<0.6
				Atlas	05/18/22	<100	<0.2	<1.0	<0.2	<0.6
				Atlas	08/24/22	<100	<0.2	<1.0	<0.2	<0.6
				Atlas	11/08/22	<100	<0.2	<1.0	<0.2	<0.6
MWR-1	Shallow	21.86	11.86	Atlas	12/01/22	<22.6	0.21	<1.0	<.11	<0.2
MWR-3	Shallow	21.67	12.67	Atlas	05/18/22	<100	<0.2	<1.0	<0.2	<0.6
				Atlas	08/24/22	<100	<0.2	<1.0	<0.2	<0.6
				Atlas	11/08/22	<100	<0.2	<1.0	<0.2	<0.6
				Atlas	12/01/22	<22.6	<0.1	<0.1	<0.11	<0.2
MWR-4	Shallow	20.8	11.8	Atlas	12/01/22	<22.6	<0.1	<0.1	<0.11	<0.2
MWR-5	Shallow	19.12	10.12	Atlas	12/01/22	**1,580**	3.2	0.51[J]	55	6.9
MWR-6	Shallow	21.12	11.12	Atlas	02/17/22	<100	<0.2	<1.0	<0.2	<0.6
				Atlas	05/17/22	<100	<0.2	<1.0	<0.2	<0.6
				Atlas	08/24/22	<100	<0.2	<1.0	<0.2	<0.6
				Atlas	11/08/22	<100	<0.2	<1.0	<0.2	<0.6
MW-45	Shallow	15.11	-0.89	Farallon	02/16/22	410	<0.2	<1.0	3.9	<0.6
				Farallon	05/18/22	160	<0.2	<1.0	<0.2	<0.6
				Atlas	08/24/22	<100	<0.2	<1.0	<0.2	<0.6
				Farallon	11/08/22	<100	<0.2	<1.0	<0.2	<0.6
MW-50	Shallow	24.3	11.8	Farallon	02/18/22	<100	<0.2	<1.0	<0.2	<0.6
				Farallon	05/17/22	<100	<0.2	<1.0	<0.2	<0.6
				Farallon	08/24/22	<100	<0.2	<1.0	<0.2	<0.6
				Farallon	11/08/22	<100	<0.2	<1.0	<0.2	<0.6
MW-54	Shallow	24.06	9.06	Farallon	02/16/22	<100	<0.2	<1.0	<0.2	<0.6
				Farallon	05/18/22	<100	<0.2	<1.0	<0.2	<0.6
				Farallon	08/24/22	<100	<0.2	<1.0	<0.2	<0.6
				Farallon	11/08/22	<100	<0.2	<1.0	<0.2	<0.6
MTCA Cleanup Level for Groundwater[3]						**800**	**5**	**1,000**	**700**	**1,000**

NOTES:
Red denotes concentration exceeds MTCA cleanup level for groundwater.
SoundEarth sample analyses conducted by Fremont Analytical, Inc. of Seattle, Washington.
[1]Analyzed by Method NWTPH-Gx.
[2]Analyzed by EPA Method 8260D.
[3]MTCA Cleanup Regulation, Chapter 173-340-900 of WAC, Table 720-1 Method A Cleanup Levels for Groundwater, revised November 2007.

Laboratory Notes:
[D]Dilution was required.
[J]The identification of the analyte is acceptable; the reported value is an estimate
[J+]The result is an estimated quantity, but the result may be biased high.

-- = not analyzed/not applicable
< = not detected at a concentration exceeding the laboratory reporting limit
AMSL = above mean sea level
Atlas = Atlas Technical Consultants
BTEX = benzene, toluene, ethylbenzene, and total xylenes
EPA = US Environmental Protection Agency
Farallon = Farallon Consulting
GRPH = gasoline-range petroleum hydrocarbons
MTCA = Washington State Model Toxics Control Act
NWTPH = Northwest Total Petroleum Hydrocarbon
PES = PES Environmental, Inc. (now PES Environmental, an NV5 Company)
SoundEarth = SoundEarth Strategies, Inc.
WAC = Washington Administrative Code

Table 2
Groundwater Analytical Results for GRPH and BTEX - Intermediate A Water-Bearing Zone
Seattle Roy Aloha Shops
800 Aloha Street
Seattle, Washington

Well ID	Water-Bearing Zone	Screen Top Elevation (feet AMSL)	Screen Bottom Elevation (feet AMSL)	Sampled By	Date Sampled	Analytical Results (micrograms per liter) GRPH[1]	Benzene[2]	Toluene[2]	Ethylbenzene[2]	Total Xylenes[2]
8th Avenue North Right-of-Way										
MW-107	Intermediate A	8.8	-1.2	PES	05/15/23	--	0.0600	0.123[J]	<0.0212	<0.19
				PES	08/16/23	--	0.116	0.443	0.282	1.18
				PES	11/03/23	--	<0.0160	0.255	<0.0212	<0.191
				SoundEarth	08/05/24	<50.0	<0.200	<0.500	<0.500	<1.50
MW-120	Intermediate A	0	-10	PES	10/31/22	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	05/12/23	--	0.0200[J]	<0.0500	<0.0212	<0.191
				PES	11/06/23	--	<0.0160	<0.0500	<0.0212	<0.191
				SoundEarth	08/08/24	86.2	<0.200	<0.500	<0.500	<1.50
MW127	Intermediate A	-1	-11	PES	10/31/22	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	05/16/23	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	11/06/23	--	<0.0160	<0.0500	<0.0212	<0.191
				SoundEarth	08/08/24	<50.0	<0.200	<0.500	<0.500	<1.50
MW-142	Intermediate A	2.4	-7.6	PES	10/31/22	--	0.263	<0.0500	<0.0212	<0.191
				PES	05/16/23	--	0.2110[J]	<0.050	<0.0212	<0.191
				PES	11/06/23	--	0.281	0.0890[J]	<0.0212	<0.191
				SoundEarth	08/05/24	53.9	0.258	<0.500	<0.0212	<1.50
MW-144R	Intermediate A	3.9	-6.5	PES	11/02/22	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	05/15/23	--	<0.0160	0.0860[J]	<0.0212	0.234[J]
				PES	11/08/23	--	0.0220[J]	<0.0500	0.0300[J]	<0.191
				SoundEarth	08/05/24	<50.0	<0.200	<0.500	<0.500	<1.50
MW-156	Intermediate A	2	-8	PES	10/31/22	--	0.184	0.0580[J]	<0.0212	<3.82
				PES	05/12/23	--	0.130	<0.0500	<0.0212	<0.191
				PES	11/06/23	--	<0.320	<1.00	<0.424	<0.191
				SoundEarth	08/05/24	453	<0.200	<0.500	<0.500	<3.82
9th Avenue North Right-of-Way										
MW115	Intermediate A	-0.6	-10.6	PES	08/10/22	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	11/03/22	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	05/18/23	--	<0.580	<0.0500	<0.0212	<0.191
				PES	11/08/23	--	<0.0160	0.0580[J]	<0.0212	<0.191
MW116	Intermediate A	-3.1	-13.1	PES	08/10/22	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	11/04/22	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	05/18/23	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	11/08/23	--	<0.0160	0.153[J]	0.0680[J]	0.257[J]
MW-317	Intermediate A	3.4	-6.6	PES	05/27/22	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	11/01/22	--	<0.0800	<0.250	<0.106	<0.955
				PES	05/16/23	--	0.1750[J]	<0.250	<0.106	<0.955
				PES	11/08/23	--	0.0350[J]	0.0560[J]	<0.0212	<0.191
FMW-142	Intermediate A	-4.6	-9.6	PES	03/02/22	--	<0.0160	0.173[J]	<0.0212	0.199[J]
				PES	06/05/22	--	0.0200[J]	0.160[J]	<0.0212	<0.191
				PES	11/04/22	--	<0.0220[J]	0.0790[J]	<0.0212	<0.191
				PES	11/08/23	--	<0.0160	0.106[J]	<0.0212	<0.191
Alley Between Roy Street Shops Property and Block 79 East Property										
MW108	Intermediate A	-7.2	-17.2	PES	11/01/22	--	3.23	0.184[J]	<0.0212	<0.191
				PES	05/12/23	--	3.28	<1.000	<0.4240	<3.820
				PES	11/07/23	--	1.90	<1.00	<0.424	<3.82
				SoundEarth	08/06/24	592	3.73	<0.500	<0.500	<1.50
MW109	Intermediate A	0	-10	PES	11/01/22	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	05/15/23	--	0.0270[J]	<0.0500	<0.0212	<0.191
				PES	11/07/23	--	0.0220[J]	<0.0570	<0.0212	<0.191
				SoundEarth	08/06/24	<50.0	<0.200	<0.500	<0.500	<1.50
MW-110	Intermediate A	4.7	-5.3	PES	08/11/22	--	<0.400	<1.25	<0.530	<4.78
				PES	11/01/22	--	0.0970	0.121[J]	<0.0212	<0.191
				PES	05/15/23	--	0.0760	<0.050	<0.0212	<0.191
				PES	11/07/23	--	<0.160	<0.500	<0.212	<1.91
MW-308	Intermediate A	-4.7	-14.7	PES	11/01/22	--	**9.53**	0.120[J]	<0.0212	<0.191
				PES	05/12/23	--	8.66	0.113[J]	<0.0212	<0.191
				PES	11/07/23	--	1.81	<0.0500	<0.0212	<0.191
				SoundEarth	08/07/24	<50.0	0.631	<0.500	<0.500	<1.50
MW-331	Intermediate A	-4.3	-14.3	PES	11/01/22	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	05/09/23	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	11/07/23	--	<0.0160	<0.0500	<0.0212	<0.191
				SoundEarth	08/07/24	<50.0	<0.200	<0.500	<0.500	<1.50
Westlake Avenue North Right-of-Way										
MW-327	Intermediate A	3.6	-6.3	PES	11/10/21	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	05/04/22	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	11/02/22	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	11/09/23	--	<0.0160	<0.0500	<0.0212	<0.191
Roy Street Right-of-Way										
BB-8	Intermediate A	14	4	PES	08/09/22	--	0.0280[J]	0.0520[J]	<0.0212	<0.191
				PES	11/09/22	--	0.0340[J]	<0.0500	<0.0212	<0.191
				PES	05/09/23	--	0.0890	<0.0500	<0.0212	<0.191
				PES	10/31/23	--	<0.160	<0.500	<0.212	<1.91
MW-146	Intermediate A	12.8	2.8	PES	08/03/22	--	<0.160	<0.500	<0.212	<1.91
				PES	11/03/22	--	<0.0160	<0.0920	<0.0212	<0.191
				PES	05/12/23	--	0.6300	<0.5000	<0.2120	<1.910
				PES	11/10/23	--	<0.160	<0.500	<0.212	<1.91
MW-351	Intermediate A	2.7	-7.3	PES	05/09/23	--	0.0540	0.229	0.116	0.618
				PES	11/09/23	--	0.153	<0.0500	<0.0212	<0.191
900 Roy Street Property										
MW-333	Intermediate A	-1.5	-11.5	PES	05/18/21	--	<0.0160	0.0870[J]	<0.0212	<0.191
				PES	11/05/21	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	05/31/22	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	11/02/22	--	<0.160	<0.500	<0.212	<1.91

Table 2
Groundwater Analytical Results for GRPH and BTEX - Intermediate A Water-Bearing Zone
Seattle Roy Aloha Shops
800 Aloha Street
Seattle, Washington

Well ID	Water-Bearing Zone	Screen Top Elevation (feet AMSL)	Screen Bottom Elevation (feet AMSL)	Sampled By	Date Sampled	Analytical Results (micrograms per liter)				
						GRPH[1]	Benzene[2]	Toluene[2]	Ethylbenzene[2]	Total Xylenes[2]
Valley Street Right-of-Way										
MW-189	Intermediate A	-1.2	-11.2	PES	08/11/22	--	<0.0160	<0.0780	<0.0212	<0.191
				PES	10/31/22	--	<0.0160	0.0870[J]	<0.0212	<0.191
				PES	05/12/23	--	<0.0160	0.2130	0.0480[J]	0.306
				PES	11/03/23	--	<0.0160	0.144[J]	<0.0212	<0.191
MW-330	Intermediate A	-0.1	-10.1	PES	11/11/21	--	<0.0160	<0.0500	0.0300[J]	0.273
				PES	05/25/22	--	<0.0160	<0.0900	<0.0212	<0.191
				PES	10/31/22	--	<0.0160	0.107[J]	0.0350[J]	<0.191
				PES	10/31/23	--	<0.0160	<0.0500	<0.0212	<0.191
Block 37 Property										
B-37-7	Intermediate A	-0.79	-10.79	Atlas	02/17/22	<100	<0.2	<1.0	<0.2	<0.6
				Atlas	05/18/22	<100	<0.2	<1.0	<0.2	<0.6
				Atlas	08/25/22	<100	<0.2	<1.0	<0.2	<0.6
				Atlas	11/09/22	<100	<0.2	<1.0	<0.2	<0.6
B-37-8	Intermediate A	-0.56	-10.56	Atlas	02/17/22	<100	<0.2	<1.0	<0.2	<0.6
				Atlas	05/18/22	<100	<0.2	<1.0	<0.2	<0.6
				Atlas	08/25/22	<100	<0.2	<1.0	<0.2	<0.6
				Atlas	11/09/22	<100	<0.2	<1.0	<0.2	<0.6
B-37-9	Intermediate A	0.03	-9.97	Atlas	02/17/22	<100	<0.2	<1.0	<0.2	<0.6
				Atlas	05/17/22	<100	<0.2	<1.0	<0.2	<0.6
				Atlas	08/24/22	<100	<0.2	<1.0	<0.2	<0.6
				Atlas	11/08/22	<100	<0.2	<1.0	<0.2	<0.6
GEI-1 (B-37-1)	Intermediate A	1.2	-8.8	Atlas	02/16/22	<100	<0.2	<1.0	<0.2	<0.6
				Atlas	05/17/22	<100	<0.2	<1.0	<0.2	<0.6
				Atlas	08/25/22	<100	<0.2	<1.0	<0.2	<0.6
				Atlas	11/09/22	<100	<0.2	<1.0	<0.2	<0.6
Block 79 East Property										
B79E-101 (GEI-MW-1)	Intermediate A	-9.5	-29.5	PES	05/27/22	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	11/04/22	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	05/16/23	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	11/08/23	--	<0.0160	<0.0500	<0.0212	<0.191
B79E-102	Intermediate A	4	-6	GeoEngineers	09/06/14	28.9	**14.1**	<1.00	<1.00	0.41
B79E-103	Intermediate A	-18.7	-28.7	GeoEngineers	09/06/14	<50.0	1.69	<1.00	<1.00	0.61
MTCA Cleanup Level for Groundwater[3]						**800**	**5**	**1,000**	**700**	**1,000**

NOTES:
Red denotes concentration exceeds MTCA cleanup level for groundwater.
SoundEarth sample analyses conducted by Fremont Analytical, Inc. of Seattle, Washington
[1]Analyzed by Method NWTPH-Gx.
[2]Analyzed by EPA Method 8260D.
[3]MTCA Cleanup Regulation, Chapter 173-340-900 of WAC, Table 720-1 Method A Cleanup Levels for Groundwater, revised November 2007.
Laboratory Notes:
[J]The identification of the analyte is acceptable; the reported value is an estimate

-- = not analyzed/not applicable
< = not detected at a concentration exceeding the laboratory reporting limit
AMSL = above mean sea level
Atlas = Atlas Technical Consulting
BTEX = benzene, toluene, ethylbenzene, and total xylenes
EPA = US Environmental Protection Agency
GeoEngineers = GeoEngineers, Inc.
GRPH = gasoline-range petroleum hydrocarbons
MTCA = Washington State Model Toxics Control Act
NWTPH = Northwest Total Petroleum Hydrocarbon
PES = PES Environmental, Inc. (now PES Environmental, an NV5 Company)
SoundEarth = SoundEarth Strategies, Inc.
WAC = Washington Administrative Code

Table 3
Groundwater Analytical Results for GRPH and BTEX - Intermediate B Water-Bearing Zone
Seattle Roy Aloha Shops
800 Aloha Street
Seattle, Washington

Well ID	Water-Bearing Zone	Screen Top Elevation (feet AMSL)	Screen Bottom Elevation (feet AMSL)	Sampled By	Date Sampled	Analytical Results (micrograms per liter) GRPH[1]	Benzene[2]	Toluene[2]	Ethylbenzene[2]	Total Xylenes[2]
8th Avenue North Right-of-Way										
MW-143	Intermediate B	-27.7	-37.6	PES	11/01/22	--	<0.0160	0.128 J	<0.0212	<0.191
				PES	05/16/23	--	0.0750 J	0.183 J	<0.0212	<0.191
				PES	11/07/23	--	<0.0160	0.281	0.0710 J	0.421
				SoundEarth	08/08/24	235	<0.200	<0.500	<0.500	<1.50
MW-145R	Intermediate B	-27.2	-37.6	PES	08/10/22	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	11/02/22	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	05/15/23	--	<0.0160	0.2610	<0.0212	0.364
				PES	11/08/23	--	<0.0160	<0.0500	0.0940 J	0.273
MW-157	Intermediate B	-28.3	-38.2	PES	01/20/20	1,650 ZJ+	0.308 J	<0.412	<0.158	<0.316
				PES	04/24/20	756 ZJ+	<1.88	<5.56	<2.74	<3.48
				PES	07/15/20	--	0.480 J	<1.00	<0.424	<3.82
				PES	11/23/20	--	<0.740	<1.00	<0.424	<3.82
W-MW-01	Intermediate B	-25.1	-35.1	PES	02/24/23	--	<0.0160	0.711	0.315	1.51
				PES	05/16/23	--	<0.0160	0.330 J	<0.021	0.41 J
				PES	08/16/23	--	0.0210 J	0.116 J	0.0870 J	0.564
				PES	11/06/23	--	<0.0160	0.181 J	<0.0212	<0.191
W-MW-02	Intermediate B	-26.3	-36.3	PES	10/18/19	<31.6	<0.0896	1.79	<0.158	<0.316
				PES	01/28/20	<31.6	<0.0896	2.93	<0.158	<0.316
				PES	04/01/20	<31.6	<0.0896	2.51	<0.158	<0.316
				PES	07/31/20	--	0.0502	0.387	<0.0212	<0.191
9th Avenue North Right-of-Way										
MW-318	Intermediate B	-23.1	-33.1	PES	11/01/22	--	50.1	0.189 J	<0.0212	0.210 J
				PES	05/16/23	--	56.1 J	0.199 J	<0.0212	<0.191
				PES	11/08/23	--	42.2	0.179 J	<0.0212	0.243 J
				SoundEarth	08/06/24	74.7	40.9 D	<0.500	<0.500	<1.50
MW-322	Intermediate B	-21.3	-31.3	PES	11/03/22	--	11.8	0.313	<0.0212	<0.191
				PES	05/17/23	--	5.1 J	<1.000	<0.4240	<3.820
				PES	11/08/23	--	4.19	0.0940 J	<0.0212	<0.191
				SoundEarth	08/06/24	922	2.28	<0.500	<0.500	<1.50
Alley Between Roy Street Shops Property and Block 79 East Property										
FMW-141	Intermediate B	-12.1	-22.1	PES	11/03/22	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	05/15/23	--	0.0390 J	0.1310 J	<0.0212	<0.191
				PES	11/07/23	--	<0.0160	0.0520 J	<0.0212	<0.191
				SoundEarth	08/07/24	<50.0	0.320	<0.500	<0.500	<1.50
MW111	Intermediate B	-33.5	-43.5	PES	11/01/22	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	05/15/23	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	11/07/23	--	0.0220 J	<0.0500	<0.0212	<0.191
				SoundEarth	08/06/24	<50.0	<0.200	<0.500	<0.500	<1.50
MW126	Intermediate B	-54.1	-64.1	PES	08/10/22	--	<0.0160	0.0790 J	<0.0212	<0.191
				PES	11/01/22	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	11/07/23	--	<0.0160	<0.0500	<0.0212	<0.191
				SoundEarth	08/07/24	<50.0	<0.200	<0.500	<0.500	<1.50
MW-309	Intermediate B	-32	-42	PES	11/01/22	--	0.351	0.107 J	<0.0212	<0.191
				PES	05/12/23	--	<0.016	<0.050	<0.0212	<0.191
				PES	11/07/23	--	0.274	<0.0500	<0.0212	<0.191
				SoundEarth	08/07/24	800	<0.200	<0.500	<0.500	<1.50
MW-311	Intermediate B	-29.1	-39.1	PES	11/01/22	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	05/15/23	--	<0.0160	0.0730 J	<0.0212	<0.191
				PES	11/07/23	--	<0.0160	<0.0500	<0.0212	<0.191
				SoundEarth	08/06/24	<50.0	<0.200	<0.500	<0.500	<1.50
MW-314	Intermediate B	-28	-38	PES	05/18/22	--	0.0290 J	<0.0500	<0.0212	<0.191
				PES	11/01/22	--	<0.0160	0.198 J	<0.0212	<0.191
				PES	05/15/23	--	0.0320 J	<0.050	<0.0212	<0.191
				PES	11/07/23	--	<0.320	<1.00	<0.424	<3.82
Westlake Avenue North Right-of-Way										
MW-338	Intermediate B	-16.6	-26.6	PES	11/17/21	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	05/04/22	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	11/02/22	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	11/08/23	--	0.0210 J	<0.0500	<0.0212	<0.191
MW-340	Intermediate B	-16.1	-26.1	PES	11/10/21	--	<0.0160	<0.0160	<0.0212	<0.191
				PES	05/04/22	--	<0.0160	0.0580 J	<0.0212	<0.191
				PES	11/02/22	--	<0.0160	0.131 J	<0.0212	<0.191
				PES	11/09/23	--	<0.0160	0.143 J	<0.0212	<0.191
Roy Street Right-of-Way										
MW-147	Intermediate B	-17.6	-27.6	PES	08/10/22	--	0.0390 J	<0.0500	<0.0212	<0.191
				PES	11/03/22	--	0.0430	<0.127	0.0320 J	<0.191
				PES	05/12/23	--	<0.0160	<0.050	<0.0212	<0.191
				PES	11/10/23	--	0.0200 J	0.0720 J	<0.0212	<0.191
MW-148	Intermediate B	-25.7	-35.7	PES	08/10/22	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	11/04/22	--	<0.0160	0.0850 J	<0.0212	<0.191
				PES	05/09/23	--	<0.0160	<0.0500	<0.0212	0.200 J
				PES	11/09/23	--	<0.0160	<0.0500	<0.0212	<0.191
900 Roy Street Property										
MW-334	Intermediate B	-21.7	-31.7	PES	11/05/21	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	05/31/22	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	11/03/22	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	11/09/23	--	<0.0160	<0.0500	<0.0212	<0.191

Table 3
Groundwater Analytical Results for GRPH and BTEX - Intermediate B Water-Bearing Zone
Seattle Roy Aloha Shops
800 Aloha Street
Seattle, Washington

Well ID	Water-Bearing Zone	Screen Top Elevation (feet AMSL)	Screen Bottom Elevation (feet AMSL)	Sampled By	Date Sampled	Analytical Results (micrograms per liter) GRPH[(1)]	Benzene[(2)]	Toluene[(2)]	Ethylbenzene[(2)]	Total Xylenes[(2)]
Valley Street Right-of-Way										
MW-190	Intermediate B	-30.2	-40.2	PES	08/11/22	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	10/31/22	--	<0.0160	0.122[J]	<0.0212	<0.191
				PES	05/12/23	--	<0.0160	<0.050	<0.0212	<0.191
				PES	11/06/23	--	<0.0160	<0.0500	<0.0212	<0.191
MTCA Cleanup Level for Groundwater[(3)]						**800**	**5**	**1,000**	**700**	**1,000**

NOTES:
Red denotes concentration exceeds MTCA cleanup level for groundwater.
SoundEarth sample analyses conducted by Fremont Analytical, Inc. of Seattle, Washington.
[(1)]Analyzed by Method NWTPH-Gx.
[(2)]Analyzed by EPA Method 8260D.
[(3)]MTCA Cleanup Regulation, Chapter 173-340-900 of WAC, Table 720-1 Method A Cleanup Levels for Groundwater, revised November 2007.
Laboratory Notes:
[U]Dilution was required.
[J]The identification of the analyte is acceptable; the reported value is an estimate.
[J+]The result is an estimated quantity, but the result may be biased high.
[Z]No/low level gasoline/petroleum detection; result is likely elevated due to high detections of CVOCs

-- = not analyzed/not applicable
< = not detected at a concentration exceeding the laboratory reporting limit
AMSL = above mean sea level
BTEX = benzene, toluene, ethylbenzene, and total xylenes
EPA = US Environmental Protection Agency
GRPH = gasoline-range petroleum hydrocarbons
MTCA = Washington State Model Toxics Control Act
NWTPH = Northwest Total Petroleum Hydrocarbon
PES = PES Environmental, Inc. (now PES Environmental, an NV5 Company)
SoundEarth = SoundEarth Strategies, Inc.
WAC = Washington Administrative Code

Table 4
Groundwater Analytical Results for GRPH and BTEX - Deep Water-Bearing Zone
Seattle Roy Aloha Shops
800 Aloha Street
Seattle, Washington

Well ID	Water-Bearing Zone	Screen Top Elevation (feet AMSL)	Screen Bottom Elevation (feet AMSL)	Sampled By	Date Sampled	Analytical Results (micrograms per liter)				
						GRPH[1]	Benzene[2]	Toluene[2]	Ethylbenzene[2]	Total Xylenes[2]
8th Avenue North Right-of-Way										
MW104	Deep	-76.3	-86.3	PES	11/02/22	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	05/15/23	--	<0.016	0.438	<0.0212	0.452
				PES	11/06/23	--	0.0450	0.174[J]	<0.0212	<0.191
				SoundEarth	08/08/24	<50.0	<0.200	<0.500	<0.500	<1.50
MW-158A	Deep	-48.2	-58.5	PES	11/01/22	--	<0.0160	0.138[J]	<0.0212	<0.191
				PES	05/12/23	--	0.0220[J]	<0.0500	<0.0212	<0.191
				PES	11/06/23	--	<0.0160	<0.0500	<0.0212	<0.191
				SoundEarth	08/05/24	<50.0	<0.200	<0.500	<0.500	<1.50
MW-160	Deep	-75.4	-85.4	PES	10/31/22	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	05/15/23	--	<0.0160	0.309	<0.0212	0.530
				PES	11/03/23	--	<0.0160	<0.0500	<0.0212	<0.191
				SoundEarth	08/05/24	<50.0	<0.200	<0.500	<0.500	<1.50
MW-161	Deep	-85.6	-95.6	PES	10/31/22	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	05/15/23	--	<0.0160	0.102[J]	<0.0212	<0.191
				PES	11/06/23	--	<0.0160	<0.0500	<0.0212	<0.191
				SoundEarth	08/05/24	<50.0	<0.200	<0.500	<0.500	<1.50
9th Avenue North Right-of-Way										
MW113	Deep	-36.8	-46.8	PES	08/10/22	--	3.80[J]	<5.00	2.80[J]	<19.1
				PES	11/03/22	--	2.29	<0.0500	<0.0212	<0.191
				PES	05/18/23	--	0.135[J]	<0.280	<0.106	<0.955
				PES	11/08/23	--	<0.080	<0.250	<0.106	<0.955
MW-319	Deep	-42.8	-52.8	PES	05/27/22	--	0.0250[J]	<0.0500	<0.0212	<0.191
				PES	11/02/22	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	05/17/23	--	0.159	<0.0500	<0.0212	<0.191
				PES	11/08/23	--	0.0360[J]	0.0560[J]	<0.0212	<0.191
MW-323	Deep	-65.4	-75.4	PES	11/04/22	--	0.0490	<0.0500	<0.0212	<0.191
				PES	05/17/23	--	<0.320	<1.00	<0.424	<3.82
				PES	11/08/23	--	0.0540	<0.0500	<0.0212	<0.191
				SoundEarth	08/05/24	476	<0.200	<0.500	<0.500	<1.50
Alley Between Roy Street Shops Property and Block 79 East Property										
MW103	Deep	-67.6	-77.6	PES	11/01/22	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	05/09/23	--	0.044	<0.0500	<0.0212	<0.191
				PES	11/07/23	--	<0.320	<1.00	<0.424	<3.82
				SoundEarth	08/06/24	<50.0	<0.200	<0.500	<0.500	<1.50
MW-122	Deep	-75	-85	PES	05/18/22	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	11/01/22	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	05/12/23	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	11/07/23	--	0.0190[J]	<0.0500	<0.0212	<0.191
Westlake Avenue North Right-of-Way										
MW-123	Deep	-42.5	-52.5	PES	03/02/22	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	06/09/22	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	11/03/22	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	11/09/23	--	<0.0160	<0.0500	<0.0212	<0.191
MW-128	Deep	-30.8	-40.8	PES	11/01/22	--	**11.9**	<0.0500	<0.0212	<0.191
				PES	05/18/23	--	2.96	<0.0500	<0.0212	<0.191
				PES	11/09/23	--	4.90	<0.0500	<0.0212	<0.191
				SoundEarth	08/05/24	<50.0	**11.4**	<0.500	<0.500	<1.50
MW-328	Deep	-36.1	-46.1	PES	11/02/22	--	**8.47**	<0.0500	<0.0212	<0.191
				PES	05/19/23	--	**6.13**	<0.0500	<0.0212	<0.191
				PES	11/09/23	--	**6.74**	<0.0500	<0.0212	<0.191
				SoundEarth	08/05/24	<50.0	<0.200	<0.500	<0.500	<1.50
MW-329	Deep	-69	-79	PES	11/01/22	--	0.176	<0.0500	<0.0212	<0.191
				PES	05/18/23	--	0.185	<0.0500	<0.0212	<0.191
				PES	11/09/23	--	0.172	<0.0500	<0.0212	<0.191
				SoundEarth	08/05/24	<50.0	0.203	<0.500	<0.500	<1.50
MW-341	Deep	-66.8	-76.8	PES	11/02/22	--	**25.7**	<0.0500	<0.0212	<0.191
				PES	05/18/23	--	**19.7**	<0.0500	<0.0212	<0.191
				PES	11/09/23	--	**20.4**	<0.0500	<0.0212	<0.191
				SoundEarth	08/05/24	53.1	**19.3**	<0.500	<0.500	<1.50
Roy Street Right-of-Way										
MW105	Deep	-85.3	-95.3	PES	08/09/22	--	0.0700	0.0950[J]	<0.0212	<0.191
				PES	11/09/22	--	0.0410	0.310	0.0670[J]	0.338
				PES	05/09/23	--	0.0320[J]	0.436	0.208	1.12
				PES	10/31/23	--	0.0380[J]	0.0870[J]	0.240	0.893
MW-153	Deep	-65.3	-75.3	PES	08/02/22	--	0.0300[J]	1.13	0.120	0.532
				PES	11/03/22	--	<0.0310	0.389	0.0650[J]	0.293
				PES	05/12/23	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	11/10/23	--	<0.0160	<0.0500	<0.0212	<0.191
MW-324	Deep	-32.1	-42.1	PES	05/31/22	--	2.55	<2.50	<1.06	<9.55
				PES	11/03/22	--	1.03	<0.0500	<0.0212	<0.191
				PES	05/18/23	--	1.20	<1.25	<0.530	<4.78
				PES	11/08/23	--	0.654	<0.0500	<0.0212	<0.191

Table 4
Groundwater Analytical Results for GRPH and BTEX - Deep Water-Bearing Zone
Seattle Roy Aloha Shops
800 Aloha Street
Seattle, Washington

Well ID	Water-Bearing Zone	Screen Top Elevation (feet AMSL)	Screen Bottom Elevation (feet AMSL)	Sampled By	Date Sampled	Analytical Results (micrograms per liter)				
						GRPH[1]	Benzene[2]	Toluene[2]	Ethylbenzene[2]	Total Xylenes[2]
900 Roy Street Property										
FMW-140	Deep	-38	-48	PES	05/31/22	--	**36.4**	0.135[J]	<0.0212	<0.191
				PES	11/02/22	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	05/15/23	--	**34.40**[J]	0.1570[J]	<0.0212	<0.191
				PES	11/14/23	--	**12.3**	0.0950[J]	<0.0212	<0.191
Valley Street Right-of-Way										
MW102	Deep	-65.8	-75.8	PES	08/12/22	--	<0.0160	<0.176	0.0340[J]	0.285
				PES	10/31/22	--	<0.0160	0.174[J]	<0.0212	<0.191
				PES	05/12/23	--	<0.0160	<0.050	<0.0212	0.194[J]
				PES	11/06/23	--	<0.0160	0.377	<0.0212	0.647
MW124	Deep	-53.8	-63.8	PES	05/12/22	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	10/31/22	--	<0.0160	0.117[J]	<0.0212	<0.191
				PES	05/12/23	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	11/03/23	--	<0.0160	<0.0500	<0.0212	<0.191
MW-342	Deep	-32.4	-42.4	PES	05/17/22	--	0.779	<0.0500	<0.0212	<0.191
				PES	11/01/22	--	0.980	<0.0500	<0.0212	<0.191
				PES	05/09/23	--	0.0290[J]	<0.0500	<0.0212	<0.191
				PES	11/09/23	--	1.02	<0.0500	<0.0212	<0.191
MW-343	Deep	-71.5	-81.5	PES	05/17/22	--	0.0940	<0.0500	<0.0212	<0.191
				PES	11/01/22	--	0.119	<0.0500	<0.0212	<0.191
				PES	05/09/23	--	0.051	0.328	0.0680[J]	0.491
				PES	12/04/23	--	0.0910	<0.0500	<0.0212	<0.191
Block 37 Property										
GEI-2 (B-37-2)	Deep	-21.1	-31.1	Atlas	02/18/22	<100	<0.2	<1.0	<0.2	<0.6
				Atlas	05/18/22	<100	2.8	<1.0	<0.2	<0.6
				Atlas	08/24/22	<100	<0.2	<1.0	<0.2	<0.6
				Atlas	11/09/22	<100	<0.2	<1.0	<0.2	<0.6
FMW-131	Deep	-34.7	-44.7	PES	08/05/22	--	0.0500	0.770	0.125	0.785
				PES	11/01/22	--	<0.0160	<0.0500	<0.0212	<0.191
				PES	05/09/23	--	<0.0160	<0.1700	<0.0212	<0.191
				PES	11/09/23	--	<0.0160	<0.0500	<0.0212	<0.191
MTCA Cleanup Level for Groundwater[3]						**800**	**5**	**1,000**	**700**	**1,000**

NOTES:
Red denotes concentration exceeds MTCA cleanup level for groundwater.
SoundEarth sample analyses conducted by Fremont Analytical, Inc. of Seattle, Washington.
[1]Analyzed by Method NWTPH-Gx.
[2]Analyzed by EPA Method 8260D.
[3]MTCA Cleanup Regulation, Chapter 173-340-900 of WAC, Table 720-1 Method A Cleanup Levels for Groundwater, revised November 2007.
Laboratory Notes:
[J]The identification of the analyte is acceptable; the reported value is an estimate.

-- = not analyzed/not applicable
< = not detected at a concentration exceeding the laboratory reporting limit
AMSL = above mean sea level
Atlas = Atlas Technical Consulting
BTEX = benzene, toluene, ethylbenzene, and total xylenes
EPA = US Environmental Protection Agency
GeoEngineers = GeoEngineers, Inc.
GRPH = gasoline-range petroleum hydrocarbons
MTCA = Washington State Model Toxics Control Act
NWTPH = Northwest Total Petroleum Hydrocarbon
PES = PES Environmental, Inc. (now PES Environmental, an NV5 Company)
SoundEarth = SoundEarth Strategies, Inc.
WAC = Washington Administrative Code

ATTACHMENT A

Ecology Markups to Figures 41 through 44 and 47 of the 2022 Agency Review Draft Remedial Investigation Report, American Linen Supply Co Dexter Ave Site, Prepared by PES

THIS DRAFT FIGURE CONTAINS ECOLOGY MARKUPS FOR DISCUSSION PURPOSES
(ORIGINAL SIZE IS 34 X 22 INCHES)

Aurora Avenue North
Aloha Street
Dexter Avenue North
8th Avenue North
9th Avenue North
Westlake Avenue N
Valley Street
Broad Street
Mercer Street
Terry Avenue North
LAKE UNION
625 Boren Avenue N (Block 31)

SEATTLE CITY LIGHT PROPERTY
BLOCK 79 EAST PROPERTY
AMERICAN LINEN PROPERTY

*MW-8 (28.7 to 14.2)
All non-detect.
1993-2002 Benzene ND - 19
2017-2020 Benzene ND - 0.156

MW-10 (10/1993 - 6/2002) Benzene: ND - 3.2

*SCL-MW105 (11.1 to 1.1)
All non-detect.
*2017-2020:
Benzene 86.6 - 257

SCL-MW101 (25.5 to 15.5)
All non-detect.
Benzene 6.04

MW-7 (10/1993 - 6/2002) Benzene: 650 - 20,000
MW-4 (3/1993 - 6/1993) Benzene: ND - 82
MW-3 (3/1993 - 6/1993) Benzene: 1500 - 4800
MW-6 (10/1993 - 6/2002) Benzene: 1900 - 17,000
MW-1 (3/1993 - 6/1993) Benzene: 10,000 - 20,000

*SCS-2 (28.2 to 18.2)
All non-detect.
*2017-2020:
Benzene 16.9 - 58.9

MW125 (28.6 to 13.6)
All non-detect.
Benzene ND

MW-301 (35.6 to 25.6)
1.85 | 0.110
0.0276 U | 0.0273 U
Benzene ND

MW-9 (34.1 to 19.1)
0.0280 U | 0.0160 U
0.117 | 0.223 J
Benzene 0.029
1993-2002 Benzene ND - 9.5
2017-2021 Benzene ND - 0.029

MW-310 (19.2 to 9.2)
0.0280 U | 0.0160 U
0.203 | 0.0273 U
Benzene 0.042

MW-337 (18.1 to 8.1)
0.0280 U | 0.0160 U
0.0490 J | 0.0670 J
Benzene ND

MW-339 (18.2 to 8.2)
0.0280 U | 0.0160 U
0.120 | 0.0273 U
Benzene ND

*SMW-3 (17.1 to 7.1)
All non-detect.

*FMW-143 (10.0 to 5.0)
All non-detect.
Benzene ND

MW-312 (19.9 to 9.9)
All non-detect.
Benzene 0.026

MW-320 (18.6 to 8.6)
All non-detect.
Benzene ND

MW-121 (26.7 to 16.7)
0.0280 U | 0.0160 U
0.418 | 1.79
Benzene 0.026

MW-159 (22.9 to 12.9)
0.0280 U | 0.0360 J
0.518 | 0.350 J-
Benzene 0.020

MW-313 (20.4 to 10.4)
0.0280 U | 0.0160 U
2.31 | 0.524
Benzene 0.026

MW-332 (16.0 to 6.0)
All non-detect.
Benzene ND

*MW-214 (20.8 to 10.8)
All non-detect.

R-MW5 (42.4 to 27.4)
0.671 | 0.232
0.186 | 0.0273 U

R-MW6 (33.3 to 23.3)
0.0670 J | 0.349
12.2 | 2.86
Benzene 0.077
1993-2002 Benzene ND
2017-2021 Benzene ND - 0.167

MW-154 (27.8 to 17.9)
3.41 | 0.453
0.134 | 0.0273 UJ
Benzene ND

MW-305 (37.4 to 27.4)
All non-detect.

*DMW-6 (32.1 to 22.1)
All non-detect.

*DMW-2S (30.7 to 20.7)
All non-detect.

*DMW-7S (28.8 to 18.8)
All non-detect.

*DMW-1S (38.8 to 28.8)
All non-detect.

*DMW-8S (38.5 to 28.5)
All non-detect.

*DMW-4S (38.5 to 28.5)
All non-detect.

*DMW-13S (29.4 to 19.4)
All non-detect.

*DMW-12S (23.2 to 13.2)
All non-detect.
Benzene ND

*DMW-9S (30.4 to 20.4)
All non-detect.
Benzene ND

*HMW-17S (22.2 to 12.2)
All non-detect.
Benzene ND

*HMW-18S (22.6 to 12.6)
All non-detect.
Benzene ND

*HMW-20S (28.8 to 18.8)
4.7 | 0.38
1.4 | 0.99
Benzene ND

*MW-155 (24.4 to 14.4)
119 | 26.0
11.7 | 0.190 J+
*2018-2020:
Benzene ND - 0.031

*HMW-2S (27.6 to 17.6)
All non-detect.
Benzene ND

*HMW-10S (23.5 to 13.5)
All non-detect.
Benzene ND

*HMW-1S (16.0 to 6.0)
All non-detect.
Benzene ND

*HMW-11S (16.5 to 6.5)
All non-detect.
Benzene ND

1992: Benzene 310 - 684 , VCND
2017/2018: Benz.0.272 - 0.694, VC 0.522 - 1.33

1992: Benzene ND , VC ND
2017/2018: Benzene ND, VC ND - 0.424

1992: Benzene 0.58 - 1 , VC 100 - 170
2009-2012: Benzene ND, VC 0.63 - 2.2

Before Start of Block 38 West Dewatering
After Start of Block 38 West Dewatering

N 231800 E 1268300

0 60 SCALE IN FEET

Explanation

- Approximate Property Boundary
- SW-A Lake Monitoring Location
- Type 1 Perimeter Injection Well
- Type 2 Perimeter Injection Well
- MW101 Shallow Zone Monitoring Well
- MW-165 Treatment Zone A Monitoring Well
- MW-166 Treatment Zone B Monitoring Well
- MW-167 Treatment Zone C Monitoring Well
- MW-168 Treatment Zone D Monitoring Well
- SV03 Soil Vapor Monitoring Point

- PCE, TCE, cDCE, and VC were not detected in samples during the Remedial Investigation
- PCE, TCE, cDCE, and VC were not detected above their PCULs in samples during the Remedial Investigation
- PCE, TCE, cDCE, and/or VC were detected once or more above the their PCULs in samples during the Remedial Investigation
- Approximate extent of PCE, TCE, cDCE, and VC above the PCULs
- Approximate groundwater flow direction in unpumped conditions

Preliminary Cleanup Levels (PCULs):
PCE = 5.0 µg/L
TCE = 4.0 µg/L
cDCE = 16 µg/L
VC = 0.29 µg/L

Well (Screen Elevation)	
PCE	TCE
cDCE	VC

Coordinate Reference Point
(NAD83, Washington State Plane North, US Feet)

Notes:
All results shown from Quarter 2, 2021 when available. Locations indicated with * are the most recent available results prior to Quarter 2, 2021.
U = Not detected at or above the laboratory method detection limit (MDL)
J = The identification of the analyte is acceptable; the reported value is an estimate
J+ = The result is an estimated quantity, but the result may be biased high
J- = The result is an estimated quantity, but the result may be biased low
Detected results shown in bold, detections above the PCUL highlighted in gray
PCE = Perchloroethylene (tetrachloroethene)
TCE = Trichloroethene
cDCE = cis-1,2-Dichloroethene
VC = Vinyl Chloride
Results shown in micrograms per liter (µg/L)

ECOLOGY NOTES:

Benzene data added to this figure by Ecology.

"ND" = Not detected above laboratory reporting limit

Estimated area of benzene exceedances in groundwater

Benzene exceedance (>5 ug/L) in groundwater

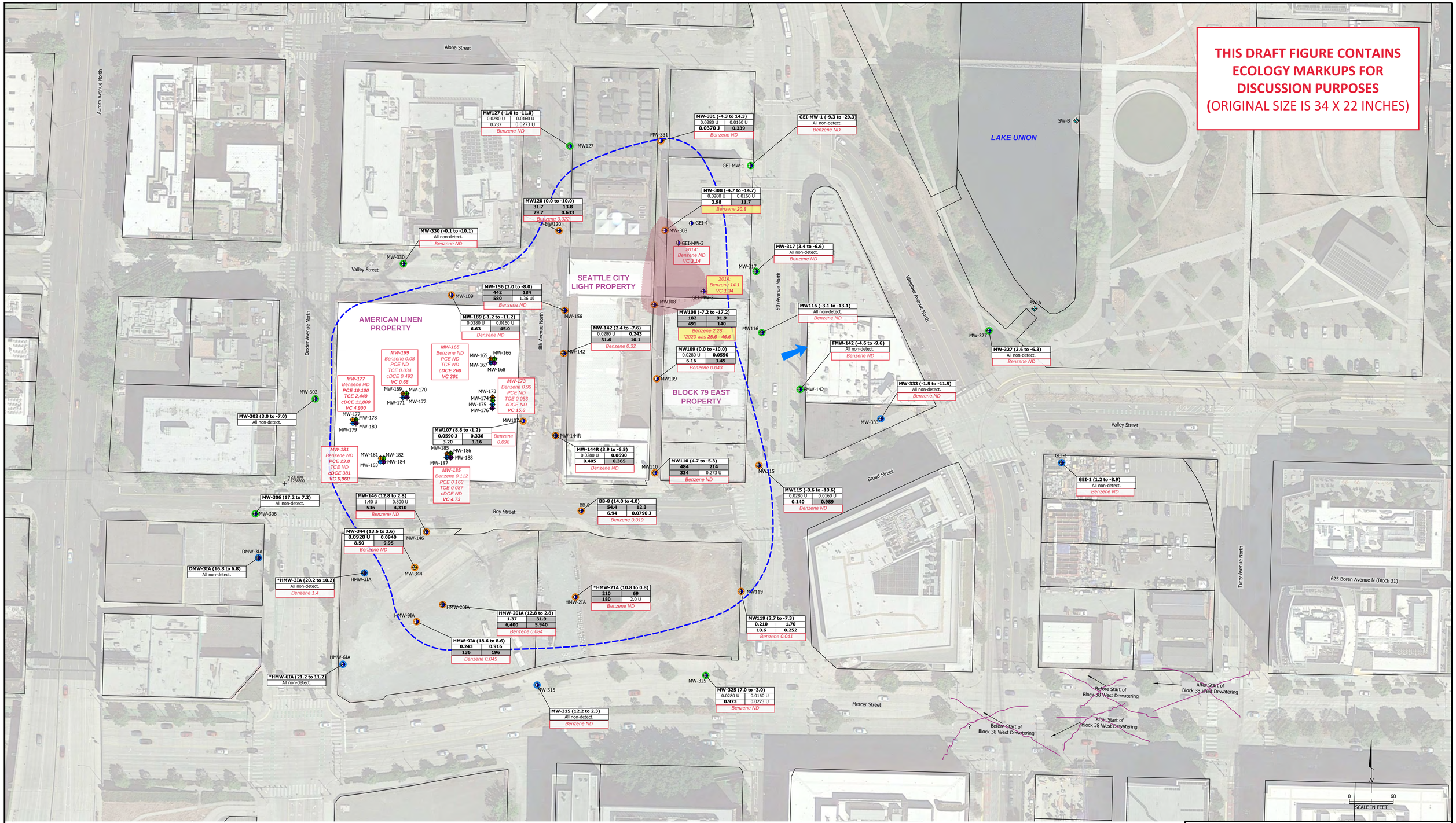
PES Environmental, Inc.
Engineering & Environmental Services
AN NV5 COMPANY

2021 CVOCs in Groundwater - Shallow Zone
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North
Seattle, Washington

FIGURE 41

1413.001.02.502.01	1413001025020l_RI21_41-44	DRAFT	4/22
DWG NUMBER	DRAWING NUMBER	REVIEWED BY	DATE

THIS DRAFT FIGURE CONTAINS ECOLOGY MARKUPS FOR DISCUSSION PURPOSES
(ORIGINAL SIZE IS 34 X 22 INCHES)



Explanation

- Approximate Property Boundary
- SW-A — Lake Monitoring Location
- Type 1 Perimeter Injection Well
- Type 2 Perimeter Injection Well
- GEI-4 — Intermediate A Zone Monitoring Well
- MW-344 — 2021 Intermediate A Monitoring Well
- MW-165 — Treatment Zone A Monitoring Well
- MW-166 — Treatment Zone B Monitoring Well
- MW-167 — Treatment Zone C Monitoring Well
- MW-168 — Treatment Zone D Monitoring Well

- PCE, TCE, cDCE, and VC were not detected in samples during the Remedial Investigation
- PCE, TCE, cDCE, and VC were not detected above their PCULs in samples during the Remedial Investigation
- PCE, TCE, cDCE, and/or VC were detected once or more above the their PCULs in samples during the Remedial Investigation
- Approximate extent of PCE, TCE, cDCE, and VC above the PCULs
- Approximate groundwater flow direction in unpumped conditions

Preliminary Cleanup Levels (PCULs):
PCE = 5.0 µg/L
TCE = 4.0 µg/L
cDCE = 16 µg/L
VC = 0.29 µg/L

Well (Screen Elevation)	
PCE	TCE
cDCE	VC

Coordinate Reference Point
(NAD83, Washington State Plane North, US Feet)

Notes:
All results shown from Quarter 2, 2021 when available. Locations indicated with * are the most recent available results prior to Quarter 2, 2021.
U = Not detected at or above the laboratory method detection limit (MDL)
J = The identification of the analyte is acceptable; the reported value is an estimate
J+ = The result is an estimated quantity, but the result may be biased high
J- = The result is an estimated quantity, but the result may be biased low
Detected results shown in bold, detections above the PCUL highlighted in gray
PCE = Perchloroethylene (tetrachloroethene)
TCE = Trichloroethene
cDCE = cis-1,2-Dichloroethene
VC = Vinyl Chloride
Results shown in micrograms per liter (µg/L)

ECOLOGY NOTES:

Benzene data added to this figure by Ecology.

"ND" = Not detected above laboratory reporting limit

Estimated area of benzene exceedances in groundwater

Benzene exceedance (>5 ug/L) in groundwater

PES Environmental, Inc.
Engineering & Environmental Services
AN NV5 COMPANY

FIGURE 42

2021 CVOCs in Groundwater - Intermediate A Zone
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North
Seattle, Washington

1413.001.02.502.01	141300102S0201_RI21_41-44	DRAFT	4/22
DWG NUMBER	DRAWING NUMBER	REVIEWED BY	DATE

THIS DRAFT FIGURE CONTAINS ECOLOGY MARKUPS FOR DISCUSSION PURPOSES
(ORIGINAL SIZE IS 34 X 22 INCHES)

AMERICAN LINEN PROPERTY

BLOCK 79 EAST PROPERTY

SEATTLE CITY LIGHT PROPERTY

LAKE UNION

Aurora Avenue North

Valley Street

Dexter Avenue North

Roy Street

Mercer Street

Broad Street

9th Avenue North

Westlake Avenue North

Terry Avenue North

625 Boren Avenue N (Block 31)

N 231800
E 1268300

MW-190 (-30.2 to -40.2)
0.0280 U | 0.0160 U
8.12 | 32.2
Benzene ND

MW-303 (-13.8 to -23.8)
All non-detect.
Benzene ND

MW-166
Benzene ND
PCE ND
TCE ND
cDCE 7,150
VC 2,020

MW-170
Benzene ND
PCE ND
TCE ND
cDCE 3,980
VC 12,000

MW-178
Benzene ND
PCE 10.3
TCE ND
cDCE 1,620
VC 2,680

MW-174
Benzene ND
PCE ND
TCE 0.102
cDCE 0.245
VC 1.85

MW112 (-17.2 to -27.2)
All non-detect.

***W-MW-02 (-26.3 to -36.3)**
0.280 U | **0.136**
1.39 J | **1.08**
Benzene 0.052

MW-145R (-27.2 to -37.2)
0.0280 U | 0.0160 U
0.0760 J | 0.0273 U
Benzene ND

MW-182
Benzene 0.362
PCE 8,900
TCE 469
cDCE 64,900
VC 30,600

MW-186
Benzene 0.044
PCE 0.179
TCE 0.123
cDCE 0.393
VC 4.67

W-MW-01 (-25.1 to -35.1)
0.0280 U | **0.197**
0.367 | **9.41**
Benzene ND

MW-307 (-12.4 to -22.4)
All non-detect.

HMW-161B (2.0 to -8.0)
0.20 U | 0.20 U
3.3 | **15**

MW-147 (-17.6 to -27.6)
2.80 U | **3.00 J**
1,300 | **2,200**
Benzene ND

MW-345 (-1.6 to -11.6)
0.717 | **0.456**
13.9 | **8.76**
Benzene ND

MW-350 (-1.7 to -11.7)
All non-detect.

***HMW-5IB (8.7 to -1.3)**
All non-detect.

HMW-91B (-1.6 to -11.6)
16.2 | **81.6**
3,060 | **1,230**

MW-346 (-2.2 to -12.2)
25.3 | **6.09**
18.1 | **1.90**

MW-347 (-1.3 to -11.3)
5.19 | **3.83**
123 | **66.9**

MW-348 (-4.6 to -14.6)
12.6 | **8.62**
104 | **55.4**

***HMW-6IB (8.7 to -1.3)**
All non-detect.

HMW-7IB (9.0 to -1.0)
All non-detect.

MW-349 (-2.8 to -12.8)
0.611 | **0.474**
7.23 | **11.6**

***HMW-8IB (7.5 to -2.5)**
All non-detect.

***HMW-4IA (8.7 to -1.3)**
0.20 U | 0.20 U
0.20 U | **0.41**

***HMW-15IB (-5.1 to -14.1)**
All non-detect.

MW-316 (-10.0 to -20.0)
All non-detect.

***MW-157 (-28.3 to -38.2)**
3.04 | **24.7**
2,770 | **528**
Benzene ND

MW-143 (-27.7 to -37.6)
1.40 U | 0.800 U
4,240 | **1,200**
Benzene ND

MW126 (-54.1 to -64.1)
All non-detect.
Benzene ND

MW-309 (-32.0 to -42.0)
0.0370 J | 0.0160 U
0.212 | **13.1**
Benzene 0.252

MW-311 (-29.1 to -39.1)
0.0660 J | **0.361**
0.981 | **4.68**
Benzene ND

FMW-141 (-12.1 to -22.1)
0.0280 U | **0.560**
5.41 | **0.218**
Benzene ND

MW111 (-33.5 to -43.5)
0.0280 U | **0.0790**
5.80 | **44.3**
Benzene 0.043

MW-314 (-28.0 to -38.0)
1.40 U | **54.5**
977 | **42.9**
Benzene ND

MW-148 (-25.7 to -35.7)
All non-detect.
Benzene ND

***HMW-2IB (-16.0 to -26.0)**
0.38 | 0.20 U
0.59 | 0.20 U

***HMW-1IB (-16.0 to -26.0)**
13 | **5.6**
16 | 0.20 U

***HMW-11B (-5.2 to -15.2)**
6.9 | **2.5**
3.6 | 0.20 U

MW-318 (-23.1 to -33.1)
0.0280 U | 0.0160 U
0.570 | **1.56**
Benzene 0.97
**2020 was 4.2 - 25.4*

MW-322 (-21.3 to -31.3)
8.80 | **259**
496 | **43.0**
Benzene 22.4

MW-338 (-16.6 to -26.6)
All non-detect.
Benzene ND

MW-340 (-16.1 to -26.1)
All non-detect.
Benzene ND

MW-334 (-21.7 to -31.7)
All non-detect.
Benzene ND

MW-335 (-25.6 to -35.6)
58.2 | **331J+**
1,490 | 0.273 U
Benzene 0.93

Before Start of Block 38 West Dewatering

After Start of Block 38 West Dewatering

***DW-17 (10 to -30)**
<2.0 | <2.0
320 | **45**

***DW-18A (10 to -30)**
<2.0 | <2.0
28 | **22**

***DW-16 (10 to -30)**
<4.0 | **6.9**
800 | <4.0

***DW-15 (10 to -30)**
<0.2 | **0.69**
38 | **0.33**

DW-18A
DW-18B
DW-17
DW-1
DW-16
DW-2
DW-15
DW-3

0 60
SCALE IN FEET

Explanation

- Approximate Property Boundary
- SW-A — Lake Monitoring Location
- W-MW-02 — Intermediate B Zone Monitoring Well
- MW-345 — 2021 Intermediate B Monitoring Well
- MW-165 — Treatment Zone A Monitoring Well
- MW-166 — Treatment Zone B Monitoring Well
- MW-167 — Treatment Zone C Monitoring Well
- MW-168 — Treatment Zone D Monitoring Well
- DW-1 — Intermediate/Deep Dewatering Well (Farallon, 2/11/21)

- PCE, TCE, cDCE, and VC were not detected in samples during the Remedial Investigation
- PCE, TCE, cDCE, and VC were not detected above their PCULs in samples during the Remedial Investigation
- PCE, TCE, cDCE, and/or VC were detected once or more above the their PCULs in samples during the Remedial Investigation
- Approximate extent of PCE, TCE, cDCE, and VC above the PCULs
- Approximate groundwater flow direction in unpumped conditions

Preliminary Cleanup Levels (PCULs):
PCE = 5.0 µg/L
TCE = 4.0 µg/L
cDCE = 16 µg/L
VC = 0.29 µg/L

Well (Screen Elevation)	
PCE	TCE
cDCE	VC

Coordinate Reference Point
(NAD83, Washington State Plane North, US Feet)

Notes:
All results shown from Quarter 2, 2021 when available. Locations indicated with * are the most recent available results prior to Quarter 2, 2021.
U = Not detected at or above the laboratory method detection limit (MDL)
J = The identification of the analyte is acceptable; the reported value is an estimate
J+ = The result is an estimated quantity, but the result may be biased high
J- = The result is an estimated quantity, but the result may be biased low
Detected results shown in bold, detections above the PCUL highlighted in gray
< = Not detected at or above the laboratory method detection limit
PCE = Perchloroethylene (tetrachloroethene)
TCE = Trichloroethene
cDCE = cis-1,2-Dichloroethene
VC = Vinyl Chloride
Results shown in micrograms per liter (µg/L)

ECOLOGY NOTES:

Benzene data added to this figure by Ecology.

"ND" = Not detected above laboratory reporting limit

Estimated area of benzene exceedances in groundwater

Benzene exceedance (>5 ug/L) in groundwater

PES Environmental, Inc.
Engineering & Environmental Services
AN NV5 COMPANY

FIGURE 43

2021 CVOCs in Groundwater - Intermediate B Zone
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North
Seattle, Washington

1413.001.02.502.01	14130010250201_RI21_41-44	DRAFT	4/22
DWG NUMBER	DRAWING NUMBER	REVIEWED BY	DATE

THIS DRAFT FIGURE CONTAINS ECOLOGY MARKUPS FOR DISCUSSION PURPOSES
(ORIGINAL SIZE IS 34 X 22 INCHES)

AMERICAN LINEN PROPERTY

SEATTLE CITY LIGHT PROPERTY

BLOCK 79 EAST PROPERTY

LAKE UNION

Aurora Avenue North | Valley Street | Dexter Avenue North | 8th Avenue North | 9th Avenue North | Westlake Avenue North | Broad Street | Mercer Street | Terry Avenue North | 625 Boren Avenue N (Block 31)

MW124 (-53.8 to -63.8)
0.0480 J | 0.0160 U
0.0276 U | 0.0273 U

MW102 (-65.8 to -75.8)
All non-detect.
Benzene ND

MW-304 (-47.6 to -57.6)
All non-detect.

MW-160 (-75.4 to -85.4)
0.0280 U | 0.353
11.1 | 4.05
Benzene ND

***MW104 (-76.3 to -86.3)**
1.52 | 29.8
43.9 | 9.58
Benzene 0.045

MW-161 (-85.6 to -95.6)
1.08 | 28.3
69.8 | 5.35
Benzene ND

MW-138 (-47.6 to -57.6)
0.0280 U | 0.0160 U
0.0730 J | 0.0760 J

MW-153 (-65.3 to -75.3)
0.0280 U | 0.0160 U
0.101 | 1.15 J-

MW105 (-85.3 to -95.3)
0.128 | 1.37
11.5 | 0.359
Benzene 0.161

***HMW-3D (-26.3 to -36.3)**
All non-detect.

MW106 (-78.0 to -88.0)
All non-detect.
Benzene ND

***HMW-2D (-32.8 to -42.8)**
0.20 U | 0.20 U
1.1 | 0.20 U

***HMW-13D (-44.2 to -54.2)**
All non-detect.

***HMW-12D (-48.5 to -58.5)**
0.20 U | 0.20 U
200 J | 3.9
Benzene ND

***HMW-1D (-42.0 to -52.0)**
21 | 110
910 | 6.0 U
Benzene ND

***HMW-10D (-30.8 to -40.8)**
All non-detect.

***HMW-14D (-23.7 to -33.7)**
All non-detect.

***HMW-9D (-24.6 to -34.4)**
0.89 | 0.20 U
5.1 | 0.97

***HMW-6D (-21.1 to -31.1)**
All non-detect.

MW122 (-75.0 to -85.0)
0.0360 J | 0.0160 U
0.0276 U | 0.0273 U
Benzene ND

MW123 (-42.5 to -52.5)
All non-detect.
Benzene ND

MW-319 (-42.8 to -52.8)
0.0900 J | 8.52
37.4 | 4.16
Benzene ND

MW-328 (-36.1 to -46.1)
0.0280 U | 0.0160 U
0.0276 U | 8.57
Benzene 6.19

MW-341 (-66.8 to -76.8)
0.0280 U | 0.0160 U
2.43 | 26.7
Benzene 17.6

MW-342 (-32.4 to -42.4)
0.0280 U | 0.0160 U
6.45 | 2.54
Benzene 0.526

MW-343 (-71.5 to -81.5)
0.0280 U | 0.0160 U
3.17 | 3.81
Benzene 0.139

MW-329 (-69.0 to -79.0)
0.0280 U | 0.0160 U
15.2 | 23.0
Benzene 0.601

MW113 (-36.8 to -46.8)
249 | 944
1,380 | 6.91
Benzene 0.331

MW103 (-67.6 to -77.6)
0.569 | 8.73
34.0 | 15.8
Benzene ND

MW-323 (-65.4 to -75.4)
0.0280 U | 0.0900
115 | 31.4
Benzene ND

FMW-140 (-38.0 to -48.0)
0.0280 U | 0.0160 U
2.12 | 15.8
Benzene 41

MW-324 (-32.1 to -42.1)
1.40 U | 1.95 J
3,470 | 45.6
Benzene ND

FMW-129 (-45.6 to -50.6)
91.1 | 197
517 | 0.0273 U
Benzene 0.127

MW-326 (-48.7 to -58.7)
0.219 | 0.496
3.53 | 0.109

MW-336 (-51.6 to -61.6)
0.120 | 3.12 J+
150 | 10.7
Benzene 0.128

MW-158A (-48.2 to -58.5)
0.0280 U | 0.0920
0.0900 J | 0.326 J-
Benzene ND

GEI-2 (-21.1 to -31.1)
0.0280 U | 0.0160 U
0.379 | 9.14
Benzene 2.19

FMW-131 (-34.7 to -44.7)
0.0280 U | 0.0160 U
9.83 | 0.428
Benzene 0.065

FMW-137 (-39.9 to -54.9)
0.0280 U | 0.0160 U
2.99 | 0.0273 U

***DW-18A (10 to -30)**
<2.0 | <2.0
28 | 22

***DW-17 (10 to -30)**
<2.0 | <2.0
320 | 45

***DW-16 (10 to -30)**
<4.0 | 6.9
800 | <4.0

***DW-15 (10 to -30)**
<0.2 | 0.69
38 | 0.33

Before Start of Block 38 West Dewatering

After Start of Block 38 West Dewatering

?

N 231800
E 1268300

0 60
SCALE IN FEET

Explanation

- Approximate Property Boundary
- SW-A — Lake Monitoring Location
- MW10S — Deep Zone Monitoring Well
- MW-165 — Treatment Zone A Monitoring Well
- MW-166 — Treatment Zone B Monitoring Well
- MW-167 — Treatment Zone C Monitoring Well
- MW-168 — Treatment Zone D Monitoring Well
- SV03 — Soil Vapor Monitoring Point
- DW-1 — Intermediate/Deep Dewatering Well (Farallon, 2/11/21)

- PCE, TCE, cDCE, and VC were not detected in samples during the Remedial Investigation
- PCE, TCE, cDCE, and VC were not detected above their PCULs in samples during the Remedial Investigation
- PCE, TCE, cDCE, and/or VC were detected once or more above the their PCULs in samples during the Remedial Investigation
- Approximate extent of PCE, TCE, cDCE, and VC above the PCULs
- Approximate groundwater flow direction in unpumped conditions

N 231800
E 1268300

Preliminary Cleanup Levels (PCULs):
PCE = 5.0 µg/L
TCE = 4.0 µg/L
cDCE = 16 µg/L
VC = 0.29 µg/L

Well (Screen Elevation)	
PCE	TCE
cDCE	VC

Coordinate Reference Point
(NAD83, Washington State Plane North, US Feet)

Notes:
All results shown from Quarter 2, 2021 when available. Locations indicated with * are the most recent available results prior to Quarter 2, 2021.
U = Not detected at or above the laboratory method detection limit (MDL)
J = The identification of the analyte is acceptable; the reported value is an estimate
J+ = The result is an estimated quantity, but the result may be biased high
J- = The result is an estimated quantity, but the result may be biased low
< = Not detected at or above the laboratory method detection limit
Detected results shown in bold, detections above the PCUL highlighted in gray
PCE = Perchloroethylene (tetrachloroethene)
TCE = Trichloroethene
cDCE = cis-1,2-Dichloroethene
VC = Vinyl Chloride
Results shown in micrograms per liter (µg/L)

ECOLOGY NOTES:

Benzene data added to this figure by Ecology.

"ND" = Not detected above laboratory reporting limit

Estimated area of benzene exceedances in groundwater

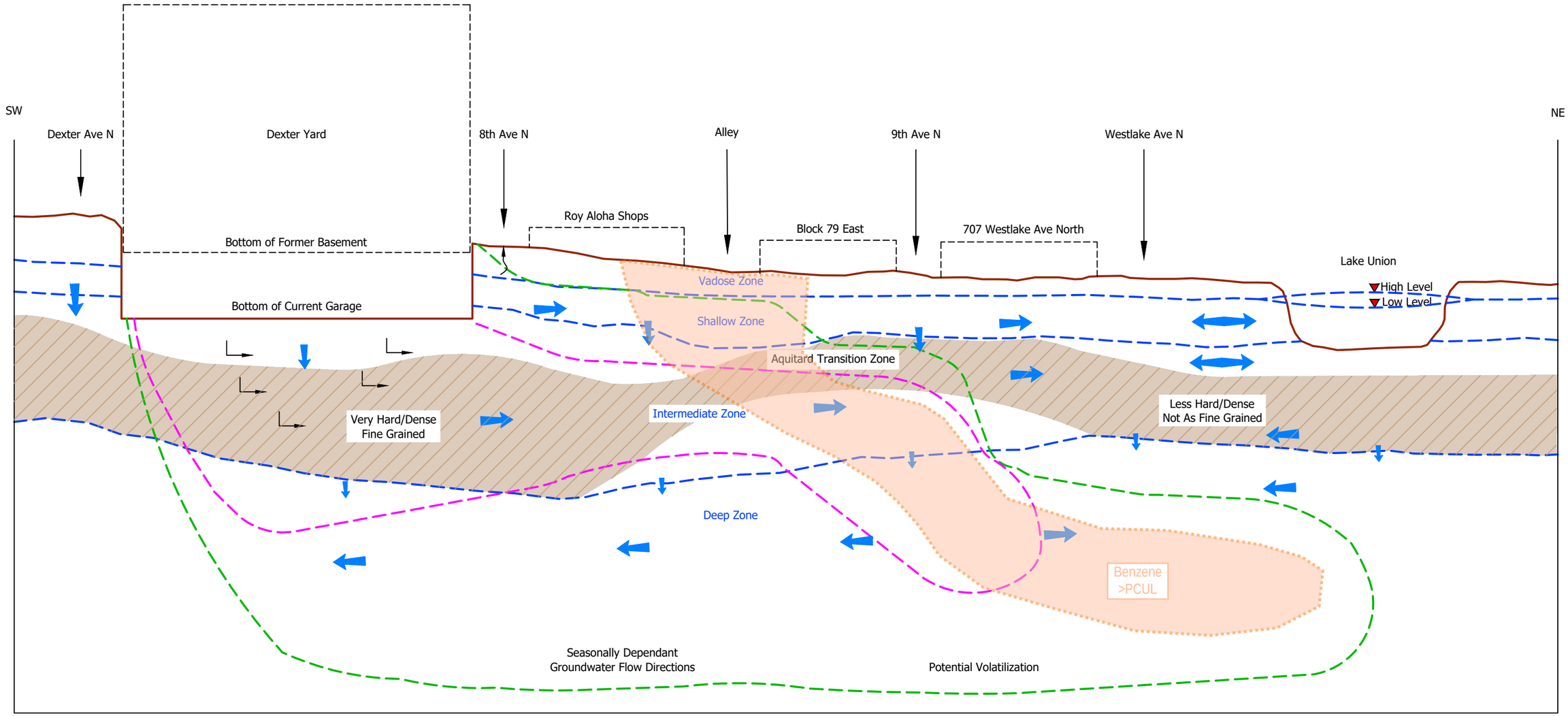
Benzene exceedance (>5 ug/L) in groundwater

PES Environmental, Inc.
Engineering & Environmental Services
AN NV5 COMPANY

2021 CVOCs in Groundwater - Deep Zone
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North
Seattle, Washington

FIGURE 44

1413.001.02.502.01	14130010250201_RI21_41-44	DRAFT	4/22
DWG NUMBER	DRAWING NUMBER	REVIEWED BY	DATE



PES Environmental, Inc.
Engineering & Environmental Services
AN NV5 COMPANY

Conceptual Site Model Cross Section
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North
Seattle, Washington

FIGURE
47

1413.001.02.502.01	14130010250201_RI21_47	DRAFT	10/22
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE

ATTACHMENT B

Laboratory Analytical Reports, August 2024 Groundwater Monitoring Event

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

SoundEarth Strategies, Inc.
Clare Tochilin
2811 Fairview Ave E, Ste 2000
Seattle, WA 98102

RE: Seattle Roy Aloha Shops, 1590-001
Work Order Number: 2408056

August 12, 2024

Attention Clare Tochilin:

Fremont Analytical, Inc, an Alliance Technical Group company, received 12 sample(s) on 8/5/2024 for the analyses presented in the following report.

Gasoline by NWTPH-Gx
Volatile Organic Compounds by EPA 8260D

All analyses were performed according to our accredited Quality Assurance program. Please contact the laboratory if you should have any questions about the results.

Please note, while the appearance of our logo and branding will update, our commitment to accuracy, speed, and customer service remain values celebrated and shared by Alliance Technical Group. Thank you for the opportunity to serve you.

Sincerely,

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.4 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Original

Date: *08/12/2024*

CLIENT: SoundEarth Strategies, Inc.
Project: Seattle Roy Aloha Shops
Work Order: 2408056

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2408056-001	MW144R_20240805	08/05/2024 9:25 AM	08/05/2024 3:20 PM
2408056-002	MW156_20240805	08/05/2024 12:40 PM	08/05/2024 3:20 PM
2408056-003	MW160_20240805	08/05/2024 11:55 AM	08/05/2024 3:20 PM
2408056-004	MW107_20240805	08/05/2024 11:00 AM	08/05/2024 3:20 PM
2408056-005	MW161_20240805	08/05/2024 10:15 AM	08/05/2024 3:20 PM
2408056-006	MW142_20240805	08/05/2024 2:18 PM	08/05/2024 3:20 PM
2408056-007	MW158A_20240805	08/05/2024 1:40 PM	08/05/2024 3:20 PM
2408056-008	MW341_20240805	08/05/2024 9:20 AM	08/05/2024 3:20 PM
2408056-009	MW328_20240805	08/05/2024 10:10 AM	08/05/2024 3:20 PM
2408056-010	MW128_20240805	08/05/2024 10:50 AM	08/05/2024 3:20 PM
2408056-011	MW329_20240805	08/05/2024 11:45 AM	08/05/2024 3:20 PM
2408056-012	MW323_20240805	08/05/2024 12:50 PM	08/05/2024 3:20 PM

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

Case Narrative

WO#: **2408056**

Date: **8/12/2024**

CLIENT: SoundEarth Strategies, Inc.

Project: Seattle Roy Aloha Shops

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: **2408056**
Date Reported: **8/12/2024**

Client: SoundEarth Strategies, Inc.
Collection Date: 8/5/2024 9:25:00 AM
Project: Seattle Roy Aloha Shops
Lab ID: 2408056-001
Matrix: Groundwater
Client Sample ID: **MW144R_20240805**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Gasoline by NWTPH-Gx				Batch ID: 44758		Analyst: KJ
Gasoline Range Organics	ND	50.0		µg/L	1	8/7/2024 2:17:42 PM
Surr: Toluene-d8	96.0	65 - 135		%Rec	1	8/7/2024 2:17:42 PM
Surr: 4-Bromofluorobenzene	91.7	65 - 135		%Rec	1	8/7/2024 2:17:42 PM
Volatile Organic Compounds by EPA 8260D				Batch ID: 44758		Analyst: KJ
Benzene	ND	0.200		µg/L	1	8/7/2024 2:17:42 PM
Toluene	ND	0.500		µg/L	1	8/7/2024 2:17:42 PM
Ethylbenzene	ND	0.500		µg/L	1	8/7/2024 2:17:42 PM
m,p-Xylene	ND	1.00		µg/L	1	8/7/2024 2:17:42 PM
o-Xylene	ND	0.500		µg/L	1	8/7/2024 2:17:42 PM
Surr: Dibromofluoromethane	101	82.4 - 122.4		%Rec	1	8/7/2024 2:17:42 PM
Surr: Toluene-d8	102	81.4 - 121.4		%Rec	1	8/7/2024 2:17:42 PM
Surr: 1-Bromo-4-fluorobenzene	107	80.1 - 120.1		%Rec	1	8/7/2024 2:17:42 PM

Analytical Report

Work Order: **2408056**
Date Reported: **8/12/2024**

Client: SoundEarth Strategies, Inc.
Collection Date: 8/5/2024 12:40:00 PM
Project: Seattle Roy Aloha Shops
Lab ID: 2408056-002
Matrix: Groundwater
Client Sample ID: **MW156_20240805**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Gasoline by NWTPH-Gx				Batch ID: 44758		Analyst: KJ
Gasoline Range Organics	453	50.0		µg/L	1	8/7/2024 7:44:34 PM
Surr: Toluene-d8	97.2	65 - 135		%Rec	1	8/7/2024 7:44:34 PM
Surr: 4-Bromofluorobenzene	87.1	65 - 135		%Rec	1	8/7/2024 7:44:34 PM
NOTES: Detection is due to non-petroleum compounds						
Volatile Organic Compounds by EPA 8260D				Batch ID: 44758		Analyst: KJ
Benzene	ND	0.200		µg/L	1	8/7/2024 7:44:34 PM
Toluene	ND	0.500		µg/L	1	8/7/2024 7:44:34 PM
Ethylbenzene	ND	0.500		µg/L	1	8/7/2024 7:44:34 PM
m,p-Xylene	ND	1.00		µg/L	1	8/7/2024 7:44:34 PM
o-Xylene	ND	0.500		µg/L	1	8/7/2024 7:44:34 PM
Surr: Dibromofluoromethane	111	82.4 - 122.4		%Rec	1	8/7/2024 7:44:34 PM
Surr: Toluene-d8	106	81.4 - 121.4		%Rec	1	8/7/2024 7:44:34 PM
Surr: 1-Bromo-4-fluorobenzene	101	80.1 - 120.1		%Rec	1	8/7/2024 7:44:34 PM

Analytical Report

Work Order: **2408056**
Date Reported: **8/12/2024**

Client: SoundEarth Strategies, Inc.
Collection Date: 8/5/2024 11:55:00 AM
Project: Seattle Roy Aloha Shops
Lab ID: 2408056-003
Matrix: Groundwater
Client Sample ID: **MW160_20240805**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Gasoline by NWTPH-Gx				Batch ID: 44758		Analyst: KJ
Gasoline Range Organics	ND	50.0		µg/L	1	8/8/2024 5:03:56 AM
Surr: Toluene-d8	93.8	65 - 135		%Rec	1	8/8/2024 5:03:56 AM
Surr: 4-Bromofluorobenzene	89.5	65 - 135		%Rec	1	8/8/2024 5:03:56 AM
Volatile Organic Compounds by EPA 8260D				Batch ID: 44758		Analyst: KJ
Benzene	ND	0.200		µg/L	1	8/8/2024 5:03:56 AM
Toluene	ND	0.500		µg/L	1	8/8/2024 5:03:56 AM
Ethylbenzene	ND	0.500		µg/L	1	8/8/2024 5:03:56 AM
m,p-Xylene	ND	1.00		µg/L	1	8/8/2024 5:03:56 AM
o-Xylene	ND	0.500		µg/L	1	8/8/2024 5:03:56 AM
Surr: Dibromofluoromethane	103	82.4 - 122.4		%Rec	1	8/8/2024 5:03:56 AM
Surr: Toluene-d8	104	81.4 - 121.4		%Rec	1	8/8/2024 5:03:56 AM
Surr: 1-Bromo-4-fluorobenzene	103	80.1 - 120.1		%Rec	1	8/8/2024 5:03:56 AM

Client: SoundEarth Strategies, Inc.
Collection Date: 8/5/2024 11:00:00 AM
Project: Seattle Roy Aloha Shops
Lab ID: 2408056-004
Matrix: Groundwater
Client Sample ID: **MW107_20240805**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Gasoline by NWTPH-Gx				Batch ID: 44758		Analyst: KJ
Gasoline Range Organics	ND	50.0		µg/L	1	8/7/2024 8:50:44 PM
Surr: Toluene-d8	96.6	65 - 135		%Rec	1	8/7/2024 8:50:44 PM
Surr: 4-Bromofluorobenzene	88.9	65 - 135		%Rec	1	8/7/2024 8:50:44 PM
Volatile Organic Compounds by EPA 8260D				Batch ID: 44758		Analyst: KJ
Benzene	ND	0.200		µg/L	1	8/7/2024 8:50:44 PM
Toluene	ND	0.500		µg/L	1	8/7/2024 8:50:44 PM
Ethylbenzene	ND	0.500		µg/L	1	8/7/2024 8:50:44 PM
m,p-Xylene	ND	1.00		µg/L	1	8/7/2024 8:50:44 PM
o-Xylene	ND	0.500		µg/L	1	8/7/2024 8:50:44 PM
Surr: Dibromofluoromethane	101	82.4 - 122.4		%Rec	1	8/7/2024 8:50:44 PM
Surr: Toluene-d8	102	81.4 - 121.4		%Rec	1	8/7/2024 8:50:44 PM
Surr: 1-Bromo-4-fluorobenzene	103	80.1 - 120.1		%Rec	1	8/7/2024 8:50:44 PM

Analytical Report

Work Order: **2408056**
Date Reported: **8/12/2024**

Client: SoundEarth Strategies, Inc.
Collection Date: 8/5/2024 10:15:00 AM
Project: Seattle Roy Aloha Shops
Lab ID: 2408056-005
Matrix: Groundwater
Client Sample ID: **MW161_20240805**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Gasoline by NWTPH-Gx				Batch ID: 44758		Analyst: KJ
Gasoline Range Organics	ND	50.0		µg/L	1	8/7/2024 9:23:46 PM
Surr: Toluene-d8	96.6	65 - 135		%Rec	1	8/7/2024 9:23:46 PM
Surr: 4-Bromofluorobenzene	88.4	65 - 135		%Rec	1	8/7/2024 9:23:46 PM
Volatile Organic Compounds by EPA 8260D				Batch ID: 44758		Analyst: KJ
Benzene	ND	0.200		µg/L	1	8/7/2024 9:23:46 PM
Toluene	ND	0.500		µg/L	1	8/7/2024 9:23:46 PM
Ethylbenzene	ND	0.500		µg/L	1	8/7/2024 9:23:46 PM
m,p-Xylene	ND	1.00		µg/L	1	8/7/2024 9:23:46 PM
o-Xylene	ND	0.500		µg/L	1	8/7/2024 9:23:46 PM
Surr: Dibromofluoromethane	100	82.4 - 122.4		%Rec	1	8/7/2024 9:23:46 PM
Surr: Toluene-d8	107	81.4 - 121.4		%Rec	1	8/7/2024 9:23:46 PM
Surr: 1-Bromo-4-fluorobenzene	101	80.1 - 120.1		%Rec	1	8/7/2024 9:23:46 PM

Analytical Report

Work Order: **2408056**
Date Reported: **8/12/2024**

Client: SoundEarth Strategies, Inc.
Collection Date: 8/5/2024 2:18:00 PM
Project: Seattle Roy Aloha Shops
Lab ID: 2408056-006
Matrix: Groundwater
Client Sample ID: **MW142_20240805**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Gasoline by NWTPH-Gx				Batch ID: 44758		Analyst: KJ
Gasoline Range Organics	53.9	50.0		µg/L	1	8/7/2024 9:56:50 PM
Surr: Toluene-d8	96.3	65 - 135		%Rec	1	8/7/2024 9:56:50 PM
Surr: 4-Bromofluorobenzene	88.6	65 - 135		%Rec	1	8/7/2024 9:56:50 PM
NOTES: Detection is due to non-petroleum compounds						
Volatile Organic Compounds by EPA 8260D				Batch ID: 44758		Analyst: KJ
Benzene	0.258	0.200		µg/L	1	8/7/2024 9:56:50 PM
Toluene	ND	0.500		µg/L	1	8/7/2024 9:56:50 PM
Ethylbenzene	ND	0.500		µg/L	1	8/7/2024 9:56:50 PM
m,p-Xylene	ND	1.00		µg/L	1	8/7/2024 9:56:50 PM
o-Xylene	ND	0.500		µg/L	1	8/7/2024 9:56:50 PM
Surr: Dibromofluoromethane	106	82.4 - 122.4		%Rec	1	8/7/2024 9:56:50 PM
Surr: Toluene-d8	104	81.4 - 121.4		%Rec	1	8/7/2024 9:56:50 PM
Surr: 1-Bromo-4-fluorobenzene	102	80.1 - 120.1		%Rec	1	8/7/2024 9:56:50 PM

Analytical Report

Work Order: **2408056**
Date Reported: **8/12/2024**

Client: SoundEarth Strategies, Inc.
Collection Date: 8/5/2024 1:40:00 PM
Project: Seattle Roy Aloha Shops
Lab ID: 2408056-007
Matrix: Groundwater
Client Sample ID: **MW158A_20240805**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Gasoline by NWTPH-Gx				Batch ID: 44758		Analyst: KJ
Gasoline Range Organics	ND	50.0		µg/L	1	8/7/2024 10:29:54 PM
Surr: Toluene-d8	95.2	65 - 135		%Rec	1	8/7/2024 10:29:54 PM
Surr: 4-Bromofluorobenzene	87.6	65 - 135		%Rec	1	8/7/2024 10:29:54 PM
Volatile Organic Compounds by EPA 8260D				Batch ID: 44758		Analyst: KJ
Benzene	ND	0.200		µg/L	1	8/7/2024 10:29:54 PM
Toluene	ND	0.500		µg/L	1	8/7/2024 10:29:54 PM
Ethylbenzene	ND	0.500		µg/L	1	8/7/2024 10:29:54 PM
m,p-Xylene	ND	1.00		µg/L	1	8/7/2024 10:29:54 PM
o-Xylene	ND	0.500		µg/L	1	8/7/2024 10:29:54 PM
Surr: Dibromofluoromethane	100	82.4 - 122.4		%Rec	1	8/7/2024 10:29:54 PM
Surr: Toluene-d8	108	81.4 - 121.4		%Rec	1	8/7/2024 10:29:54 PM
Surr: 1-Bromo-4-fluorobenzene	102	80.1 - 120.1		%Rec	1	8/7/2024 10:29:54 PM

Analytical Report

Work Order: **2408056**
Date Reported: **8/12/2024**

Client: SoundEarth Strategies, Inc.
Collection Date: 8/5/2024 9:20:00 AM
Project: Seattle Roy Aloha Shops
Lab ID: 2408056-008
Matrix: Groundwater
Client Sample ID: **MW341_20240805**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Gasoline by NWTPH-Gx				Batch ID: 44758		Analyst: KJ
Gasoline Range Organics	53.1	50.0		µg/L	1	8/7/2024 11:02:59 PM
Surr: Toluene-d8	96.6	65 - 135		%Rec	1	8/7/2024 11:02:59 PM
Surr: 4-Bromofluorobenzene	87.0	65 - 135		%Rec	1	8/7/2024 11:02:59 PM
NOTES: Detection is due to non-petroleum compounds						
Volatile Organic Compounds by EPA 8260D				Batch ID: 44758		Analyst: KJ
Benzene	19.3	0.200		µg/L	1	8/7/2024 11:02:59 PM
Toluene	ND	0.500		µg/L	1	8/7/2024 11:02:59 PM
Ethylbenzene	ND	0.500		µg/L	1	8/7/2024 11:02:59 PM
m,p-Xylene	ND	1.00		µg/L	1	8/7/2024 11:02:59 PM
o-Xylene	ND	0.500		µg/L	1	8/7/2024 11:02:59 PM
Surr: Dibromofluoromethane	102	82.4 - 122.4		%Rec	1	8/7/2024 11:02:59 PM
Surr: Toluene-d8	101	81.4 - 121.4		%Rec	1	8/7/2024 11:02:59 PM
Surr: 1-Bromo-4-fluorobenzene	101	80.1 - 120.1		%Rec	1	8/7/2024 11:02:59 PM

Analytical Report

Work Order: **2408056**
Date Reported: **8/12/2024**

Client: SoundEarth Strategies, Inc.
Collection Date: 8/5/2024 10:10:00 AM
Project: Seattle Roy Aloha Shops
Lab ID: 2408056-009
Matrix: Groundwater
Client Sample ID: **MW328_20240805**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Gasoline by NWTPH-Gx				Batch ID: 44758		Analyst: KJ
Gasoline Range Organics	ND	50.0		µg/L	1	8/7/2024 11:36:02 PM
Surr: Toluene-d8	96.2	65 - 135		%Rec	1	8/7/2024 11:36:02 PM
Surr: 4-Bromofluorobenzene	87.4	65 - 135		%Rec	1	8/7/2024 11:36:02 PM
Volatile Organic Compounds by EPA 8260D				Batch ID: 44758		Analyst: KJ
Benzene	ND	0.200		µg/L	1	8/7/2024 11:36:02 PM
Toluene	ND	0.500		µg/L	1	8/7/2024 11:36:02 PM
Ethylbenzene	ND	0.500		µg/L	1	8/7/2024 11:36:02 PM
m,p-Xylene	ND	1.00		µg/L	1	8/7/2024 11:36:02 PM
o-Xylene	ND	0.500		µg/L	1	8/7/2024 11:36:02 PM
Surr: Dibromofluoromethane	94.1	82.4 - 122.4		%Rec	1	8/7/2024 11:36:02 PM
Surr: Toluene-d8	102	81.4 - 121.4		%Rec	1	8/7/2024 11:36:02 PM
Surr: 1-Bromo-4-fluorobenzene	100	80.1 - 120.1		%Rec	1	8/7/2024 11:36:02 PM

Analytical Report

Work Order: **2408056**
Date Reported: **8/12/2024**

Client: SoundEarth Strategies, Inc.
Collection Date: 8/5/2024 10:50:00 AM
Project: Seattle Roy Aloha Shops
Lab ID: 2408056-010
Matrix: Groundwater
Client Sample ID: **MW128_20240805**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Gasoline by NWTPH-Gx				Batch ID: 44758		Analyst: KJ
Gasoline Range Organics	ND	50.0		µg/L	1	8/8/2024 3:24:43 AM
Surr: Toluene-d8	94.9	65 - 135		%Rec	1	8/8/2024 3:24:43 AM
Surr: 4-Bromofluorobenzene	89.6	65 - 135		%Rec	1	8/8/2024 3:24:43 AM
Volatile Organic Compounds by EPA 8260D				Batch ID: 44758		Analyst: KJ
Benzene	11.4	0.200		µg/L	1	8/8/2024 3:24:43 AM
Toluene	ND	0.500		µg/L	1	8/8/2024 3:24:43 AM
Ethylbenzene	ND	0.500		µg/L	1	8/8/2024 3:24:43 AM
m,p-Xylene	ND	1.00		µg/L	1	8/8/2024 3:24:43 AM
o-Xylene	ND	0.500		µg/L	1	8/8/2024 3:24:43 AM
Surr: Dibromofluoromethane	103	82.4 - 122.4		%Rec	1	8/8/2024 3:24:43 AM
Surr: Toluene-d8	109	81.4 - 121.4		%Rec	1	8/8/2024 3:24:43 AM
Surr: 1-Bromo-4-fluorobenzene	102	80.1 - 120.1		%Rec	1	8/8/2024 3:24:43 AM

Analytical Report

Work Order: **2408056**
Date Reported: **8/12/2024**

Client: SoundEarth Strategies, Inc.
Collection Date: 8/5/2024 11:45:00 AM
Project: Seattle Roy Aloha Shops
Lab ID: 2408056-011
Matrix: Groundwater
Client Sample ID: **MW329_20240805**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Gasoline by NWTPH-Gx				Batch ID: 44758		Analyst: KJ
Gasoline Range Organics	ND	50.0		µg/L	1	8/8/2024 3:57:48 AM
Surr: Toluene-d8	93.9	65 - 135		%Rec	1	8/8/2024 3:57:48 AM
Surr: 4-Bromofluorobenzene	89.9	65 - 135		%Rec	1	8/8/2024 3:57:48 AM
Volatile Organic Compounds by EPA 8260D				Batch ID: 44758		Analyst: KJ
Benzene	0.203	0.200		µg/L	1	8/8/2024 3:57:48 AM
Toluene	ND	0.500		µg/L	1	8/8/2024 3:57:48 AM
Ethylbenzene	ND	0.500		µg/L	1	8/8/2024 3:57:48 AM
m,p-Xylene	ND	1.00		µg/L	1	8/8/2024 3:57:48 AM
o-Xylene	ND	0.500		µg/L	1	8/8/2024 3:57:48 AM
Surr: Dibromofluoromethane	100	82.4 - 122.4		%Rec	1	8/8/2024 3:57:48 AM
Surr: Toluene-d8	105	81.4 - 121.4		%Rec	1	8/8/2024 3:57:48 AM
Surr: 1-Bromo-4-fluorobenzene	105	80.1 - 120.1		%Rec	1	8/8/2024 3:57:48 AM

Analytical Report

Work Order: **2408056**
Date Reported: **8/12/2024**

Client: SoundEarth Strategies, Inc.
Collection Date: 8/5/2024 12:50:00 PM
Project: Seattle Roy Aloha Shops
Lab ID: 2408056-012
Matrix: Groundwater
Client Sample ID: **MW323_20240805**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Gasoline by NWTPH-Gx				Batch ID: 44758		Analyst: KJ
Gasoline Range Organics	476	50.0		µg/L	1	8/8/2024 4:30:53 AM
Surr: Toluene-d8	94.6	65 - 135		%Rec	1	8/8/2024 4:30:53 AM
Surr: 4-Bromofluorobenzene	88.6	65 - 135		%Rec	1	8/8/2024 4:30:53 AM
NOTES: Detection is due to non-petroleum compounds						
Volatile Organic Compounds by EPA 8260D				Batch ID: 44758		Analyst: KJ
Benzene	ND	0.200		µg/L	1	8/8/2024 4:30:53 AM
Toluene	ND	0.500		µg/L	1	8/8/2024 4:30:53 AM
Ethylbenzene	ND	0.500		µg/L	1	8/8/2024 4:30:53 AM
m,p-Xylene	ND	1.00		µg/L	1	8/8/2024 4:30:53 AM
o-Xylene	ND	0.500		µg/L	1	8/8/2024 4:30:53 AM
Surr: Dibromofluoromethane	118	82.4 - 122.4		%Rec	1	8/8/2024 4:30:53 AM
Surr: Toluene-d8	107	81.4 - 121.4		%Rec	1	8/8/2024 4:30:53 AM
Surr: 1-Bromo-4-fluorobenzene	102	80.1 - 120.1		%Rec	1	8/8/2024 4:30:53 AM

Work Order: 2408056
CLIENT: SoundEarth Strategies, Inc.
Project: Seattle Roy Aloha Shops

QC SUMMARY REPORT

Gasoline by NWTPH-Gx

Sample ID: **LCS-44758**	SampType: **LCS**	Units: **µg/L**	Prep Date: **8/6/2024**	RunNo: **93506**
Client ID: **LCSW**	Batch ID: **44758**		Analysis Date: **8/7/2024**	SeqNo: **1952122**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	472	50.0	500.0	0	94.4	65	135				
Surr: Toluene-d8	24.1		25.00		96.6	65	135				
Surr: 4-Bromofluorobenzene	22.1		25.00		88.6	65	135				

Sample ID: **MB-44758**	SampType: **MBLK**	Units: **µg/L**	Prep Date: **8/6/2024**	RunNo: **93506**
Client ID: **MBLKW**	Batch ID: **44758**		Analysis Date: **8/7/2024**	SeqNo: **1952098**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	50.0									
Surr: Toluene-d8	23.9		25.00		95.4	65	135				
Surr: 4-Bromofluorobenzene	22.1		25.00		88.5	65	135				

Sample ID: **2408056-001ADUP**	SampType: **DUP**	Units: **µg/L**	Prep Date: **8/6/2024**	RunNo: **93506**
Client ID: **MW144R_20240805**	Batch ID: **44758**		Analysis Date: **8/7/2024**	SeqNo: **1952100**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	50.0						0		30	
Surr: Toluene-d8	24.2		25.00		96.8	65	135		0		
Surr: 4-Bromofluorobenzene	21.8		25.00		87.1	65	135		0		

Sample ID: **2408079-001ADUP**	SampType: **DUP**	Units: **µg/L**	Prep Date: **8/6/2024**	RunNo: **93506**
Client ID: **BATCH**	Batch ID: **44758**		Analysis Date: **8/8/2024**	SeqNo: **1952117**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	915	50.0						922.3	0.743	30	
Surr: Toluene-d8	23.4		25.00		93.4	65	135		0		
Surr: 4-Bromofluorobenzene	22.2		25.00		88.8	65	135		0		

NOTES:
Detection is due to non-petroleum compounds

Work Order: 2408056
CLIENT: SoundEarth Strategies, Inc.
Project: Seattle Roy Aloha Shops

QC SUMMARY REPORT

Volatile Organic Compounds by EPA 8260D

Sample ID: **LCS-44758** SampType: **LCS** Units: **µg/L** Prep Date: **8/6/2024** RunNo: **93505**
Client ID: **LCSW** Batch ID: **44758** Analysis Date: **8/7/2024** SeqNo: **1952063**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.0	0.200	20.00	0	105	80	120				
Toluene	20.1	0.500	20.00	0	101	80	120				
Ethylbenzene	19.9	0.500	20.00	0	99.3	80	120				
m,p-Xylene	38.2	1.00	40.00	0	95.4	80	120				
o-Xylene	19.4	0.500	20.00	0	97.1	80	120				
Surr: Dibromofluoromethane	26.6		25.00		106	82.4	122.4				
Surr: Toluene-d8	25.2		25.00		101	81.4	121.4				
Surr: 1-Bromo-4-fluorobenzene	23.7		25.00		94.9	80.1	120.1				

Sample ID: **MB-44758** SampType: **MBLK** Units: **µg/L** Prep Date: **8/6/2024** RunNo: **93505**
Client ID: **MBLKW** Batch ID: **44758** Analysis Date: **8/7/2024** SeqNo: **1952036**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.200									
Toluene	ND	0.500									
Ethylbenzene	ND	0.500									
m,p-Xylene	ND	1.00									
o-Xylene	ND	0.500									
Surr: Dibromofluoromethane	25.3		25.00		101	80	120				
Surr: Toluene-d8	26.5		25.00		106	80	120				
Surr: 1-Bromo-4-fluorobenzene	25.1		25.00		100	80	120				

Sample ID: **2408056-001ADUP** SampType: **DUP** Units: **µg/L** Prep Date: **8/6/2024** RunNo: **93505**
Client ID: **MW144R_20240805** Batch ID: **44758** Analysis Date: **8/7/2024** SeqNo: **1952038**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.200						0		30	
Toluene	ND	0.500						0		30	
Ethylbenzene	ND	0.500						0		30	
m,p-Xylene	ND	1.00						0		30	
o-Xylene	ND	0.500						0		30	

Work Order: 2408056
CLIENT: SoundEarth Strategies, Inc.
Project: Seattle Roy Aloha Shops

QC SUMMARY REPORT

Volatile Organic Compounds by EPA 8260D

Sample ID: **2408056-001ADUP** SampType: **DUP** Units: **µg/L** Prep Date: **8/6/2024** RunNo: **93505**
Client ID: **MW144R_20240805** Batch ID: **44758** Analysis Date: **8/7/2024** SeqNo: **1952038**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	25.6		25.00		102	82.4	122.4		0		
Surr: Toluene-d8	25.8		25.00		103	81.4	121.4		0		
Surr: 1-Bromo-4-fluorobenzene	25.3		25.00		101	80.1	120.1		0		

Sample ID: **2408021-001AMS** SampType: **MS** Units: **µg/L** Prep Date: **8/6/2024** RunNo: **93505**
Client ID: **BATCH** Batch ID: **44758** Analysis Date: **8/8/2024** SeqNo: **1952051**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	23.5	0.200	20.00	0	117	71.5	141				
Toluene	23.0	0.500	20.00	0	115	70.9	138				
Ethylbenzene	22.3	0.500	20.00	0	112	77.1	130				
m,p-Xylene	43.2	1.00	40.00	0	108	75.7	131				
o-Xylene	21.3	0.500	20.00	0	107	73	132				
Surr: Dibromofluoromethane	28.2		25.00		113	82.4	122.4				
Surr: Toluene-d8	26.0		25.00		104	81.4	121.4				
Surr: 1-Bromo-4-fluorobenzene	24.2		25.00		96.7	80.1	120.1				

Sample ID: **2408079-001ADUP** SampType: **DUP** Units: **µg/L** Prep Date: **8/6/2024** RunNo: **93505**
Client ID: **BATCH** Batch ID: **44758** Analysis Date: **8/8/2024** SeqNo: **1952058**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	2.27	0.200						2.284	0.507	30	
Toluene	ND	0.500						0		30	
Ethylbenzene	ND	0.500						0		30	
m,p-Xylene	ND	1.00						0		30	
o-Xylene	ND	0.500						0		30	
Surr: Dibromofluoromethane	29.6		25.00		118	82.4	122.4		0		
Surr: Toluene-d8	25.8		25.00		103	81.4	121.4		0		
Surr: 1-Bromo-4-fluorobenzene	25.6		25.00		103	80.1	120.1		0		

Work Order: 2408056
CLIENT: SoundEarth Strategies, Inc.
Project: Seattle Roy Aloha Shops

QC SUMMARY REPORT

Volatile Organic Compounds by EPA 8260D

Sample ID: **2408021-001AMS** SampType: **MS** Units: **µg/L** Prep Date: **8/6/2024** RunNo: **93505**
Client ID: **BATCH** Batch ID: **44758** Analysis Date: **8/9/2024** SeqNo: **1952492**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	26.3	0.200	20.00	0	132	71.5	141				
Toluene	24.6	0.500	20.00	0	123	70.9	138				
Ethylbenzene	22.6	0.500	20.00	0	113	77.1	130				
m,p-Xylene	42.6	1.00	40.00	0	106	75.7	131				
o-Xylene	21.2	0.500	20.00	0	106	73	132				
Surr: Dibromofluoromethane	29.0		25.00		116	82.4	122.4				
Surr: Toluene-d8	27.3		25.00		109	81.4	121.4				
Surr: 1-Bromo-4-fluorobenzene	25.3		25.00		101	80.1	120.1				

Sample Log-In Check List

Client Name:	SES	Work Order Number:	2408056
Logged by:	Clare Griggs	Date Received:	8/5/2024 3:20:00 PM

Chain of Custody

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

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 °C
Sample	0.5

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

Fremont Analytical
An Affiliate Technical Group Company
3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790

Chain of Custody Record & Laboratory Services Agreement

Date: 8/5/24 Page: 1 of: 2

Laboratory Project No (internal): 2408056

Project Name: Seattle Roy Aloha Shops

Special Remarks:
Direct Bill to Seattle City Light
scl_apinvoice@seattle.gov
-Include PRN#
-SCL Project Manager:

Client: SoundEarth Strategies

Project No: 1590-001

Address: 1011 SW Klickitat Way

Collected by: Nolan Conway

City, State, Zip: Seattle, WA 98134

Location: 800 Aloha Street, Seattle, Washington

Telephone: 206-306-1900

Report To (PM): Clare Tochilin

Disposal: Samples will be disposed in 30 days unless otherwise requested.
☐ Retain volume (specify above) ☐ Return to client

Email(s): ctochilin@soundearthinc.com

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T)	Dissolved (D)	Anions (IC)***	EDB (8011)	Comments
1 MW144R_20240805	8/5/24	0925	GW	3		X	X											
2 MW156_20240805		1240	GW	3		X	X											
3 MW160_20240805		1155	GW	3		X	X											
4 MW107_20240805		1100	GW	3		X	X											
5 MW161_20240805		1015	GW	3		X	X											
6 MW142_20240805		1418	GW	3		X	X											
7 MW158A_20240805		1340	GW	3		X	X											
8 MW341_20240805		0920	GW	3		X	X											
9 MW328_20240805		1010	GW	3		X	X											
10 MW128_20240805		1050	GW	3		X	X											

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL *Individual:* Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

Turn-around Time:
☐ Standard ☐ Next Day
☐ 3 Day ☐ Same Day
☐ 2 Day ☐ _____ (specify)

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature)	Print Name	Date/Time	Received (Signature)	Print Name	Date/Time
x Nolan Conway	NOLAN CONWAY	8/5/24 1520	x	Nathan Walters	8/5/24 1520
Relinquished (Signature)	Print Name	Date/Time	Received (Signature)	Print Name	Date/Time
x			x		

Fremont Analytical
An Alliance Technical Group Company
3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790

Chain of Custody Record & Laboratory Services Agreement

Date: 8/5/24 Page: 2 of: 2

Laboratory Project No (internal): 2408056

Project Name: Seattle Roy Aloha Shops

Special Remarks:
Direct Bill to Seattle City Light
scl_apinvoice@seattle.gov
-Include PRN#
-SCL Project Manager:

Client: SoundEarth Strategies

Project No: 1590-001

Address: 1011 SW Klickitat Way

Collected by: Nolan Conway

City, State, Zip: Seattle, WA 98134

Location: 800 Aloha Street, Seattle, Washington

Telephone: 206-306-1900

Report To (PM): Clare Tochilin

Disposal: Samples will be disposed in 30 days unless otherwise requested.
☐ Retain volume (specify above) ☐ Return to client

Email(s): ctochilin@soundearthinc.com

	Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8) Total (T) | Dissolved (D)	Anions (IC)***	EDB (8011)	Comments
1	MW329_20240805	8/5/24	1145	GW	3		X	X									
2	MW323_20240805	"	1250	GW	3		X	X									
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

8/5/24
NCC

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL *Individual:* Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

Turn-around Time:
☐ Standard ☐ Next Day
☐ 3 Day ☐ Same Day
☐ 2 Day ____ (specify)

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature)	Print Name	Date/Time	Received (Signature)	Print Name	Date/Time
x Nolan Conway	NOLAN CONWAY	8/5/24 1520	x	Nathan Walker	8/5/24 1520
Relinquished (Signature)	Print Name	Date/Time	Received (Signature)	Print Name	Date/Time
x			x		

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

SoundEarth Strategies, Inc.
Clare Tochilin
2811 Fairview Ave E, Ste 2000
Seattle, WA 98102

RE: SCL Aloha St Shops, 1590-001
Work Order Number: 2408079

August 13, 2024

Attention Clare Tochilin:

Fremont Analytical, Inc, an Alliance Technical Group company, received 13 sample(s) on 8/6/2024 for the analyses presented in the following report.

Gasoline by NWTPH-Gx
Volatile Organic Compounds by EPA 8260D

All analyses were performed according to our accredited Quality Assurance program. Please contact the laboratory if you should have any questions about the results.

Please note, while the appearance of our logo and branding will update, our commitment to accuracy, speed, and customer service remain values celebrated and shared by Alliance Technical Group. Thank you for the opportunity to serve you.

Sincerely,

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.4 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Original

Date: *08/13/2024*

CLIENT: SoundEarth Strategies, Inc.
Project: SCL Aloha St Shops
Work Order: 2408079

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2408079-001	MW322_20240806	08/06/2024 7:20 AM	08/06/2024 2:30 PM
2408079-002	MW318_20240806	08/06/2024 8:05 AM	08/06/2024 2:30 PM
2408079-003	MW111_20240806	08/06/2024 9:10 AM	08/06/2024 2:30 PM
2408079-004	MW103_20240806	08/06/2024 9:55 AM	08/06/2024 2:30 PM
2408079-005	MW109_20240806	08/06/2024 10:50 AM	08/06/2024 2:30 PM
2408079-006	MW311_20240806	08/06/2024 11:45 AM	08/06/2024 2:30 PM
2408079-007	MW108_20240806	08/06/2024 12:45 PM	08/06/2024 2:30 PM
2408079-008	MW104_20240806	08/06/2024 8:29 AM	08/06/2024 2:30 PM
2408079-009	MW143_20240806	08/06/2024 9:30 AM	08/06/2024 2:30 PM
2408079-010	EAN009_20240806	08/06/2024 10:30 AM	08/06/2024 2:30 PM
2408079-011	MW127_20240806	08/06/2024 11:17 AM	08/06/2024 2:30 PM
2408079-012	MW120_20240806	08/06/2024 12:30 PM	08/06/2024 2:30 PM
2408079-013	SCS001_20240806	08/06/2024 1:25 PM	08/06/2024 2:30 PM

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

Case Narrative

WO#: **2408079**

Date: **8/13/2024**

CLIENT: SoundEarth Strategies, Inc.

Project: SCL Aloha St Shops

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: **2408079**
Date Reported: **8/13/2024**

Client: SoundEarth Strategies, Inc.
Collection Date: 8/6/2024 7:20:00 AM
Project: SCL Aloha St Shops
Lab ID: 2408079-001
Matrix: Water
Client Sample ID: **MW322_20240806**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Gasoline by NWTPH-Gx				Batch ID: 44758		Analyst: KJ
Gasoline Range Organics	922	50.0		µg/L	1	8/8/2024 5:37:00 AM
Surr: Toluene-d8	95.3	65 - 135		%Rec	1	8/8/2024 5:37:00 AM
Surr: 4-Bromofluorobenzene	88.9	65 - 135		%Rec	1	8/8/2024 5:37:00 AM
NOTES: Detection is due to non-petroleum compounds						
Volatile Organic Compounds by EPA 8260D				Batch ID: 44758		Analyst: KJ
Benzene	2.28	0.200		µg/L	1	8/8/2024 5:37:00 AM
Toluene	ND	0.500		µg/L	1	8/8/2024 5:37:00 AM
Ethylbenzene	ND	0.500		µg/L	1	8/8/2024 5:37:00 AM
m,p-Xylene	ND	1.00		µg/L	1	8/8/2024 5:37:00 AM
o-Xylene	ND	0.500		µg/L	1	8/8/2024 5:37:00 AM
Surr: Dibromofluoromethane	117	82.4 - 122.4		%Rec	1	8/8/2024 5:37:00 AM
Surr: Toluene-d8	106	81.4 - 121.4		%Rec	1	8/8/2024 5:37:00 AM
Surr: 1-Bromo-4-fluorobenzene	102	80.1 - 120.1		%Rec	1	8/8/2024 5:37:00 AM

Analytical Report

Work Order: **2408079**
Date Reported: **8/13/2024**

Client: SoundEarth Strategies, Inc.
Collection Date: 8/6/2024 8:05:00 AM
Project: SCL Aloha St Shops
Lab ID: 2408079-002
Matrix: Water
Client Sample ID: **MW318_20240806**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Gasoline by NWTPH-Gx				Batch ID: 44758		Analyst: KJ
Gasoline Range Organics	74.7	50.0		µg/L	1	8/8/2024 6:43:08 AM
Surr: Toluene-d8	96.6	65 - 135		%Rec	1	8/8/2024 6:43:08 AM
Surr: 4-Bromofluorobenzene	86.4	65 - 135		%Rec	1	8/8/2024 6:43:08 AM
NOTES: Detection is due to non-petroleum compounds						
Volatile Organic Compounds by EPA 8260D				Batch ID: 44758		Analyst: KJ
Benzene	40.9	2.00	D	µg/L	10	8/9/2024 1:56:16 AM
Toluene	ND	0.500		µg/L	1	8/8/2024 6:43:08 AM
Ethylbenzene	ND	0.500		µg/L	1	8/8/2024 6:43:08 AM
m,p-Xylene	ND	1.00		µg/L	1	8/8/2024 6:43:08 AM
o-Xylene	ND	0.500		µg/L	1	8/8/2024 6:43:08 AM
Surr: Dibromofluoromethane	109	82.4 - 122.4		%Rec	1	8/8/2024 6:43:08 AM
Surr: Toluene-d8	107	81.4 - 121.4		%Rec	1	8/8/2024 6:43:08 AM
Surr: 1-Bromo-4-fluorobenzene	101	80.1 - 120.1		%Rec	1	8/8/2024 6:43:08 AM

Analytical Report

Work Order: **2408079**
Date Reported: **8/13/2024**

Client: SoundEarth Strategies, Inc.
Collection Date: 8/6/2024 9:10:00 AM
Project: SCL Aloha St Shops
Lab ID: 2408079-003
Matrix: Water
Client Sample ID: **MW111_20240806**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Gasoline by NWTPH-Gx				Batch ID: 44758		Analyst: KJ
Gasoline Range Organics	ND	50.0		µg/L	1	8/8/2024 7:16:13 AM
Surr: Toluene-d8	93.9	65 - 135		%Rec	1	8/8/2024 7:16:13 AM
Surr: 4-Bromofluorobenzene	88.6	65 - 135		%Rec	1	8/8/2024 7:16:13 AM
Volatile Organic Compounds by EPA 8260D				Batch ID: 44758		Analyst: KJ
Benzene	ND	0.200		µg/L	1	8/8/2024 7:16:13 AM
Toluene	ND	0.500		µg/L	1	8/8/2024 7:16:13 AM
Ethylbenzene	ND	0.500		µg/L	1	8/8/2024 7:16:13 AM
m,p-Xylene	ND	1.00		µg/L	1	8/8/2024 7:16:13 AM
o-Xylene	ND	0.500		µg/L	1	8/8/2024 7:16:13 AM
Surr: Dibromofluoromethane	99.7	82.4 - 122.4		%Rec	1	8/8/2024 7:16:13 AM
Surr: Toluene-d8	110	81.4 - 121.4		%Rec	1	8/8/2024 7:16:13 AM
Surr: 1-Bromo-4-fluorobenzene	103	80.1 - 120.1		%Rec	1	8/8/2024 7:16:13 AM

Analytical Report

Work Order: **2408079**
Date Reported: **8/13/2024**

Client: SoundEarth Strategies, Inc.
Collection Date: 8/6/2024 9:55:00 AM
Project: SCL Aloha St Shops
Lab ID: 2408079-004
Matrix: Water
Client Sample ID: **MW103_20240806**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Gasoline by NWTPH-Gx				Batch ID: 44758		Analyst: KJ
Gasoline Range Organics	ND	50.0		µg/L	1	8/8/2024 7:49:17 AM
Surr: Toluene-d8	95.0	65 - 135		%Rec	1	8/8/2024 7:49:17 AM
Surr: 4-Bromofluorobenzene	87.1	65 - 135		%Rec	1	8/8/2024 7:49:17 AM
Volatile Organic Compounds by EPA 8260D				Batch ID: 44758		Analyst: KJ
Benzene	ND	0.200		µg/L	1	8/8/2024 7:49:17 AM
Toluene	ND	0.500		µg/L	1	8/8/2024 7:49:17 AM
Ethylbenzene	ND	0.500		µg/L	1	8/8/2024 7:49:17 AM
m,p-Xylene	ND	1.00		µg/L	1	8/8/2024 7:49:17 AM
o-Xylene	ND	0.500		µg/L	1	8/8/2024 7:49:17 AM
Surr: Dibromofluoromethane	94.5	82.4 - 122.4		%Rec	1	8/8/2024 7:49:17 AM
Surr: Toluene-d8	103	81.4 - 121.4		%Rec	1	8/8/2024 7:49:17 AM
Surr: 1-Bromo-4-fluorobenzene	101	80.1 - 120.1		%Rec	1	8/8/2024 7:49:17 AM

Analytical Report

Work Order: **2408079**
Date Reported: **8/13/2024**

Client: SoundEarth Strategies, Inc.
Collection Date: 8/6/2024 10:50:00 AM
Project: SCL Aloha St Shops
Lab ID: 2408079-005
Matrix: Water
Client Sample ID: **MW109_20240806**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Gasoline by NWTPH-Gx				Batch ID: 44758		Analyst: KJ
Gasoline Range Organics	ND	50.0		µg/L	1	8/8/2024 8:22:21 AM
Surr: Toluene-d8	94.9	65 - 135		%Rec	1	8/8/2024 8:22:21 AM
Surr: 4-Bromofluorobenzene	87.7	65 - 135		%Rec	1	8/8/2024 8:22:21 AM
Volatile Organic Compounds by EPA 8260D				Batch ID: 44758		Analyst: KJ
Benzene	ND	0.200		µg/L	1	8/8/2024 8:22:21 AM
Toluene	ND	0.500		µg/L	1	8/8/2024 8:22:21 AM
Ethylbenzene	ND	0.500		µg/L	1	8/8/2024 8:22:21 AM
m,p-Xylene	ND	1.00		µg/L	1	8/8/2024 8:22:21 AM
o-Xylene	ND	0.500		µg/L	1	8/8/2024 8:22:21 AM
Surr: Dibromofluoromethane	94.1	82.4 - 122.4		%Rec	1	8/8/2024 8:22:21 AM
Surr: Toluene-d8	110	81.4 - 121.4		%Rec	1	8/8/2024 8:22:21 AM
Surr: 1-Bromo-4-fluorobenzene	102	80.1 - 120.1		%Rec	1	8/8/2024 8:22:21 AM

Analytical Report

Work Order: **2408079**
Date Reported: **8/13/2024**

Client: SoundEarth Strategies, Inc.
Collection Date: 8/6/2024 11:45:00 AM
Project: SCL Aloha St Shops
Lab ID: 2408079-006
Matrix: Water
Client Sample ID: **MW311_20240806**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Gasoline by NWTPH-Gx				Batch ID: 44783		Analyst: KJ
Gasoline Range Organics	ND	50.0		µg/L	1	8/9/2024 2:29:22 AM
Surr: Toluene-d8	92.1	65 - 135		%Rec	1	8/9/2024 2:29:22 AM
Surr: 4-Bromofluorobenzene	87.2	65 - 135		%Rec	1	8/9/2024 2:29:22 AM
Volatile Organic Compounds by EPA 8260D				Batch ID: 44783		Analyst: KJ
Benzene	ND	0.200		µg/L	1	8/9/2024 2:29:22 AM
Toluene	ND	0.500		µg/L	1	8/9/2024 2:29:22 AM
Ethylbenzene	ND	0.500		µg/L	1	8/9/2024 2:29:22 AM
m,p-Xylene	ND	1.00		µg/L	1	8/9/2024 2:29:22 AM
o-Xylene	ND	0.500		µg/L	1	8/9/2024 2:29:22 AM
Surr: Dibromofluoromethane	101	82.4 - 122.4		%Rec	1	8/9/2024 2:29:22 AM
Surr: Toluene-d8	108	81.4 - 121.4		%Rec	1	8/9/2024 2:29:22 AM
Surr: 1-Bromo-4-fluorobenzene	101	80.1 - 120.1		%Rec	1	8/9/2024 2:29:22 AM

Analytical Report

Work Order: **2408079**
Date Reported: **8/13/2024**

Client: SoundEarth Strategies, Inc.
Collection Date: 8/6/2024 12:45:00 PM
Project: SCL Aloha St Shops
Lab ID: 2408079-007
Matrix: Water
Client Sample ID: **MW108_20240806**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Gasoline by NWTPH-Gx				Batch ID: 44783		Analyst: KJ
Gasoline Range Organics	592	50.0		µg/L	1	8/9/2024 3:02:29 AM
Surr: Toluene-d8	93.7	65 - 135		%Rec	1	8/9/2024 3:02:29 AM
Surr: 4-Bromofluorobenzene	88.2	65 - 135		%Rec	1	8/9/2024 3:02:29 AM
NOTES: Detection is due to non-petroleum compounds						
Volatile Organic Compounds by EPA 8260D				Batch ID: 44783		Analyst: KJ
Benzene	3.73	0.200		µg/L	1	8/9/2024 3:02:29 AM
Toluene	ND	0.500		µg/L	1	8/9/2024 3:02:29 AM
Ethylbenzene	ND	0.500		µg/L	1	8/9/2024 3:02:29 AM
m,p-Xylene	ND	1.00		µg/L	1	8/9/2024 3:02:29 AM
o-Xylene	ND	0.500		µg/L	1	8/9/2024 3:02:29 AM
Surr: Dibromofluoromethane	119	82.4 - 122.4		%Rec	1	8/9/2024 3:02:29 AM
Surr: Toluene-d8	108	81.4 - 121.4		%Rec	1	8/9/2024 3:02:29 AM
Surr: 1-Bromo-4-fluorobenzene	104	80.1 - 120.1		%Rec	1	8/9/2024 3:02:29 AM

Analytical Report

Work Order: **2408079**
Date Reported: **8/13/2024**

Client: SoundEarth Strategies, Inc.
Collection Date: 8/6/2024 10:30:00 AM
Project: SCL Aloha St Shops
Lab ID: 2408079-010
Matrix: Water
Client Sample ID: **EAN009_20240806**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Gasoline by NWTPH-Gx				Batch ID: 44783		Analyst: KJ
Gasoline Range Organics	ND	50.0		µg/L	1	8/9/2024 3:35:32 AM
Surr: Toluene-d8	94.3	65 - 135		%Rec	1	8/9/2024 3:35:32 AM
Surr: 4-Bromofluorobenzene	86.9	65 - 135		%Rec	1	8/9/2024 3:35:32 AM
Volatile Organic Compounds by EPA 8260D				Batch ID: 44783		Analyst: KJ
Benzene	ND	0.200		µg/L	1	8/9/2024 3:35:32 AM
Toluene	ND	0.500		µg/L	1	8/9/2024 3:35:32 AM
Ethylbenzene	ND	0.500		µg/L	1	8/9/2024 3:35:32 AM
m,p-Xylene	ND	1.00		µg/L	1	8/9/2024 3:35:32 AM
o-Xylene	ND	0.500		µg/L	1	8/9/2024 3:35:32 AM
Surr: Dibromofluoromethane	103	82.4 - 122.4		%Rec	1	8/9/2024 3:35:32 AM
Surr: Toluene-d8	114	81.4 - 121.4		%Rec	1	8/9/2024 3:35:32 AM
Surr: 1-Bromo-4-fluorobenzene	102	80.1 - 120.1		%Rec	1	8/9/2024 3:35:32 AM

Analytical Report

Work Order: **2408079**
Date Reported: **8/13/2024**

Client: SoundEarth Strategies, Inc.
Collection Date: 8/6/2024 1:25:00 PM
Project: SCL Aloha St Shops
Lab ID: 2408079-013
Matrix: Water
Client Sample ID: **SCS001_20240806**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Gasoline by NWTPH-Gx				Batch ID: 44783		Analyst: KJ
Gasoline Range Organics	90.6	50.0		µg/L	1	8/9/2024 4:08:34 AM
Surr: Toluene-d8	90.3	65 - 135		%Rec	1	8/9/2024 4:08:34 AM
Surr: 4-Bromofluorobenzene	83.5	65 - 135		%Rec	1	8/9/2024 4:08:34 AM
Volatile Organic Compounds by EPA 8260D				Batch ID: 44783		Analyst: KJ
Benzene	0.208	0.200		µg/L	1	8/9/2024 4:08:34 AM
Toluene	ND	0.500		µg/L	1	8/9/2024 4:08:34 AM
Ethylbenzene	ND	0.500		µg/L	1	8/9/2024 4:08:34 AM
m,p-Xylene	ND	1.00		µg/L	1	8/9/2024 4:08:34 AM
o-Xylene	ND	0.500		µg/L	1	8/9/2024 4:08:34 AM
Surr: Dibromofluoromethane	109	82.4 - 122.4		%Rec	1	8/9/2024 4:08:34 AM
Surr: Toluene-d8	116	81.4 - 121.4		%Rec	1	8/9/2024 4:08:34 AM
Surr: 1-Bromo-4-fluorobenzene	103	80.1 - 120.1		%Rec	1	8/9/2024 4:08:34 AM

Work Order: 2408079
CLIENT: SoundEarth Strategies, Inc.
Project: SCL Aloha St Shops

QC SUMMARY REPORT

Gasoline by NWTPH-Gx

Sample ID: **LCS-44758**	SampType: **LCS**			Units: **µg/L**		Prep Date: **8/6/2024**		RunNo: **93506**		
Client ID: **LCSW**	Batch ID: **44758**					Analysis Date: **8/7/2024**		SeqNo: **1952122**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	472	50.0	500.0	0	94.4	65	135				
Surr: Toluene-d8	24.1		25.00		96.6	65	135				
Surr: 4-Bromofluorobenzene	22.1		25.00		88.6	65	135				

Sample ID: **MB-44758**	SampType: **MBLK**			Units: **µg/L**		Prep Date: **8/6/2024**		RunNo: **93506**		
Client ID: **MBLKW**	Batch ID: **44758**					Analysis Date: **8/7/2024**		SeqNo: **1952098**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	50.0									
Surr: Toluene-d8	23.9		25.00		95.4	65	135				
Surr: 4-Bromofluorobenzene	22.1		25.00		88.5	65	135				

Sample ID: **2408056-001ADUP**	SampType: **DUP**			Units: **µg/L**		Prep Date: **8/6/2024**		RunNo: **93506**		
Client ID: **BATCH**	Batch ID: **44758**					Analysis Date: **8/7/2024**		SeqNo: **1952100**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	50.0						0		30	
Surr: Toluene-d8	24.2		25.00		96.8	65	135		0		
Surr: 4-Bromofluorobenzene	21.8		25.00		87.1	65	135		0		

Sample ID: **2408079-001ADUP**	SampType: **DUP**			Units: **µg/L**		Prep Date: **8/6/2024**		RunNo: **93506**		
Client ID: **MW322_20240806**	Batch ID: **44758**					Analysis Date: **8/8/2024**		SeqNo: **1952117**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	915	50.0						922.3	0.743	30	
Surr: Toluene-d8	23.4		25.00		93.4	65	135		0		
Surr: 4-Bromofluorobenzene	22.2		25.00		88.8	65	135		0		

NOTES:
Detection is due to non-petroleum compounds

Work Order: 2408079
CLIENT: SoundEarth Strategies, Inc.
Project: SCL Aloha St Shops

QC SUMMARY REPORT

Gasoline by NWTPH-Gx

Sample ID: **LCS-44783**	SampType: **LCS**	Units: **µg/L**	Prep Date: **8/8/2024**	RunNo: **93534**
Client ID: **LCSW**	Batch ID: **44783**		Analysis Date: **8/8/2024**	SeqNo: **1952617**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	476	50.0	500.0	0	95.2	65	135				
Surr: Toluene-d8	24.8		25.00		99.3	65	135				
Surr: 4-Bromofluorobenzene	22.8		25.00		91.3	65	135				

Sample ID: **MB-44783**	SampType: **MBLK**	Units: **µg/L**	Prep Date: **8/8/2024**	RunNo: **93534**
Client ID: **MBLKW**	Batch ID: **44783**		Analysis Date: **8/8/2024**	SeqNo: **1952592**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	50.0									
Surr: Toluene-d8	23.8		25.00		95.2	65	135				
Surr: 4-Bromofluorobenzene	21.6		25.00		86.4	65	135				

Sample ID: **2408100-001ADUP**	SampType: **DUP**	Units: **µg/L**	Prep Date: **8/8/2024**	RunNo: **93534**
Client ID: **BATCH**	Batch ID: **44783**		Analysis Date: **8/8/2024**	SeqNo: **1952598**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	50.0						0		30	
Surr: Toluene-d8	23.1		25.00		92.6	65	135		0		
Surr: 4-Bromofluorobenzene	22.1		25.00		88.4	65	135		0		

Sample ID: **2408133-001ADUP**	SampType: **DUP**	Units: **µg/L**	Prep Date: **8/8/2024**	RunNo: **93534**
Client ID: **BATCH**	Batch ID: **44783**		Analysis Date: **8/8/2024**	SeqNo: **1952605**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	292	50.0						278.6	4.68	30	
Surr: Toluene-d8	29.7		25.00		119	65	135		0		
Surr: 4-Bromofluorobenzene	21.3		25.00		85.1	65	135		0		

Work Order: 2408079
CLIENT: SoundEarth Strategies, Inc.
Project: SCL Aloha St Shops

QC SUMMARY REPORT

Gasoline by NWTPH-Gx

Sample ID: **2408110-002AMS** SampType: **MS** Units: **µg/L** Prep Date: **8/8/2024** RunNo: **93534**
Client ID: **BATCH** Batch ID: **44783** Analysis Date: **8/9/2024** SeqNo: **1952614**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	598	50.0	500.0	0	120	65	135				
Surr: Toluene-d8	24.9		25.00		99.4	65	135				
Surr: 4-Bromofluorobenzene	24.5		25.00		97.9	65	135				

Work Order: 2408079
CLIENT: SoundEarth Strategies, Inc.
Project: SCL Aloha St Shops

QC SUMMARY REPORT

Volatile Organic Compounds by EPA 8260D

Sample ID: **LCS-44758** SampType: **LCS** Units: **µg/L** Prep Date: **8/6/2024** RunNo: **93505**
Client ID: **LCSW** Batch ID: **44758** Analysis Date: **8/7/2024** SeqNo: **1952063**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.0	0.200	20.00	0	105	80	120				
Toluene	20.1	0.500	20.00	0	101	80	120				
Ethylbenzene	19.9	0.500	20.00	0	99.3	80	120				
m,p-Xylene	38.2	1.00	40.00	0	95.4	80	120				
o-Xylene	19.4	0.500	20.00	0	97.1	80	120				
Surr: Dibromofluoromethane	26.6		25.00		106	82.4	122.4				
Surr: Toluene-d8	25.2		25.00		101	81.4	121.4				
Surr: 1-Bromo-4-fluorobenzene	23.7		25.00		94.9	80.1	120.1				

Sample ID: **MB-44758** SampType: **MBLK** Units: **µg/L** Prep Date: **8/6/2024** RunNo: **93505**
Client ID: **MBLKW** Batch ID: **44758** Analysis Date: **8/7/2024** SeqNo: **1952036**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.200									
Toluene	ND	0.500									
Ethylbenzene	ND	0.500									
m,p-Xylene	ND	1.00									
o-Xylene	ND	0.500									
Surr: Dibromofluoromethane	25.3		25.00		101	80	120				
Surr: Toluene-d8	26.5		25.00		106	80	120				
Surr: 1-Bromo-4-fluorobenzene	25.1		25.00		100	80	120				

Sample ID: **2408056-001ADUP** SampType: **DUP** Units: **µg/L** Prep Date: **8/6/2024** RunNo: **93505**
Client ID: **BATCH** Batch ID: **44758** Analysis Date: **8/7/2024** SeqNo: **1952038**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.200						0		30	
Toluene	ND	0.500						0		30	
Ethylbenzene	ND	0.500						0		30	
m,p-Xylene	ND	1.00						0		30	
o-Xylene	ND	0.500						0		30	

Work Order: 2408079
CLIENT: SoundEarth Strategies, Inc.
Project: SCL Aloha St Shops

QC SUMMARY REPORT

Volatile Organic Compounds by EPA 8260D

Sample ID: **2408056-001ADUP** SampType: **DUP** Units: **µg/L** Prep Date: **8/6/2024** RunNo: **93505**
Client ID: **BATCH** Batch ID: **44758** Analysis Date: **8/7/2024** SeqNo: **1952038**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	25.6		25.00		102	82.4	122.4		0		
Surr: Toluene-d8	25.8		25.00		103	81.4	121.4		0		
Surr: 1-Bromo-4-fluorobenzene	25.3		25.00		101	80.1	120.1		0		

Sample ID: **2408021-001AMS** SampType: **MS** Units: **µg/L** Prep Date: **8/6/2024** RunNo: **93505**
Client ID: **BATCH** Batch ID: **44758** Analysis Date: **8/8/2024** SeqNo: **1952051**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	23.5	0.200	20.00	0	117	71.5	141				
Toluene	23.0	0.500	20.00	0	115	70.9	138				
Ethylbenzene	22.3	0.500	20.00	0	112	77.1	130				
m,p-Xylene	43.2	1.00	40.00	0	108	75.7	131				
o-Xylene	21.3	0.500	20.00	0	107	73	132				
Surr: Dibromofluoromethane	28.2		25.00		113	82.4	122.4				
Surr: Toluene-d8	26.0		25.00		104	81.4	121.4				
Surr: 1-Bromo-4-fluorobenzene	24.2		25.00		96.7	80.1	120.1				

Sample ID: **2408079-001ADUP** SampType: **DUP** Units: **µg/L** Prep Date: **8/6/2024** RunNo: **93505**
Client ID: **MW322_20240806** Batch ID: **44758** Analysis Date: **8/8/2024** SeqNo: **1952058**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	2.27	0.200						2.284	0.507	30	
Toluene	ND	0.500						0		30	
Ethylbenzene	ND	0.500						0		30	
m,p-Xylene	ND	1.00						0		30	
o-Xylene	ND	0.500						0		30	
Surr: Dibromofluoromethane	29.6		25.00		118	82.4	122.4		0		
Surr: Toluene-d8	25.8		25.00		103	81.4	121.4		0		
Surr: 1-Bromo-4-fluorobenzene	25.6		25.00		103	80.1	120.1		0		

Work Order: 2408079
CLIENT: SoundEarth Strategies, Inc.
Project: SCL Aloha St Shops

QC SUMMARY REPORT

Volatile Organic Compounds by EPA 8260D

Sample ID: **LCS-44783** SampType: **LCS** Units: **µg/L** Prep Date: **8/8/2024** RunNo: **93540**
Client ID: **LCSW** Batch ID: **44783** Analysis Date: **8/8/2024** SeqNo: **1952667**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	22.3	0.200	20.00	0	111	80	120				
Toluene	21.4	0.500	20.00	0	107	80	120				
Ethylbenzene	20.6	0.500	20.00	0	103	80	120				
m,p-Xylene	39.7	1.00	40.00	0	99.4	80	120				
o-Xylene	20.7	0.500	20.00	0	104	80	120				
Surr: Dibromofluoromethane	28.4		25.00		114	82.4	122.4				
Surr: Toluene-d8	26.6		25.00		106	81.4	121.4				
Surr: 1-Bromo-4-fluorobenzene	24.9		25.00		99.6	80.1	120.1				

Sample ID: **MB-44783** SampType: **MBLK** Units: **µg/L** Prep Date: **8/8/2024** RunNo: **93540**
Client ID: **MBLKW** Batch ID: **44783** Analysis Date: **8/8/2024** SeqNo: **1952635**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.200									
Toluene	ND	0.500									
Ethylbenzene	ND	0.500									
m,p-Xylene	ND	1.00									
o-Xylene	ND	0.500									
Surr: Dibromofluoromethane	26.4		25.00		105	80	120				
Surr: Toluene-d8	27.5		25.00		110	80	120				
Surr: 1-Bromo-4-fluorobenzene	25.1		25.00		100	80	120				

Sample ID: **2408100-001ADUP** SampType: **DUP** Units: **µg/L** Prep Date: **8/8/2024** RunNo: **93540**
Client ID: **BATCH** Batch ID: **44783** Analysis Date: **8/8/2024** SeqNo: **1952640**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.200						0		30	
Toluene	0.553	0.500						0.3710	39.4	30	
Ethylbenzene	ND	0.500						0		30	
m,p-Xylene	ND	1.00						0		30	
o-Xylene	ND	0.500						0		30	

Work Order: 2408079
CLIENT: SoundEarth Strategies, Inc.
Project: SCL Aloha St Shops

QC SUMMARY REPORT

Volatile Organic Compounds by EPA 8260D

Sample ID: **2408100-001ADUP** SampType: **DUP** Units: **µg/L** Prep Date: **8/8/2024** RunNo: **93540**
Client ID: **BATCH** Batch ID: **44783** Analysis Date: **8/8/2024** SeqNo: **1952640**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	28.5		25.00		114	82.4	122.4		0		
Surr: Toluene-d8	26.3		25.00		105	81.4	121.4		0		
Surr: 1-Bromo-4-fluorobenzene	25.7		25.00		103	80.1	120.1		0		

Sample ID: **2408130-001AMS** SampType: **MS** Units: **µg/L** Prep Date: **8/8/2024** RunNo: **93540**
Client ID: **BATCH** Batch ID: **44783** Analysis Date: **8/9/2024** SeqNo: **1952653**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	24.9	0.200	20.00	0	124	71.5	141				
Toluene	24.7	0.500	20.00	0	123	70.9	138				
Ethylbenzene	22.5	0.500	20.00	0	112	77.1	130				
m,p-Xylene	43.1	1.00	40.00	0	108	75.7	131				
o-Xylene	21.4	0.500	20.00	0	107	73	132				
Surr: Dibromofluoromethane	30.0		25.00		120	82.4	122.4				
Surr: Toluene-d8	27.6		25.00		111	81.4	121.4				
Surr: 1-Bromo-4-fluorobenzene	24.2		25.00		97.0	80.1	120.1				

Sample Log-In Check List

Client Name:	SES	Work Order Number:	2408079
Logged by:	Clare Griggs	Date Received:	8/6/2024 2:30:00 PM

Chain of Custody

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

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 °C
Sample	6.0

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

Chain of Custody Record & Laboratory Services Agreement

Fremont Analytical
An Alliance Technical Group Company
3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790

Date: 8/6/24 Page: 1 of: 2

Laboratory Project No (internal): 2408079

Project Name: SCL Aloha St Shops

Special Remarks:

Project No: 1590-001

Client: Sound Earth Strategies

Collected by: JEM / DJS

Address: 1011 SW Klickitat Way

Location:

City, State, Zip: Seattle, WA 98134

Report To (PM): Clare Tochilin

Telephone:

Disposal: Samples will be disposed in 30 days unless otherwise requested.
☐ Retain volume (specify above) ☐ Return to client

Email(s): ctochilin@soundearthinc.com

	Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8) Total (T)	Dissolved (D)	Anions (IC)***	EDB (8011)	Comments
1	MW322_20240806	8/6/24	0720	W	3		X	X										
2	MW318_20240806		0805															
3	MW111_20240806		0910															
4	MW103_20240806		0955															
5	MW109_20240806		1050															
6	MW311_20240806		1145															
7	MW108_20240806		1245															
8	MW104_20240806		0829															
9	MW143_20240806		0930															
10	EAND09_20240806		1030															

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL *Individual:* Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

Turn-around Time:
☒ Standard ☐ Next Day
☐ 3 Day ☐ Same Day
☐ 2 Day _____ (specify)

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature)	Print Name	Date/Time	Received (Signature)	Print Name	Date/Time
x Julia Macray	Julia Macray	8/6/24 1430	x	Brianna Ballard	8/6 14:30
Relinquished (Signature)	Print Name	Date/Time	Received (Signature)	Print Name	Date/Time
x			x		

Chain of Custody Record & Laboratory Services Agreement

Fremont Analytical
An Alliance Technical Group Company
3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790

Date: 8/6/24 Page: 2 of: 2

Laboratory Project No (internal): 2408079

Project Name: SCL Aloha St Shops

Special Remarks:

Client: SoundEarth Strategies

Project No: 1590-001

Address: 1011 Klickitat Way

Collected by: JEM / DJS

City, State, Zip: Seattle, WA 98134

Location:

Telephone:

Report To (PM): Clare Tochilin

Disposal: Samples will be disposed in 30 days unless otherwise requested.
☐ Retain volume (specify above) ☐ Return to client

Email(s): ctochilin@soundearthinc.com

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8) Total (T) | Dissolved (D)	Anions (IC)***	EDB (8011)	Comments
1 MW127-20240806	8/6/24	1117	W	3		X	X									
2 MW120-20240806	"	1230	"	"		"	"									
3 SCS001-20240806	"	1325	"	"		"	"									
4																
5																
6																
7																
8																
9																
10																

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL *Individual:* Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

Turn-around Time:
☒ Standard ☐ Next Day
☐ 3 Day ☐ Same Day
☐ 2 Day _____ (specify)

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature)	Print Name	Date/Time	Received (Signature)	Print Name	Date/Time
x Julia Macray	Julia Macray	8/6/24 1430	x	Briana Ballard	8/6 1430
Relinquished (Signature)	Print Name	Date/Time	Received (Signature)	Print Name	Date/Time
x			x		

Fremont Analytical
An Alliance Technical Group Company
3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790

Chain of Custody Record & Laboratory Services Agreement

Date: 8/6/24 Page: 1 of: 2

Laboratory Project No (internal): 2408079

Project Name: SCL Aloha St Shops

Special Remarks:

Hold samples as marked below per CT, mwdl 8/7/24

Project No: 1590-001

Client: Sound Earth Strategies

Collected by: JEM / DJS

Address: 1011 SW Klickitat Way

Location:

City, State, Zip: Seattle, WA 98134

Report To (PM): Clare Tochilin

Telephone:

Disposal: Samples will be disposed in 30 days unless otherwise requested.
☐ Retain volume (specify above) ☐ Return to client

Email(s): ctochilin@soundearthinc.com

	Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8) Total (T)	Dissolved (D)	Anions (IC)***	EDB (8011)	Comments
1	MW322_20240806	8/6/24	0720	W	3		X	X										
2	MW318_20240806		0805															
3	MW111_20240806		0910															
4	MW103_20240806		0955															
5	MW109_20240806		1050															
6	MW311_20240806		1145															
7	MW108_20240806		1245															
8	MW104_20240806		0829															HOLD
9	MW143_20240806		0930															HOLD
10	EAND09_20240806		1030															

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL *Individual:* Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

Turn-around Time:
☒ Standard ☐ Next Day
☐ 3 Day ☐ Same Day
☐ 2 Day ____ (specify)

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature)	Print Name	Date/Time	Received (Signature)	Print Name	Date/Time
x Julia Macray	Julia Macray	8/6/24 1430	x	Briana Ballard	8/6 14:30
Relinquished (Signature)	Print Name	Date/Time	Received (Signature)	Print Name	Date/Time
x			x		

Chain of Custody Record & Laboratory Services Agreement

Fremont Analytical
An Alliance Technical Group Company
3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790

Date: 8/6/24 Page: 2 of: 2

Laboratory Project No (internal): 2408079

Project Name: SCL Aloha St Shops

Special Remarks:

Client: SoundEarth Strategies

Project No: 1590-001

Address: 1011 Klickitat Way

Collected by: JEM / DJS

City, State, Zip: Seattle, WA 98134

Location:

Telephone:

Report To (PM): Clare Tochilin

Disposal: Samples will be disposed in 30 days unless otherwise requested.
☐ Retain volume (specify above) ☐ Return to client

Email(s): ctochilin@soundearthinc.com

	Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8) Total (T) | Dissolved (D)	Anions (IC)***	EDB (8011)			Comments
1	MW127-20240806	8/6/24	1117	W	3		X	X												HOLD
2	MW120-20240806	"	1230	"	"		"	"												HOLD
3	SCS001-20240806	"	1325	"	"		"	"												
4																				
5																				
6																				
7																				
8																				
9																				
10																				

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL *Individual:* Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

Turn-around Time:
☒ Standard ☐ Next Day
☐ 3 Day ☐ Same Day
☐ 2 Day _____ (specify)

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature)	Print Name	Date/Time	Received (Signature)	Print Name	Date/Time
x Julia Macray	Julia Macray	8/6/24 1430	x	Briana Ballard	8/6 1430
Relinquished (Signature)	Print Name	Date/Time	Received (Signature)	Print Name	Date/Time
x			x		

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

SoundEarth Strategies, Inc.
Clare Tochilin
2811 Fairview Ave E, Ste 2000
Seattle, WA 98102

RE: Seattle Roy Aloha Shops, 1590-001
Work Order Number: 2408115

August 14, 2024

Attention Clare Tochilin:

Fremont Analytical, Inc, an Alliance Technical Group company, received 15 sample(s) on 8/7/2024 for the analyses presented in the following report.

Gasoline by NWTPH-Gx
Volatile Organic Compounds by EPA 8260D

All analyses were performed according to our accredited Quality Assurance program. Please contact the laboratory if you should have any questions about the results.

Please note, while the appearance of our logo and branding will update, our commitment to accuracy, speed, and customer service remain values celebrated and shared by Alliance Technical Group. Thank you for the opportunity to serve you.

Sincerely,

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.4 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Original

Date: *08/14/2024*

CLIENT: SoundEarth Strategies, Inc.
Project: Seattle Roy Aloha Shops
Work Order: 2408115

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2408115-001	SCS006_20240807	08/07/2024 8:08 AM	08/07/2024 2:14 PM
2408115-002	SCS003_20240807	08/07/2024 9:07 AM	08/07/2024 2:14 PM
2408115-003	SCS007_20240807	08/07/2024 9:55 AM	08/07/2024 2:14 PM
2408115-004	SCS004_20240807	08/07/2024 10:57 AM	08/07/2024 2:14 PM
2408115-005	SCS008_20240807	08/07/2024 11:38 AM	08/07/2024 2:14 PM
2408115-006	SCS010_20240807	08/07/2024 12:31 PM	08/07/2024 2:14 PM
2408115-007	SCS005_20240807	08/07/2024 1:20 PM	08/07/2024 2:14 PM
2408115-008	MW331_20240807	08/07/2024 7:10 AM	08/07/2024 2:14 PM
2408115-009	MW126_20240807	08/07/2024 7:50 AM	08/07/2024 2:14 PM
2408115-010	SCL-105_20240807	08/07/2024 8:50 AM	08/07/2024 2:14 PM
2408115-011	SCL-102_20240807	08/07/2024 9:50 AM	08/07/2024 2:14 PM
2408115-012	SCL-101_20240807	08/07/2024 10:25 AM	08/07/2024 2:14 PM
2408115-013	MW308_20240807	08/07/2024 11:30 AM	08/07/2024 2:14 PM
2408115-014	MW309_20240807	08/07/2024 12:00 PM	08/07/2024 2:14 PM
2408115-015	FMW141_20240807	08/07/2024 12:40 PM	08/07/2024 2:14 PM

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

Case Narrative

WO#: **2408115**

Date: **8/14/2024**

CLIENT: SoundEarth Strategies, Inc.

Project: Seattle Roy Aloha Shops

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: **2408115**
Date Reported: **8/14/2024**

Client: SoundEarth Strategies, Inc.
Collection Date: 8/7/2024 8:08:00 AM
Project: Seattle Roy Aloha Shops
Lab ID: 2408115-001
Matrix: Water
Client Sample ID: **SCS006_20240807**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Gasoline by NWTPH-Gx				Batch ID: 44813		Analyst: FG
Gasoline Range Organics	5,310	500	D	µg/L	10	8/13/2024 11:11:50 AM
Surr: Toluene-d8	105	65 - 135	D	%Rec	10	8/13/2024 11:11:50 AM
Surr: 4-Bromofluorobenzene	100	65 - 135	D	%Rec	10	8/13/2024 11:11:50 AM
Volatile Organic Compounds by EPA 8260D				Batch ID: 44813		Analyst: FG
Benzene	45.2	2.00	D	µg/L	10	8/13/2024 11:11:50 AM
Toluene	2.84	0.500		µg/L	1	8/12/2024 4:16:20 PM
Ethylbenzene	4.50	0.500		µg/L	1	8/12/2024 4:16:20 PM
m,p-Xylene	4.15	1.00		µg/L	1	8/12/2024 4:16:20 PM
o-Xylene	ND	0.500		µg/L	1	8/12/2024 4:16:20 PM
Surr: Dibromofluoromethane	111	82.4 - 122.4		%Rec	1	8/12/2024 4:16:20 PM
Surr: Toluene-d8	110	81.4 - 121.4		%Rec	1	8/12/2024 4:16:20 PM
Surr: 1-Bromo-4-fluorobenzene	104	80.1 - 120.1		%Rec	1	8/12/2024 4:16:20 PM

Analytical Report

Work Order: **2408115**
Date Reported: **8/14/2024**

Client: SoundEarth Strategies, Inc.
Collection Date: 8/7/2024 9:07:00 AM
Project: Seattle Roy Aloha Shops
Lab ID: 2408115-002
Matrix: Water
Client Sample ID: **SCS003_20240807**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Gasoline by NWTPH-Gx				Batch ID: 44813		Analyst: FG
Gasoline Range Organics	376	50.0		µg/L	1	8/12/2024 4:46:37 PM
Surr: Toluene-d8	106	65 - 135		%Rec	1	8/12/2024 4:46:37 PM
Surr: 4-Bromofluorobenzene	100	65 - 135		%Rec	1	8/12/2024 4:46:37 PM
Volatile Organic Compounds by EPA 8260D				Batch ID: 44813		Analyst: FG
Benzene	0.221	0.200		µg/L	1	8/12/2024 4:46:37 PM
Toluene	ND	0.500		µg/L	1	8/12/2024 4:46:37 PM
Ethylbenzene	0.551	0.500		µg/L	1	8/12/2024 4:46:37 PM
m,p-Xylene	ND	1.00		µg/L	1	8/12/2024 4:46:37 PM
o-Xylene	ND	0.500		µg/L	1	8/12/2024 4:46:37 PM
Surr: Dibromofluoromethane	110	82.4 - 122.4		%Rec	1	8/12/2024 4:46:37 PM
Surr: Toluene-d8	110	81.4 - 121.4		%Rec	1	8/12/2024 4:46:37 PM
Surr: 1-Bromo-4-fluorobenzene	105	80.1 - 120.1		%Rec	1	8/12/2024 4:46:37 PM

Analytical Report

Work Order: **2408115**
Date Reported: **8/14/2024**

Client: SoundEarth Strategies, Inc.
Collection Date: 8/7/2024 9:55:00 AM
Project: Seattle Roy Aloha Shops
Lab ID: 2408115-003
Matrix: Water
Client Sample ID: **SCS007_20240807**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Gasoline by NWTPH-Gx				Batch ID: 44813		Analyst: FG
Gasoline Range Organics	3,710	500	D	µg/L	10	8/13/2024 11:41:53 AM
Surr: Toluene-d8	104	65 - 135	D	%Rec	10	8/13/2024 11:41:53 AM
Surr: 4-Bromofluorobenzene	101	65 - 135	D	%Rec	10	8/13/2024 11:41:53 AM
Volatile Organic Compounds by EPA 8260D				Batch ID: 44813		Analyst: FG
Benzene	3.44	0.200		µg/L	1	8/12/2024 5:16:54 PM
Toluene	1.15	0.500		µg/L	1	8/12/2024 5:16:54 PM
Ethylbenzene	8.68	0.500		µg/L	1	8/12/2024 5:16:54 PM
m,p-Xylene	2.27	1.00		µg/L	1	8/12/2024 5:16:54 PM
o-Xylene	ND	0.500		µg/L	1	8/12/2024 5:16:54 PM
Surr: Dibromofluoromethane	110	82.4 - 122.4		%Rec	1	8/12/2024 5:16:54 PM
Surr: Toluene-d8	109	81.4 - 121.4		%Rec	1	8/12/2024 5:16:54 PM
Surr: 1-Bromo-4-fluorobenzene	104	80.1 - 120.1		%Rec	1	8/12/2024 5:16:54 PM

Analytical Report

Work Order: **2408115**
Date Reported: **8/14/2024**

Client: SoundEarth Strategies, Inc.
Collection Date: 8/7/2024 10:57:00 AM
Project: Seattle Roy Aloha Shops
Lab ID: 2408115-004
Matrix: Water
Client Sample ID: **SCS004_20240807**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Gasoline by NWTPH-Gx				Batch ID: 44813		Analyst: FG
Gasoline Range Organics	3,630	500	D	µg/L	10	8/13/2024 1:12:18 PM
Surr: Toluene-d8	105	65 - 135	D	%Rec	10	8/13/2024 1:12:18 PM
Surr: 4-Bromofluorobenzene	100	65 - 135	D	%Rec	10	8/13/2024 1:12:18 PM
Volatile Organic Compounds by EPA 8260D				Batch ID: 44813		Analyst: FG
Benzene	0.302	0.200		µg/L	1	8/12/2024 5:47:04 PM
Toluene	0.924	0.500		µg/L	1	8/12/2024 5:47:04 PM
Ethylbenzene	2.33	0.500		µg/L	1	8/12/2024 5:47:04 PM
m,p-Xylene	ND	1.00		µg/L	1	8/12/2024 5:47:04 PM
o-Xylene	ND	0.500		µg/L	1	8/12/2024 5:47:04 PM
Surr: Dibromofluoromethane	109	82.4 - 122.4		%Rec	1	8/12/2024 5:47:04 PM
Surr: Toluene-d8	108	81.4 - 121.4		%Rec	1	8/12/2024 5:47:04 PM
Surr: 1-Bromo-4-fluorobenzene	104	80.1 - 120.1		%Rec	1	8/12/2024 5:47:04 PM

Analytical Report

Work Order: **2408115**
Date Reported: **8/14/2024**

Client: SoundEarth Strategies, Inc.
Collection Date: 8/7/2024 11:38:00 AM
Project: Seattle Roy Aloha Shops
Lab ID: 2408115-005
Matrix: Water
Client Sample ID: **SCS008_20240807**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Gasoline by NWTPH-Gx				Batch ID: 44813		Analyst: FG
Gasoline Range Organics	ND	50.0		µg/L	1	8/12/2024 6:17:27 PM
Surr: Toluene-d8	104	65 - 135		%Rec	1	8/12/2024 6:17:27 PM
Surr: 4-Bromofluorobenzene	100	65 - 135		%Rec	1	8/12/2024 6:17:27 PM
Volatile Organic Compounds by EPA 8260D				Batch ID: 44813		Analyst: FG
Benzene	ND	0.200		µg/L	1	8/12/2024 6:17:27 PM
Toluene	ND	0.500		µg/L	1	8/12/2024 6:17:27 PM
Ethylbenzene	ND	0.500		µg/L	1	8/12/2024 6:17:27 PM
m,p-Xylene	ND	1.00		µg/L	1	8/12/2024 6:17:27 PM
o-Xylene	ND	0.500		µg/L	1	8/12/2024 6:17:27 PM
Surr: Dibromofluoromethane	109	82.4 - 122.4		%Rec	1	8/12/2024 6:17:27 PM
Surr: Toluene-d8	110	81.4 - 121.4		%Rec	1	8/12/2024 6:17:27 PM
Surr: 1-Bromo-4-fluorobenzene	105	80.1 - 120.1		%Rec	1	8/12/2024 6:17:27 PM

Client: SoundEarth Strategies, Inc. **Collection Date:** 8/7/2024 12:31:00 PM
Project: Seattle Roy Aloha Shops
Lab ID: 2408115-006 **Matrix:** Water
Client Sample ID: **SCS010_20240807**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Gasoline by NWTPH-Gx				Batch ID: 44813		Analyst: FG
Gasoline Range Organics	ND	50.0		µg/L	1	8/12/2024 6:47:43 PM
Surr: Toluene-d8	104	65 - 135		%Rec	1	8/12/2024 6:47:43 PM
Surr: 4-Bromofluorobenzene	101	65 - 135		%Rec	1	8/12/2024 6:47:43 PM
Volatile Organic Compounds by EPA 8260D				Batch ID: 44813		Analyst: FG
Benzene	ND	0.200		µg/L	1	8/12/2024 6:47:43 PM
Toluene	ND	0.500		µg/L	1	8/12/2024 6:47:43 PM
Ethylbenzene	ND	0.500		µg/L	1	8/12/2024 6:47:43 PM
m,p-Xylene	ND	1.00		µg/L	1	8/12/2024 6:47:43 PM
o-Xylene	ND	0.500		µg/L	1	8/12/2024 6:47:43 PM
Surr: Dibromofluoromethane	107	82.4 - 122.4		%Rec	1	8/12/2024 6:47:43 PM
Surr: Toluene-d8	109	81.4 - 121.4		%Rec	1	8/12/2024 6:47:43 PM
Surr: 1-Bromo-4-fluorobenzene	104	80.1 - 120.1		%Rec	1	8/12/2024 6:47:43 PM

Analytical Report

Work Order: **2408115**
Date Reported: **8/14/2024**

Client: SoundEarth Strategies, Inc.
Collection Date: 8/7/2024 1:20:00 PM
Project: Seattle Roy Aloha Shops
Lab ID: 2408115-007
Matrix: Water
Client Sample ID: **SCS005_20240807**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Gasoline by NWTPH-Gx				Batch ID: 44813		Analyst: FG
Gasoline Range Organics	ND	50.0		µg/L	1	8/12/2024 7:18:00 PM
Surr: Toluene-d8	105	65 - 135		%Rec	1	8/12/2024 7:18:00 PM
Surr: 4-Bromofluorobenzene	100	65 - 135		%Rec	1	8/12/2024 7:18:00 PM
Volatile Organic Compounds by EPA 8260D				Batch ID: 44813		Analyst: FG
Benzene	ND	0.200		µg/L	1	8/12/2024 7:18:00 PM
Toluene	ND	0.500		µg/L	1	8/12/2024 7:18:00 PM
Ethylbenzene	ND	0.500		µg/L	1	8/12/2024 7:18:00 PM
m,p-Xylene	ND	1.00		µg/L	1	8/12/2024 7:18:00 PM
o-Xylene	ND	0.500		µg/L	1	8/12/2024 7:18:00 PM
Surr: Dibromofluoromethane	107	82.4 - 122.4		%Rec	1	8/12/2024 7:18:00 PM
Surr: Toluene-d8	110	81.4 - 121.4		%Rec	1	8/12/2024 7:18:00 PM
Surr: 1-Bromo-4-fluorobenzene	103	80.1 - 120.1		%Rec	1	8/12/2024 7:18:00 PM

Client: SoundEarth Strategies, Inc. **Collection Date:** 8/7/2024 7:10:00 AM
Project: Seattle Roy Aloha Shops
Lab ID: 2408115-008 **Matrix:** Water
Client Sample ID: **MW331_20240807**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Gasoline by NWTPH-Gx				Batch ID: 44813		Analyst: FG
Gasoline Range Organics	ND	50.0		µg/L	1	8/12/2024 7:48:16 PM
Surr: Toluene-d8	104	65 - 135		%Rec	1	8/12/2024 7:48:16 PM
Surr: 4-Bromofluorobenzene	99.7	65 - 135		%Rec	1	8/12/2024 7:48:16 PM
Volatile Organic Compounds by EPA 8260D				Batch ID: 44813		Analyst: FG
Benzene	ND	0.200		µg/L	1	8/12/2024 7:48:16 PM
Toluene	ND	0.500		µg/L	1	8/12/2024 7:48:16 PM
Ethylbenzene	ND	0.500		µg/L	1	8/12/2024 7:48:16 PM
m,p-Xylene	ND	1.00		µg/L	1	8/12/2024 7:48:16 PM
o-Xylene	ND	0.500		µg/L	1	8/12/2024 7:48:16 PM
Surr: Dibromofluoromethane	107	82.4 - 122.4		%Rec	1	8/12/2024 7:48:16 PM
Surr: Toluene-d8	110	81.4 - 121.4		%Rec	1	8/12/2024 7:48:16 PM
Surr: 1-Bromo-4-fluorobenzene	102	80.1 - 120.1		%Rec	1	8/12/2024 7:48:16 PM

Analytical Report

Work Order: **2408115**
Date Reported: **8/14/2024**

Client: SoundEarth Strategies, Inc.
Collection Date: 8/7/2024 7:50:00 AM
Project: Seattle Roy Aloha Shops
Lab ID: 2408115-009
Matrix: Water
Client Sample ID: **MW126_20240807**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Gasoline by NWTPH-Gx				Batch ID: 44813		Analyst: FG
Gasoline Range Organics	ND	50.0		µg/L	1	8/12/2024 8:18:28 PM
Surr: Toluene-d8	105	65 - 135		%Rec	1	8/12/2024 8:18:28 PM
Surr: 4-Bromofluorobenzene	98.9	65 - 135		%Rec	1	8/12/2024 8:18:28 PM
Volatile Organic Compounds by EPA 8260D				Batch ID: 44813		Analyst: FG
Benzene	ND	0.200		µg/L	1	8/12/2024 8:18:28 PM
Toluene	ND	0.500		µg/L	1	8/12/2024 8:18:28 PM
Ethylbenzene	ND	0.500		µg/L	1	8/12/2024 8:18:28 PM
m,p-Xylene	ND	1.00		µg/L	1	8/12/2024 8:18:28 PM
o-Xylene	ND	0.500		µg/L	1	8/12/2024 8:18:28 PM
Surr: Dibromofluoromethane	108	82.4 - 122.4		%Rec	1	8/12/2024 8:18:28 PM
Surr: Toluene-d8	108	81.4 - 121.4		%Rec	1	8/12/2024 8:18:28 PM
Surr: 1-Bromo-4-fluorobenzene	100	80.1 - 120.1		%Rec	1	8/12/2024 8:18:28 PM

Analytical Report

Work Order: **2408115**
Date Reported: **8/14/2024**

Client: SoundEarth Strategies, Inc.
Collection Date: 8/7/2024 8:50:00 AM
Project: Seattle Roy Aloha Shops
Lab ID: 2408115-010
Matrix: Water
Client Sample ID: **SCL-105_20240807**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Gasoline by NWTPH-Gx				Batch ID: 44813		Analyst: FG
Gasoline Range Organics	5,400	500	D	µg/L	10	8/13/2024 1:42:12 PM
Surr: Toluene-d8	104	65 - 135	D	%Rec	10	8/13/2024 1:42:12 PM
Surr: 4-Bromofluorobenzene	101	65 - 135	D	%Rec	10	8/13/2024 1:42:12 PM
Volatile Organic Compounds by EPA 8260D				Batch ID: 44813		Analyst: FG
Benzene	84.0	2.00	D	µg/L	10	8/13/2024 1:42:12 PM
Toluene	8.22	0.500		µg/L	1	8/12/2024 8:48:39 PM
Ethylbenzene	15.5	0.500		µg/L	1	8/12/2024 8:48:39 PM
m,p-Xylene	12.2	1.00		µg/L	1	8/12/2024 8:48:39 PM
o-Xylene	1.64	0.500		µg/L	1	8/12/2024 8:48:39 PM
Surr: Dibromofluoromethane	114	82.4 - 122.4		%Rec	1	8/12/2024 8:48:39 PM
Surr: Toluene-d8	115	81.4 - 121.4		%Rec	1	8/12/2024 8:48:39 PM
Surr: 1-Bromo-4-fluorobenzene	103	80.1 - 120.1		%Rec	1	8/12/2024 8:48:39 PM

Analytical Report

Work Order: **2408115**
Date Reported: **8/14/2024**

Client: SoundEarth Strategies, Inc.
Collection Date: 8/7/2024 9:50:00 AM
Project: Seattle Roy Aloha Shops
Lab ID: 2408115-011
Matrix: Water
Client Sample ID: **SCL-102_20240807**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Gasoline by NWTPH-Gx				Batch ID: 44813		Analyst: FG
Gasoline Range Organics	6,590	500	D	µg/L	10	8/13/2024 2:12:21 PM
Surr: Toluene-d8	106	65 - 135	D	%Rec	10	8/13/2024 2:12:21 PM
Surr: 4-Bromofluorobenzene	100	65 - 135	D	%Rec	10	8/13/2024 2:12:21 PM
Volatile Organic Compounds by EPA 8260D				Batch ID: 44813		Analyst: FG
Benzene	18.7	0.200		µg/L	1	8/12/2024 11:49:53 PM
Toluene	5.44	0.500		µg/L	1	8/12/2024 11:49:53 PM
Ethylbenzene	243	5.00	D	µg/L	10	8/13/2024 2:12:21 PM
m,p-Xylene	9.51	1.00		µg/L	1	8/12/2024 11:49:53 PM
o-Xylene	2.65	0.500		µg/L	1	8/12/2024 11:49:53 PM
Surr: Dibromofluoromethane	107	82.4 - 122.4		%Rec	1	8/12/2024 11:49:53 PM
Surr: Toluene-d8	106	81.4 - 121.4		%Rec	1	8/12/2024 11:49:53 PM
Surr: 1-Bromo-4-fluorobenzene	99.7	80.1 - 120.1		%Rec	1	8/12/2024 11:49:53 PM

Client: SoundEarth Strategies, Inc. **Collection Date:** 8/7/2024 10:25:00 AM
Project: Seattle Roy Aloha Shops
Lab ID: 2408115-012 **Matrix:** Water
Client Sample ID: **SCL-101_20240807**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Gasoline by NWTPH-Gx				Batch ID: 44813		Analyst: FG
Gasoline Range Organics	1,670	50.0		µg/L	1	8/13/2024 12:20:05 AM
Surr: Toluene-d8	106	65 - 135		%Rec	1	8/13/2024 12:20:05 AM
Surr: 4-Bromofluorobenzene	104	65 - 135		%Rec	1	8/13/2024 12:20:05 AM
Volatile Organic Compounds by EPA 8260D				Batch ID: 44813		Analyst: FG
Benzene	3.67	0.200		µg/L	1	8/13/2024 12:20:05 AM
Toluene	ND	0.500		µg/L	1	8/13/2024 12:20:05 AM
Ethylbenzene	ND	0.500		µg/L	1	8/13/2024 12:20:05 AM
m,p-Xylene	ND	1.00		µg/L	1	8/13/2024 12:20:05 AM
o-Xylene	ND	0.500		µg/L	1	8/13/2024 12:20:05 AM
Surr: Dibromofluoromethane	108	82.4 - 122.4		%Rec	1	8/13/2024 12:20:05 AM
Surr: Toluene-d8	109	81.4 - 121.4		%Rec	1	8/13/2024 12:20:05 AM
Surr: 1-Bromo-4-fluorobenzene	106	80.1 - 120.1		%Rec	1	8/13/2024 12:20:05 AM

Client: SoundEarth Strategies, Inc. **Collection Date:** 8/7/2024 11:30:00 AM
Project: Seattle Roy Aloha Shops
Lab ID: 2408115-013 **Matrix:** Water
Client Sample ID: **MW308_20240807**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Gasoline by NWTPH-Gx				Batch ID: 44813		Analyst: FG
Gasoline Range Organics	ND	50.0		µg/L	1	8/13/2024 12:50:10 AM
Surr: Toluene-d8	104	65 - 135		%Rec	1	8/13/2024 12:50:10 AM
Surr: 4-Bromofluorobenzene	101	65 - 135		%Rec	1	8/13/2024 12:50:10 AM
Volatile Organic Compounds by EPA 8260D				Batch ID: 44813		Analyst: FG
Benzene	0.631	0.200		µg/L	1	8/13/2024 12:50:10 AM
Toluene	ND	0.500		µg/L	1	8/13/2024 12:50:10 AM
Ethylbenzene	ND	0.500		µg/L	1	8/13/2024 12:50:10 AM
m,p-Xylene	ND	1.00		µg/L	1	8/13/2024 12:50:10 AM
o-Xylene	ND	0.500		µg/L	1	8/13/2024 12:50:10 AM
Surr: Dibromofluoromethane	107	82.4 - 122.4		%Rec	1	8/13/2024 12:50:10 AM
Surr: Toluene-d8	109	81.4 - 121.4		%Rec	1	8/13/2024 12:50:10 AM
Surr: 1-Bromo-4-fluorobenzene	104	80.1 - 120.1		%Rec	1	8/13/2024 12:50:10 AM

Analytical Report

Work Order: **2408115**
Date Reported: **8/14/2024**

Client: SoundEarth Strategies, Inc.
Collection Date: 8/7/2024 12:00:00 PM
Project: Seattle Roy Aloha Shops
Lab ID: 2408115-014
Matrix: Water
Client Sample ID: **MW309_20240807**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Gasoline by NWTPH-Gx				Batch ID: 44813		Analyst: FG
Gasoline Range Organics	800	50.0		µg/L	1	8/13/2024 1:20:18 AM
Surr: Toluene-d8	102	65 - 135		%Rec	1	8/13/2024 1:20:18 AM
Surr: 4-Bromofluorobenzene	101	65 - 135		%Rec	1	8/13/2024 1:20:18 AM
NOTES: Detection is due to non-petroleum compounds						
Volatile Organic Compounds by EPA 8260D				Batch ID: 44813		Analyst: FG
Benzene	ND	0.200		µg/L	1	8/13/2024 1:20:18 AM
Toluene	ND	0.500		µg/L	1	8/13/2024 1:20:18 AM
Ethylbenzene	ND	0.500		µg/L	1	8/13/2024 1:20:18 AM
m,p-Xylene	ND	1.00		µg/L	1	8/13/2024 1:20:18 AM
o-Xylene	ND	0.500		µg/L	1	8/13/2024 1:20:18 AM
Surr: Dibromofluoromethane	108	82.4 - 122.4		%Rec	1	8/13/2024 1:20:18 AM
Surr: Toluene-d8	119	81.4 - 121.4		%Rec	1	8/13/2024 1:20:18 AM
Surr: 1-Bromo-4-fluorobenzene	104	80.1 - 120.1		%Rec	1	8/13/2024 1:20:18 AM

Analytical Report

Work Order: **2408115**
Date Reported: **8/14/2024**

Client: SoundEarth Strategies, Inc.
Collection Date: 8/7/2024 12:40:00 PM
Project: Seattle Roy Aloha Shops
Lab ID: 2408115-015
Matrix: Water
Client Sample ID: **FMW141_20240807**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Gasoline by NWTPH-Gx				Batch ID: 44813		Analyst: FG
Gasoline Range Organics	ND	50.0		µg/L	1	8/13/2024 1:50:25 AM
Surr: Toluene-d8	104	65 - 135		%Rec	1	8/13/2024 1:50:25 AM
Surr: 4-Bromofluorobenzene	101	65 - 135		%Rec	1	8/13/2024 1:50:25 AM
Volatile Organic Compounds by EPA 8260D				Batch ID: 44813		Analyst: FG
Benzene	0.320	0.200		µg/L	1	8/13/2024 1:50:25 AM
Toluene	ND	0.500		µg/L	1	8/13/2024 1:50:25 AM
Ethylbenzene	ND	0.500		µg/L	1	8/13/2024 1:50:25 AM
m,p-Xylene	ND	1.00		µg/L	1	8/13/2024 1:50:25 AM
o-Xylene	ND	0.500		µg/L	1	8/13/2024 1:50:25 AM
Surr: Dibromofluoromethane	106	82.4 - 122.4		%Rec	1	8/13/2024 1:50:25 AM
Surr: Toluene-d8	108	81.4 - 121.4		%Rec	1	8/13/2024 1:50:25 AM
Surr: 1-Bromo-4-fluorobenzene	103	80.1 - 120.1		%Rec	1	8/13/2024 1:50:25 AM

Work Order: 2408115
CLIENT: SoundEarth Strategies, Inc.
Project: Seattle Roy Aloha Shops

QC SUMMARY REPORT

Gasoline by NWTPH-Gx

Sample ID: **LCS-44813**	SampType: **LCS**			Units: **µg/L**		Prep Date: **8/12/2024**		RunNo: **93614**		
Client ID: **LCSW**	Batch ID: **44813**					Analysis Date: **8/12/2024**		SeqNo: **1954393**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	520	50.0	500.0	0	104	65	135				
Surr: Toluene-d8	25.3		25.00		101	65	135				
Surr: 4-Bromofluorobenzene	25.1		25.00		100	65	135				

Sample ID: **MB-44813**	SampType: **MBLK**			Units: **µg/L**		Prep Date: **8/12/2024**		RunNo: **93614**		
Client ID: **MBLKW**	Batch ID: **44813**					Analysis Date: **8/12/2024**		SeqNo: **1954333**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	50.0									
Surr: Toluene-d8	26.0		25.00		104	65	135				
Surr: 4-Bromofluorobenzene	25.1		25.00		100	65	135				

Sample ID: **2408115-001ADUP**	SampType: **DUP**			Units: **µg/L**		Prep Date: **8/12/2024**		RunNo: **93614**		
Client ID: **SCS006_20240807**	Batch ID: **44813**					Analysis Date: **8/13/2024**		SeqNo: **1954355**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	4,860	50.0						5,283	8.37	30	
Surr: Toluene-d8	27.2		25.00		109	65	135		0		
Surr: 4-Bromofluorobenzene	25.0		25.00		100	65	135		0		

Sample ID: **2408115-002ADUP**	SampType: **DUP**			Units: **µg/L**		Prep Date: **8/12/2024**		RunNo: **93614**		
Client ID: **SCS003_20240807**	Batch ID: **44813**					Analysis Date: **8/13/2024**		SeqNo: **1954356**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	340	50.0						376.3	10.2	30	
Surr: Toluene-d8	26.4		25.00		106	65	135		0		
Surr: 4-Bromofluorobenzene	25.2		25.00		101	65	135		0		

Work Order: 2408115
CLIENT: SoundEarth Strategies, Inc.
Project: Seattle Roy Aloha Shops

QC SUMMARY REPORT

Gasoline by NWTPH-Gx

Sample ID: **2408115-004AMS** SampType: **MS** Units: **µg/L** Prep Date: **8/12/2024** RunNo: **93614**
Client ID: **SCS004_20240807** Batch ID: **44813** Analysis Date: **8/13/2024** SeqNo: **1954357**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	3,900	50.0	500.0	3,173	145	65	135				S
Surr: Toluene-d8	26.0		25.00		104	65	135				
Surr: 4-Bromofluorobenzene	24.9		25.00		99.6	65	135				

NOTES:
S - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected.

Work Order: 2408115
CLIENT: SoundEarth Strategies, Inc.
Project: Seattle Roy Aloha Shops

QC SUMMARY REPORT

Volatile Organic Compounds by EPA 8260D

Sample ID: **LCS-44813** SampType: **LCS** Units: **µg/L** Prep Date: **8/12/2024** RunNo: **93604**
Client ID: **LCSW** Batch ID: **44813** Analysis Date: **8/12/2024** SeqNo: **1954181**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	23.0	0.200	20.00	0	115	80	120				
Toluene	22.2	0.500	20.00	0	111	80	120				
Ethylbenzene	21.5	0.500	20.00	0	108	80	120				
m,p-Xylene	41.2	1.00	40.00	0	103	80	120				
o-Xylene	21.0	0.500	20.00	0	105	80	120				
Surr: Dibromofluoromethane	27.2		25.00		109	82.4	122.4				
Surr: Toluene-d8	27.5		25.00		110	81.4	121.4				
Surr: 1-Bromo-4-fluorobenzene	25.0		25.00		99.9	80.1	120.1				

Sample ID: **MB-44813** SampType: **MBLK** Units: **µg/L** Prep Date: **8/12/2024** RunNo: **93604**
Client ID: **MBLKW** Batch ID: **44813** Analysis Date: **8/12/2024** SeqNo: **1954150**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.200									
Toluene	ND	0.500									
Ethylbenzene	ND	0.500									
m,p-Xylene	ND	1.00									
o-Xylene	ND	0.500									
Surr: Dibromofluoromethane	26.8		25.00		107	80	120				
Surr: Toluene-d8	26.9		25.00		107	80	120				
Surr: 1-Bromo-4-fluorobenzene	25.6		25.00		102	80	120				

Sample ID: **2408115-001ADUP** SampType: **DUP** Units: **µg/L** Prep Date: **8/12/2024** RunNo: **93604**
Client ID: **SCS006_20240807** Batch ID: **44813** Analysis Date: **8/13/2024** SeqNo: **1954172**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	44.6	0.200						46.09	3.24	30	E
Toluene	2.72	0.500						2.837	4.04	30	
Ethylbenzene	4.12	0.500						4.495	8.66	30	
m,p-Xylene	3.76	1.00						4.151	9.84	30	
o-Xylene	ND	0.500						0		30	

Work Order: 2408115
CLIENT: SoundEarth Strategies, Inc.
Project: Seattle Roy Aloha Shops

QC SUMMARY REPORT

Volatile Organic Compounds by EPA 8260D

Sample ID: **2408115-001ADUP** SampType: **DUP** Units: **µg/L** Prep Date: **8/12/2024** RunNo: **93604**
Client ID: **SCS006_20240807** Batch ID: **44813** Analysis Date: **8/13/2024** SeqNo: **1954172**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	27.5		25.00		110	82.4	122.4		0		
Surr: Toluene-d8	27.4		25.00		109	81.4	121.4		0		
Surr: 1-Bromo-4-fluorobenzene	25.8		25.00		103	80.1	120.1		0		

Sample ID: **2408115-002ADUP** SampType: **DUP** Units: **µg/L** Prep Date: **8/12/2024** RunNo: **93604**
Client ID: **SCS003_20240807** Batch ID: **44813** Analysis Date: **8/13/2024** SeqNo: **1954173**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.216	0.200						0.2206	2.16	30	
Toluene	ND	0.500						0		30	
Ethylbenzene	0.555	0.500						0.5514	0.662	30	
m,p-Xylene	ND	1.00						0		30	
o-Xylene	ND	0.500						0		30	
Surr: Dibromofluoromethane	26.9		25.00		107	82.4	122.4		0		
Surr: Toluene-d8	27.5		25.00		110	81.4	121.4		0		
Surr: 1-Bromo-4-fluorobenzene	26.2		25.00		105	80.1	120.1		0		

Sample Log-In Check List

Client Name:	SES	Work Order Number:	2408115
Logged by:	Morgan Wilson	Date Received:	8/7/2024 2:14:00 PM

Chain of Custody

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

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 °C
Sample	6.0

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

Fremont Analytical
An Alliance Technical Group Company
3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790

Chain of Custody Record & Laboratory Services Agreement

Date: 8/7/24 Page: 1 of: 2

Laboratory Project No (internal): 2408115

Project Name: Seattle Roy Aloha Shops

Project No: 1590-001

Collected by: JEM, DJS

Location: 800 Aloha Street, Seattle, Washington

Report To (PM): Clare Tochilin

Special Remarks:
Direct Bill to Seattle City Light
scl_apinvoice@seattle.gov
-Include PRN#
-SCL Project Manager:

Disposal: Samples will be disposed in 30 days unless otherwise requested.
☐ Retain volume (specify above) ☐ Return to client

Client: SoundEarth Strategies
Address: 1011 SW Klickitat Way
City, State, Zip: Seattle, WA 98134
Telephone: 206-306-1900
Email(s): ctochilin@soundearthinc.com

	Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8) Total (T)	Dissolved (D)	Anions (IC)***	EDB (8011)	Comments
1	SCS006_20240807	8/7/24	0808	W	3		X	X										
2	SCS003_20240807		0907															
3	SCS007_20240807		0955															
4	SCS004_20240807		1057															
5	SCS008_20240807		1138															
6	SCS010_20240807		1231															
7	SCS005_20240807		1320															
8	MW331_20240807		0710															
9	MW126_20240807		0750															
10	SCL-105_20240807		0850															

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL *Individual:* Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Turn-around Time:
☒ Standard ☐ Next Day
☐ 3 Day ☐ Same Day
☐ 2 Day ☐ (specify)

Relinquished (Signature)	Print Name	Date/Time	Received (Signature)	Print Name	Date/Time
x Julia Macray	Julia Macray	8/7/24 1414	x	Briana Ballard	8/7 2:14PM
Relinquished (Signature)	Print Name	Date/Time	Received (Signature)	Print Name	Date/Time
x			x		

Chain of Custody Record & Laboratory Services Agreement

Fremont Analytical
An Alliance Technical Group Company
3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790

Date: 8/7/24 Page: 2 of: 2

Laboratory Project No (internal): 2408115

Project Name: Seattle Roy Aloha Shops

Special Remarks:
Direct Bill to Seattle City Light
scl_apinvoice@seattle.gov
-Include PRN#
-SCL Project Manager:

Client: SoundEarth Strategies

Project No: 1590-001

Address: 1011 SW Klickitat Way

Collected by: JEM, DJS

City, State, Zip: Seattle, WA 98134

Location: 800 Aloha Street, Seattle, Washington

Telephone: 206-306-1900

Report To (PM): Clare Tochilin

Disposal: Samples will be disposed in 30 days unless otherwise requested.
☐ Retain volume (specify above) ☐ Return to client

Email(s): ctochilin@soundearthinc.com

	Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) | Dissolved (D)	Anions (IC)***	EDB (8011)	Comments
1	SCL-102_20240807	8/7/24	0950	GW	3		X	X										
2	SCL-101_20240807	8/7/24	1025															
3	MW308_20240807		1130															
4	MW309_20240807		1200															
5	FMW141_20240807		1240															
6																		
7																		
8																		
9																		
10																		

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL *Individual:* Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

Turn-around Time:
☒ Standard ☐ Next Day
☐ 3 Day ☐ Same Day
☐ 2 Day ☐ (specify)

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature)	Print Name	Date/Time	Received (Signature)	Print Name	Date/Time
x Julia Macey	Julia Macey	8/7/24 1414	x	Bryana Ballard	8/7 2:14 PM
Relinquished (Signature)	Print Name	Date/Time	Received (Signature)	Print Name	Date/Time
x			x		

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

SoundEarth Strategies, Inc.
Clare Tochilin
2811 Fairview Ave E, Ste 2000
Seattle, WA 98102

RE: Roy Street GWS, 1590-001
Work Order Number: 2408131

August 15, 2024

Attention Clare Tochilin:

Fremont Analytical, Inc, an Alliance Technical Group company, received 4 sample(s) on 8/8/2024 for the analyses presented in the following report.

Gasoline by NWTPH-Gx
Volatile Organic Compounds by EPA 8260D

All analyses were performed according to our accredited Quality Assurance program. Please contact the laboratory if you should have any questions about the results.

Please note, while the appearance of our logo and branding will update, our commitment to accuracy, speed, and customer service remain values celebrated and shared by Alliance Technical Group. Thank you for the opportunity to serve you.

Sincerely,

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.4 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Original

Date: *08/15/2024*

CLIENT: SoundEarth Strategies, Inc.
Project: Roy Street GWS
Work Order: 2408131

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2408131-001	MW104-20240808	08/08/2024 7:50 AM	08/08/2024 11:14 AM
2408131-002	MW143-20240808	08/08/2024 8:40 AM	08/08/2024 11:14 AM
2408131-003	MW127-20240808	08/08/2024 9:35 AM	08/08/2024 11:14 AM
2408131-004	MW120-20240808	08/08/2024 10:25 AM	08/08/2024 11:14 AM

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

Case Narrative

WO#: **2408131**

Date: **8/15/2024**

CLIENT: SoundEarth Strategies, Inc.

Project: Roy Street GWS

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

CLIENT: SoundEarth Strategies, Inc.
Project: Roy Street GWS

Lab ID: 2408131-001 **Collection Date:** 8/8/2024 7:50:00 AM
Client Sample ID: **MW104-20240808** **Matrix:** Groundwater

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Gasoline by NWTPH-Gx				Batch ID: 44813		Analyst: FG
Gasoline Range Organics	ND	50.0		µg/L	1	8/13/2024 2:20:31 AM
Surr: Toluene-d8	104	65 - 135		%Rec	1	8/13/2024 2:20:31 AM
Surr: 4-Bromofluorobenzene	101	65 - 135		%Rec	1	8/13/2024 2:20:31 AM
Volatile Organic Compounds by EPA 8260D				Batch ID: 44813		Analyst: FG
Benzene	ND	0.200		µg/L	1	8/13/2024 2:20:31 AM
Toluene	ND	0.500		µg/L	1	8/13/2024 2:20:31 AM
Ethylbenzene	ND	0.500		µg/L	1	8/13/2024 2:20:31 AM
m,p-Xylene	ND	1.00		µg/L	1	8/13/2024 2:20:31 AM
o-Xylene	ND	0.500		µg/L	1	8/13/2024 2:20:31 AM
Surr: Dibromofluoromethane	107	82.4 - 122.4		%Rec	1	8/13/2024 2:20:31 AM
Surr: Toluene-d8	108	81.4 - 121.4		%Rec	1	8/13/2024 2:20:31 AM
Surr: 1-Bromo-4-fluorobenzene	103	80.1 - 120.1		%Rec	1	8/13/2024 2:20:31 AM

Lab ID: 2408131-002 **Collection Date:** 8/8/2024 8:40:00 AM
Client Sample ID: **MW143-20240808** **Matrix:** Groundwater

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Gasoline by NWTPH-Gx				Batch ID: 44813		Analyst: FG
Gasoline Range Organics	235	50.0		µg/L	1	8/13/2024 2:50:42 AM
Surr: Toluene-d8	104	65 - 135		%Rec	1	8/13/2024 2:50:42 AM
Surr: 4-Bromofluorobenzene	101	65 - 135		%Rec	1	8/13/2024 2:50:42 AM
Volatile Organic Compounds by EPA 8260D				Batch ID: 44813		Analyst: FG
Benzene	ND	0.200		µg/L	1	8/13/2024 2:50:42 AM
Toluene	ND	0.500		µg/L	1	8/13/2024 2:50:42 AM
Ethylbenzene	ND	0.500		µg/L	1	8/13/2024 2:50:42 AM
m,p-Xylene	ND	1.00		µg/L	1	8/13/2024 2:50:42 AM
o-Xylene	ND	0.500		µg/L	1	8/13/2024 2:50:42 AM
Surr: Dibromofluoromethane	108	82.4 - 122.4		%Rec	1	8/13/2024 2:50:42 AM
Surr: Toluene-d8	115	81.4 - 121.4		%Rec	1	8/13/2024 2:50:42 AM
Surr: 1-Bromo-4-fluorobenzene	104	80.1 - 120.1		%Rec	1	8/13/2024 2:50:42 AM

CLIENT: SoundEarth Strategies, Inc.
Project: Roy Street GWS

Lab ID: 2408131-003 **Collection Date:** 8/8/2024 9:35:00 AM
Client Sample ID: **MW127-20240808** **Matrix:** Groundwater

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Gasoline by NWTPH-Gx				Batch ID: 44813		Analyst: FG
Gasoline Range Organics	ND	50.0		µg/L	1	8/13/2024 3:20:49 AM
Surr: Toluene-d8	104	65 - 135		%Rec	1	8/13/2024 3:20:49 AM
Surr: 4-Bromofluorobenzene	101	65 - 135		%Rec	1	8/13/2024 3:20:49 AM
Volatile Organic Compounds by EPA 8260D				Batch ID: 44813		Analyst: FG
Benzene	ND	0.200		µg/L	1	8/13/2024 3:20:49 AM
Toluene	ND	0.500		µg/L	1	8/13/2024 3:20:49 AM
Ethylbenzene	ND	0.500		µg/L	1	8/13/2024 3:20:49 AM
m,p-Xylene	ND	1.00		µg/L	1	8/13/2024 3:20:49 AM
o-Xylene	ND	0.500		µg/L	1	8/13/2024 3:20:49 AM
Surr: Dibromofluoromethane	106	82.4 - 122.4		%Rec	1	8/13/2024 3:20:49 AM
Surr: Toluene-d8	108	81.4 - 121.4		%Rec	1	8/13/2024 3:20:49 AM
Surr: 1-Bromo-4-fluorobenzene	103	80.1 - 120.1		%Rec	1	8/13/2024 3:20:49 AM

Lab ID: 2408131-004 **Collection Date:** 8/8/2024 10:25:00 AM
Client Sample ID: **MW120-20240808** **Matrix:** Groundwater

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Gasoline by NWTPH-Gx				Batch ID: 44813		Analyst: FG
Gasoline Range Organics	86.2	50.0		µg/L	1	8/13/2024 3:50:55 AM
Surr: Toluene-d8	105	65 - 135		%Rec	1	8/13/2024 3:50:55 AM
Surr: 4-Bromofluorobenzene	103	65 - 135		%Rec	1	8/13/2024 3:50:55 AM
Volatile Organic Compounds by EPA 8260D				Batch ID: 44813		Analyst: FG
Benzene	ND	0.200		µg/L	1	8/13/2024 3:50:55 AM
Toluene	ND	0.500		µg/L	1	8/13/2024 3:50:55 AM
Ethylbenzene	ND	0.500		µg/L	1	8/13/2024 3:50:55 AM
m,p-Xylene	ND	1.00		µg/L	1	8/13/2024 3:50:55 AM
o-Xylene	ND	0.500		µg/L	1	8/13/2024 3:50:55 AM
Surr: Dibromofluoromethane	106	82.4 - 122.4		%Rec	1	8/13/2024 3:50:55 AM
Surr: Toluene-d8	107	81.4 - 121.4		%Rec	1	8/13/2024 3:50:55 AM
Surr: 1-Bromo-4-fluorobenzene	105	80.1 - 120.1		%Rec	1	8/13/2024 3:50:55 AM

Work Order: 2408131
CLIENT: SoundEarth Strategies, Inc.
Project: Roy Street GWS

QC SUMMARY REPORT

Gasoline by NWTPH-Gx

Sample ID: **LCS-44813**	SampType: **LCS**			Units: **µg/L**		Prep Date: **8/12/2024**		RunNo: **93614**		
Client ID: **LCSW**	Batch ID: **44813**					Analysis Date: **8/12/2024**		SeqNo: **1954393**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	520	50.0	500.0	0	104	65	135				
Surr: Toluene-d8	25.3		25.00		101	65	135				
Surr: 4-Bromofluorobenzene	25.1		25.00		100	65	135				

Sample ID: **MB-44813**	SampType: **MBLK**			Units: **µg/L**		Prep Date: **8/12/2024**		RunNo: **93614**		
Client ID: **MBLKW**	Batch ID: **44813**					Analysis Date: **8/12/2024**		SeqNo: **1954333**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	50.0									
Surr: Toluene-d8	26.0		25.00		104	65	135				
Surr: 4-Bromofluorobenzene	25.1		25.00		100	65	135				

Sample ID: **2408115-001ADUP**	SampType: **DUP**			Units: **µg/L**		Prep Date: **8/12/2024**		RunNo: **93614**		
Client ID: **BATCH**	Batch ID: **44813**					Analysis Date: **8/13/2024**		SeqNo: **1954355**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	4,860	50.0						5,283	8.37	30	
Surr: Toluene-d8	27.2		25.00		109	65	135		0		
Surr: 4-Bromofluorobenzene	25.0		25.00		100	65	135		0		

Sample ID: **2408115-002ADUP**	SampType: **DUP**			Units: **µg/L**		Prep Date: **8/12/2024**		RunNo: **93614**		
Client ID: **BATCH**	Batch ID: **44813**					Analysis Date: **8/13/2024**		SeqNo: **1954356**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	340	50.0						376.3	10.2	30	
Surr: Toluene-d8	26.4		25.00		106	65	135		0		
Surr: 4-Bromofluorobenzene	25.2		25.00		101	65	135		0		

Work Order: 2408131
CLIENT: SoundEarth Strategies, Inc.
Project: Roy Street GWS

QC SUMMARY REPORT

Gasoline by NWTPH-Gx

Sample ID: **2408115-004AMS** SampType: **MS** Units: **µg/L** Prep Date: **8/12/2024** RunNo: **93614**
Client ID: **BATCH** Batch ID: **44813** Analysis Date: **8/13/2024** SeqNo: **1954357**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	3,900	50.0	500.0	3,173	145	65	135				S
Surr: Toluene-d8	26.0		25.00		104	65	135				
Surr: 4-Bromofluorobenzene	24.9		25.00		99.6	65	135				

NOTES:
S - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected.

Work Order: 2408131
CLIENT: SoundEarth Strategies, Inc.
Project: Roy Street GWS

QC SUMMARY REPORT

Volatile Organic Compounds by EPA 8260D

Sample ID: **LCS-44813** SampType: **LCS** Units: **µg/L** Prep Date: **8/12/2024** RunNo: **93604**
Client ID: **LCSW** Batch ID: **44813** Analysis Date: **8/12/2024** SeqNo: **1954181**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	23.0	0.200	20.00	0	115	80	120				
Toluene	22.2	0.500	20.00	0	111	80	120				
Ethylbenzene	21.5	0.500	20.00	0	108	80	120				
m,p-Xylene	41.2	1.00	40.00	0	103	80	120				
o-Xylene	21.0	0.500	20.00	0	105	80	120				
Surr: Dibromofluoromethane	27.2		25.00		109	82.4	122.4				
Surr: Toluene-d8	27.5		25.00		110	81.4	121.4				
Surr: 1-Bromo-4-fluorobenzene	25.0		25.00		99.9	80.1	120.1				

Sample ID: **MB-44813** SampType: **MBLK** Units: **µg/L** Prep Date: **8/12/2024** RunNo: **93604**
Client ID: **MBLKW** Batch ID: **44813** Analysis Date: **8/12/2024** SeqNo: **1954150**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.200									
Toluene	ND	0.500									
Ethylbenzene	ND	0.500									
m,p-Xylene	ND	1.00									
o-Xylene	ND	0.500									
Surr: Dibromofluoromethane	26.8		25.00		107	80	120				
Surr: Toluene-d8	26.9		25.00		107	80	120				
Surr: 1-Bromo-4-fluorobenzene	25.6		25.00		102	80	120				

Sample ID: **2408115-001ADUP** SampType: **DUP** Units: **µg/L** Prep Date: **8/12/2024** RunNo: **93604**
Client ID: **BATCH** Batch ID: **44813** Analysis Date: **8/13/2024** SeqNo: **1954172**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	44.6	0.200						46.09	3.24	30	E
Toluene	2.72	0.500						2.837	4.04	30	
Ethylbenzene	4.12	0.500						4.495	8.66	30	
m,p-Xylene	3.76	1.00						4.151	9.84	30	
o-Xylene	ND	0.500						0		30	

Alliance TECHNICAL GROUP

Work Order: 2408131
CLIENT: SoundEarth Strategies, Inc.
Project: Roy Street GWS

QC SUMMARY REPORT

Volatile Organic Compounds by EPA 8260D

Sample ID: **2408115-001ADUP**	SampType: **DUP**	Units: **µg/L**	Prep Date: **8/12/2024**	RunNo: **93604**
Client ID: **BATCH**	Batch ID: **44813**		Analysis Date: **8/13/2024**	SeqNo: **1954172**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	27.5		25.00		110	82.4	122.4		0		
Surr: Toluene-d8	27.4		25.00		109	81.4	121.4		0		
Surr: 1-Bromo-4-fluorobenzene	25.8		25.00		103	80.1	120.1		0		

Sample ID: **2408115-002ADUP**	SampType: **DUP**	Units: **µg/L**	Prep Date: **8/12/2024**	RunNo: **93604**
Client ID: **BATCH**	Batch ID: **44813**		Analysis Date: **8/13/2024**	SeqNo: **1954173**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.216	0.200						0.2206	2.16	30	
Toluene	ND	0.500						0		30	
Ethylbenzene	0.555	0.500						0.5514	0.662	30	
m,p-Xylene	ND	1.00						0		30	
o-Xylene	ND	0.500						0		30	
Surr: Dibromofluoromethane	26.9		25.00		107	82.4	122.4		0		
Surr: Toluene-d8	27.5		25.00		110	81.4	121.4		0		
Surr: 1-Bromo-4-fluorobenzene	26.2		25.00		105	80.1	120.1		0		

Sample Log-In Check List

Client Name:	SES	Work Order Number:	2408131
Logged by:	Clare Griggs	Date Received:	8/8/2024 11:14:00 AM

Chain of Custody

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

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 °C
Sample	5.9

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

Chain of Custody Record & Laboratory Services Agreement

Fremont Analytical
An Alliance Technical Group Company
3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790

Date: 08/08/24 Page: 1 of: 1

Laboratory Project No (internal): 2408131

Project Name: Ray Street GWS

Special Remarks:

Project No: 1590-001

Client: Sound Earth Strategies

Collected by: DJS

Address: 1011 SW Klickitat Way

Location: Ray Street

City, State, Zip: Seattle WA

Report To (PM): Clare Tochilin

Telephone: 206.436.5951

Disposal: Samples will be disposed in 30 days unless otherwise requested.
☐ Retain volume (specify above) ☐ Return to client

Email(s): CTochilin@soundearthinc.com

	Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) / Dissolved (D)	Anions (IC)***	EDB (8011)			Comments
1	MW104_20240808	08/08/24	0750	GW	3		X	X												
2	MW143_20240808		0840																	
3	MW127_20240808		0935																	
4	MW120_20240808		1025																	
5																				
6																				
7																				
8																				
9																				
10																				

DJS 08/08/24

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL *Individual:* Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

Turn-around Time:
☒ Standard ☐ Next Day
☐ 3 Day ☐ Same Day
☐ 2 Day ☐ _____ (specify)

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature)	Print Name	Date/Time	Received (Signature)	Print Name	Date/Time
x Darsten Singh	Darsten Singh	08/08/24	x Jack Hawthorne	Jack Hawthorne	8/8/24 1114
Relinquished (Signature)	Print Name	Date/Time	Received (Signature)	Print Name	Date/Time
x			x		

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

SoundEarth Strategies, Inc.
Clare Tochilin
2811 Fairview Ave E, Ste 2000
Seattle, WA 98102

RE: Seattle Roy Aloha Shops, 1267-025
Work Order Number: 2408172

August 19, 2024

Attention Clare Tochilin:

Fremont Analytical, Inc, an Alliance Technical Group company, received 1 sample(s) on 8/12/2024 for the analyses presented in the following report.

Gasoline by NWTPH-Gx
Volatile Organic Compounds by EPA 8260D

All analyses were performed according to our accredited Quality Assurance program. Please contact the laboratory if you should have any questions about the results.

Please note, while the appearance of our logo and branding will update, our commitment to accuracy, speed, and customer service remain values celebrated and shared by Alliance Technical Group. Thank you for the opportunity to serve you.

Sincerely,

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.4 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Original

Date: *08/19/2024*

CLIENT: SoundEarth Strategies, Inc.
Project: Seattle Roy Aloha Shops
Work Order: 2408172

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2408172-001	SCS-002-20240812	08/12/2024 11:35 AM	08/12/2024 12:03 PM

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

Original

Case Narrative

WO#: **2408172**

Date: **8/19/2024**

CLIENT: SoundEarth Strategies, Inc.

Project: Seattle Roy Aloha Shops

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: **2408172**
Date Reported: **8/19/2024**

Client: SoundEarth Strategies, Inc.
Collection Date: 8/12/2024 11:35:00 AM
Project: Seattle Roy Aloha Shops
Lab ID: 2408172-001
Matrix: Groundwater
Client Sample ID: **SCS-002-20240812**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Gasoline by NWTPH-Gx				Batch ID: 44889		Analyst: FG
Gasoline Range Organics	2,240	500	D	µg/L	10	8/16/2024 3:32:30 PM
Surr: Toluene-d8	104	65 - 135	D	%Rec	10	8/16/2024 3:32:30 PM
Surr: 4-Bromofluorobenzene	101	65 - 135	D	%Rec	10	8/16/2024 3:32:30 PM
Volatile Organic Compounds by EPA 8260D				Batch ID: 44889		Analyst: FG
Benzene	7.24	2.00	D	µg/L	10	8/16/2024 3:32:30 PM
Toluene	ND	5.00	D	µg/L	10	8/16/2024 3:32:30 PM
Ethylbenzene	8.42	5.00	D	µg/L	10	8/16/2024 3:32:30 PM
m,p-Xylene	ND	10.0	D	µg/L	10	8/16/2024 3:32:30 PM
o-Xylene	ND	5.00	D	µg/L	10	8/16/2024 3:32:30 PM
Surr: Dibromofluoromethane	101	82.4 - 122.4	D	%Rec	10	8/16/2024 3:32:30 PM
Surr: Toluene-d8	99.6	81.4 - 121.4	D	%Rec	10	8/16/2024 3:32:30 PM
Surr: 1-Bromo-4-fluorobenzene	100	80.1 - 120.1	D	%Rec	10	8/16/2024 3:32:30 PM

Work Order: 2408172
CLIENT: SoundEarth Strategies, Inc.
Project: Seattle Roy Aloha Shops

QC SUMMARY REPORT

Gasoline by NWTPH-Gx

Sample ID: **LCS-44889** SampType: **LCS** Units: **µg/L** Prep Date: **8/16/2024** RunNo: **93711**
Client ID: **LCSW** Batch ID: **44889** Analysis Date: **8/16/2024** SeqNo: **1957227**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	497	50.0	500.0	0	99.5	65	135				
Surr: Toluene-d8	25.9		25.00		103	65	135				
Surr: 4-Bromofluorobenzene	24.1		25.00		96.3	65	135				

Sample ID: **MB-44889** SampType: **MBLK** Units: **µg/L** Prep Date: **8/16/2024** RunNo: **93711**
Client ID: **MBLKW** Batch ID: **44889** Analysis Date: **8/16/2024** SeqNo: **1957220**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	50.0									
Surr: Toluene-d8	26.1		25.00		104	65	135				
Surr: 4-Bromofluorobenzene	25.1		25.00		100	65	135				

Sample ID: **2408256-001ADUP** SampType: **DUP** Units: **µg/L** Prep Date: **8/16/2024** RunNo: **93711**
Client ID: **BATCH** Batch ID: **44889** Analysis Date: **8/16/2024** SeqNo: **1957224**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	50.0						0		30	
Surr: Toluene-d8	26.0		25.00		104	65	135		0		
Surr: 4-Bromofluorobenzene	25.7		25.00		103	65	135		0		

Sample ID: **2408190-001AMS** SampType: **MS** Units: **µg/L** Prep Date: **8/16/2024** RunNo: **93711**
Client ID: **BATCH** Batch ID: **44889** Analysis Date: **8/16/2024** SeqNo: **1957225**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	485	50.0	500.0	97.42	77.6	65	135				
Surr: Toluene-d8	25.6		25.00		103	65	135				
Surr: 4-Bromofluorobenzene	24.6		25.00		98.5	65	135				

Work Order: 2408172
CLIENT: SoundEarth Strategies, Inc.
Project: Seattle Roy Aloha Shops

QC SUMMARY REPORT

Volatile Organic Compounds by EPA 8260D

Sample ID: **LCS-44889** SampType: **LCS** Units: **µg/L** Prep Date: **8/16/2024** RunNo: **93721**
Client ID: **LCSW** Batch ID: **44889** Analysis Date: **8/16/2024** SeqNo: **1957298**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.4	0.200	20.00	0	97.1	80	120				
Toluene	19.7	0.500	20.00	0	98.5	80	120				
Ethylbenzene	19.1	0.500	20.00	0	95.7	80	120				
m,p-Xylene	39.0	1.00	40.00	0	97.5	80	120				
o-Xylene	19.8	0.500	20.00	0	98.8	80	120				
Surr: Dibromofluoromethane	25.3		25.00		101	82.4	122.4				
Surr: Toluene-d8	25.8		25.00		103	81.4	121.4				
Surr: 1-Bromo-4-fluorobenzene	24.7		25.00		98.9	80.1	120.1				

Sample ID: **MB-44889** SampType: **MBLK** Units: **µg/L** Prep Date: **8/16/2024** RunNo: **93721**
Client ID: **MBLKW** Batch ID: **44889** Analysis Date: **8/16/2024** SeqNo: **1957291**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.200									
Toluene	ND	0.500									
Ethylbenzene	ND	0.500									
m,p-Xylene	ND	1.00									
o-Xylene	ND	0.500									
Surr: Dibromofluoromethane	24.8		25.00		99.3	80	120				
Surr: Toluene-d8	24.7		25.00		98.9	80	120				
Surr: 1-Bromo-4-fluorobenzene	25.1		25.00		100	80	120				

Sample ID: **2408256-001ADUP** SampType: **DUP** Units: **µg/L** Prep Date: **8/16/2024** RunNo: **93721**
Client ID: **BATCH** Batch ID: **44889** Analysis Date: **8/16/2024** SeqNo: **1957296**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.200						0		30	
Toluene	ND	0.500						0		30	
Ethylbenzene	ND	0.500						0		30	
m,p-Xylene	ND	1.00						0		30	
o-Xylene	ND	0.500						0		30	

Work Order: 2408172
CLIENT: SoundEarth Strategies, Inc.
Project: Seattle Roy Aloha Shops

QC SUMMARY REPORT

Volatile Organic Compounds by EPA 8260D

Sample ID: **2408256-001ADUP** SampType: **DUP** Units: **µg/L** Prep Date: **8/16/2024** RunNo: **93721**
Client ID: **BATCH** Batch ID: **44889** Analysis Date: **8/16/2024** SeqNo: **1957296**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	24.7		25.00		98.6	82.4	122.4		0		
Surr: Toluene-d8	24.0		25.00		96.1	81.4	121.4		0		
Surr: 1-Bromo-4-fluorobenzene	25.4		25.00		101	80.1	120.1		0		

Sample ID: **2408240-001AMS** SampType: **MS** Units: **µg/L** Prep Date: **8/16/2024** RunNo: **93721**
Client ID: **BATCH** Batch ID: **44889** Analysis Date: **8/16/2024** SeqNo: **1957297**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.9	0.200	20.00	0	99.3	71.5	141				
Toluene	19.7	0.500	20.00	0	98.3	70.9	138				
Ethylbenzene	20.3	0.500	20.00	0	102	77.1	130				
m,p-Xylene	40.8	1.00	40.00	0.5436	101	75.7	131				
o-Xylene	20.3	0.500	20.00	0.1440	101	73	132				
Surr: Dibromofluoromethane	25.1		25.00		101	82.4	122.4				
Surr: Toluene-d8	24.9		25.00		99.7	81.4	121.4				
Surr: 1-Bromo-4-fluorobenzene	24.9		25.00		99.8	80.1	120.1				

Sample Log-In Check List

Client Name:	SES	Work Order Number:	2408172
Logged by:	Clare Griggs	Date Received:	8/12/2024 12:03:00 PM

Chain of Custody

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

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 °C
Sample	4.6

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

Chain of Custody Record & Laboratory Services Agreement

Fremont Analytical
An Alliance Technical Group Company

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790

Date: 8/12/24 | Page: 1 of: 1 | Laboratory Project No (internal): 2408172

Project Name: Seattle Roy Aloha Shops

Special Remarks:
Direct Bill to Seattle City Light
scl_apinvoice@seattle.gov
-Include PRN#
-SCL Project Manager:

Client: SoundEarth Strategies

Project No: 1590-001

Address: 1011 SW Klickitat Way

Collected by: NOLAN CONWAY

City, State, Zip: Seattle, WA 98134

Location: 800 Aloha Street, Seattle, Washington

Telephone: 206-306-1900

Report To (PM): Clare Tochilin

Disposal: Samples will be disposed in 30 days unless otherwise requested.
☐ Retain volume (specify above) ☐ Return to client

Email(s): ctochilin@soundearthinc.com

	Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) | Dissolved (D)	Anions (IC)***	EDB (8011)	Comments
1	MW2-20240812	8/12/24	1135	GW			X	X										-GX, BTEX only
2																		
3																		
4																		
5																		8/12/24
6																		
7																		
8																		
9																		
10																		

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL *Individual:* Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

Turn-around Time:
☒ Standard ☐ Next Day
☐ 3 Day ☐ Same Day
☐ 2 Day ☐ _____ (specify)

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature)	Print Name	Date/Time	Received (Signature)	Print Name	Date/Time
x Nolan Conway	NOLAN CONWAY	8/12/24 0900	x	GHein-Gipson	8/12/24 12:03
Relinquished (Signature)	Print Name	Date/Time	Received (Signature)	Print Name	Date/Time
x			x		