

FOCUSED PHASE II ENVIRONMENTAL SITE ASSESSMENT



INDUSTRIAL PROPERTY

10103 NE Marx Street Portland, Oregon

Prepared for:

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Focused Phase II Environmental Site Assessment

Report for:

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Has been prepared for the sole benefit and use of our Client:

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and its assignees

Issued March 22, 2023 by:



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List of Acronyms and Abbreviations

AST	above-ground storage tank	RBDM	ODEQ's Risk-Based Decision
bgs	below ground surface		Making for the Remediation of
CFSLs	clean fill screening levels		Contaminated Sites guidance document
Client	Blackstone Consulting	RCRA	Resource Conservation and
CMMP	Contaminated Media	KCKA	Recovery Act
	Management Plan	REC	recognized environmental
COCs	constituents of concern	NEC	condition
COIs	constituents of interest	ROW	right-of-way
DPT	direct-push technology	RRO	residual (oil)-range organics
DRO	diesel-range organics	SLRBCs	screening-level risk-based
ENW	EVREN Northwest, Inc.	02.12.00	concentrations
EPA	US Environmental Protection	sow	scope of work
	Agency	SVOC	semi-volatile organic constituent
ESA	Environmental Site Assessment	SWI	soil/water interface
F&BI	Friedman and Bruya, Inc.	TPH	Total Petroleum Hydrocarbons
FSDS	Field Sampling Data Sheet	USCS	Unified Soil Classification System
GPR	ground penetrating radar	USGS	U.S. Geological Survey
GRO	gasoline-range organics	UST	underground storage tank
HCID	hydrocarbon identification	VOCs	volatile organic constituents
LUST	Leaking Underground Storage		
4.	Tank		
μg/L	micrograms per Liter		
mg/Kg	milligrams per Kilogram		
mg/L	milligrams per liter		
MRL	method reporting limit		
NFA	No Further Action		
OAR	Oregon Administrative Rules		
ODEQ	Oregon Department of		
OWED	Environmental Quality		
OWRD	Oregon Water Resources Department		
PAHs	polynuclear aromatic		
	hydrocarbons		
PCBs	polychlorinated biphenyls		
PID	photoionization detector		
Qalc	Quaternary flood plain deposits		
	of the Willamette River and major		
	tributaries		
RBCs	risk-based concentrations		

1.0 Introduction

At the request of Blackstone Consulting, LLC (Blackstone - Client), EVREN Northwest, Inc. (ENW) prepared this report documenting a Focused Phase II Environmental Site Assessment (ESA) at the subject site (10103 NE Marx Street, Portland, Oregon; see Figures 1 and 2). This focused Phase II ESA was conducted to further evaluate environmental concerns identified in a Phase I ESA prepared for the subject property by Blackstone.

Site work was conducted in February 2023 and was photographically documented (Appendix A). This report summarizes the background and purpose of the investigation, field methods and observations, and the findings of laboratory analyses.

2.0 Salient Background

2.1 Historical Land Use

According to historical information provided by Blackstone, various business entities have occupied the subject property since the 1970s. Industrial activities on the subject property have included a drum reconditioning and intermediate bulk container (IBC) processing operation from approximately the 1970s until the site was reportedly vacated in 2022. Site operations included restoration of empty containers previously used for chemical and liquid storage by various industrial and agricultural operations whereby the containers were cleaned inside the warehouse building using a phosphate detergent and hot water and other cleaning solutions. The refurbished containers were sold to customers for re-use.

Surrounding properties began transitioning to industrial use in the 1950s. Several commercial/warehouse buildings and a lumber storage yard were initially present on the south and southwest adjoining properties beginning in the 1970s, with the lumber operation later becoming the current Oregon Department of Transportation (ODOT) East Portland Maintenance Yard. The east-adjoining property was operated as a salvage yard in the 1960s, and a commercial waste handling/recycling company occupied the southeast-adjacent property by the 1970s. The present-day multi-use public pathway and Interstate 205 (I-205) Sandy Boulevard onramp have bordered the site to the northwest since the 1980s. Current nearby businesses include an auto body shop, waste handling facility and storage yard to the east, and a paving contractor to the south.

2.2 Previous Environmental Investigations

According to information in Blackstone's Phase I ESA, the following previous environmental investigations were conducted at the subject property. The documented history provided by Blackstone was partly gathered from a review of available files from the Oregon Department of Environmental Quality (ODEQ) online databases and may not comprehensively describe all previous environmental activities conducted.

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¹ Blackstone Consulting, LLC 2022. *Phase I Environmental Site Assessment Report, 5.3-Acre Industrial Property, 10103 Northeast Marx Street, Portland, Oregon*: Prepared for Crest Partners, dated January 15, 2023.

2.2.1 Subject Property Storm Water Investigations

According to Blackstone's research, the subject property was identified on ODEQ 's Environmental Cleanup Site Information (ECSI) database for storm water related issued in the past. In the late 1990s/early-2000s, the subject site was evaluated as a potential contributor of PCBs in nearby Johnson Lake, which was part of a broader source control evaluation for the Columbia Slough Watershed. According to ODEQ files, ODEQ collected sediment samples from two ponds at the subject property in early 2000s and found them to contain elevated PCBs along with petroleum hydrocarbons. The sediment impacts by PCBs and petroleum were attributed to the site's history of drum/container management operations.

Source control measures were implemented at the site in 2003, including removal of PCB-impacted sediments from the two ponds and beneath a catch basin and a storm water pipeline. In 2012, additional soils testing found contamination in the upper 1.5 feet of soil at the subject site. Further source control measures were conducted under a Final Removal Action Work Plan prepared for the subject property in August 2013 by SLR international Corporation (SLR). Additional contaminated soil and sediment were removed at this time.

The ODEQ issued a No Further Action Memorandum in 2014, stating the source control measures adequately addressed the PCB impacts; however, ODEQ also stated that source control measures did not address all potential PCB impacts identified in shallow soils at the subject property.

2.2.2 ODEQ LUST # 26-97-0561 (1997)

According to ODEQ's Leaking Underground Storage Tank (LUST) Cleanup Site Database, two (2) 2,000-gallon underground storage tanks (USTs) were decommissioned by removal at the subject property in 1997. Up to 302 parts per million (ppm) diesel-range petroleum hydrocarbons were discovered in soil during the decommissioning. Ground water was not encountered, and the concentration of diesel in soil was below the ODEQ's Soil Matrix Cleanup level. The ODEQ issued an NFA letter for the two reported 2,000-gallon tanks on September 26, 2000.

2.3 Phase I ESA Findings

Blackstone prepared a Draft Phase I ESA (Draft for Discussion Purposes Only) of the 5.3-acre subject property in January 2023. The stated purpose of Blackstone's Phase I ESA was to "investigate and identify recognized environmental conditions (RECs) in accordance with American Society for Testing and Materials (ASTM) Standard E1527-21. ENW understands the Phase I ESA was performed in anticipation of a potential property transaction.

The findings of the Phase I ESA were as follows:

• **Prior Use of Subject Property:** The subject property is listed on various regulatory databases for the generation of hazardous wastes, including ignitable/corrosive wastes, chromium, lead, and solvents; and the Underground Injection Control (UIC) database for an unregistered storm water drainage UIC. The subject property was identified as a "significant noncomplier" between 2020 and 2022, with informal enforcement actions issued. Although previous environmental investigations have been completed at the subject property, the investigations were limited to surficial soil sampling, did not include characterization or investigation of groundwater, and did

not address the prior operational areas within the warehouse building. Based on the long-term use of the subject property as a drum reconditioning and container processing facility (approximately 45 years), the limited data available regarding the prior operational areas and groundwater at the subject property, and the recent regulatory violations issued, the prior use of the subject property as a steel drum reconditioning and container processing facility is considered a REC.

- Current/Prior Use of Adjoining Properties: Industrial uses on adjoining properties to the east, southeast, and southwest date to the 1960s and 1970s and include an auto wrecking/salvage yard, vehicle maintenance, sandblasting, steam cleaning, engine rebuilding/repair, and recycling operations. Regulatory listings associated with the properties note the use of underground storage tanks (USTs), hazardous waste generation and management, and ODEQ involvement recommending further investigation. In addition, the industrial property uses in the subject property area commenced prior to the establishment of modern regulations regarding the handling of hazardous materials and waste. Blackstone encountered no evidence of comprehensive environmental investigations into historical adjoining property uses from ODEQ online resources; therefore, based on the inferred groundwater flow direction and close proximity to the subject property, the current and former industrial uses of adjoining properties are considered RECs and vapor encroachment concerns (VECs).
- Polychlorinated biphenyl (PCB)-Impacted Soil and Stormwater Runoff: The subject property (also known as the Former Myers Container Site) was identified as Environmental Cleanup Site Information (ECSI) Site ID #2062 in association with the investigation and cleanup actions focused on PCB-contaminated soil in stormwater. According to ODEQ records, the subject property was previously owned by various entities and operated as a drum reconditioning and intermediate bulk container processing facility since 1977. In the late-1990s/early-2000s, the subject property was evaluated due to elevated levels of PCBs found in sediment in the nearby Johnson Lake to the west, which is the discharge point for the two stormwater runoff ponds located on the subject property. A potential source of the PCBs was attributed to historical container management operations at the subject property. Source control measures were conducted at the subject property in 2003, and later in 2012-2013. These cleanup measures included the excavation and removal of PCB contaminated shallow soil and sediment from select surface areas, the on-site ponds, and the associated catch basin/pipeline/culvert. These source control measures adequately addressed PCB contamination along the stormwater migration pathway and residual PCB contamination identified in the subject property shallow soil. A No Further Action (NFA) determination was issued by ODEQ for the subject property on September 17, 2014. Based on the completed cleanup actions and the issuance of a NFA letter, the PCB contamination identified in near-surface soil resulting from historic container management operations at the subject property is considered a HREC.
- Former Underground Storage Tanks (USTs): Two former USTs were located at the subject property and removed in 1997. The locations and contents of the USTs were not reported. However, regulatory information indicated that confirmation soil sampling was performed, and up to 302 parts per million (ppm) diesel-range petroleum hydrocarbon contamination was discovered during the decommissioning, which was below the applicable 500 ppm cleanup level. Groundwater was reportedly not encountered during the UST removal activities. The ODEQ issued

EVREN Northwest, Inc. Project No. 1460-23001-01 a NFA determination for the removal of the USTs on September 26, 2000. Based on the absence of significant contamination and issuance of a NFA letter, the former USTs are considered a HREC.

• Asbestos-Containing Materials (ACM): Based on the construction date of the subject property building (circa 1977-1978) and the limited nature of Blackstone's visual survey, Blackstone recommends preparing and implementing a subject property-specific Asbestos Operations and Maintenance (O&M) Program. In addition, Blackstone recommends compliance with OSHA regulations requiring the identification of presumed ACM as well as training, notification, and labeling requirements in operational areas.

In February 2023, Blackstone engaged ENW to conduct a Focused Phase II to further investigate possible environmental concerns associated with the historical uses of the subject property. ENW presented a scope of work and cost estimate to Blackstone to perform the Phase II ESA in a proposal dated February 1, 2023, and Blackstone authorized the scope of work on February 9, 2023.

The proposed scope of work addresses all but the last of the above-listed environmental concerns at the site. ENW understands an investigation and/or management of ACMs, if elected to be performed, will be conducted under a separate scope of work.

3.0 Scope of Work

ENW completed the following Scope of Work (SOW) for this project:

- Called One Call Utility Notification Service to identify and locate all public utilities near each of the proposed sampling locations.
- Performed a geophysical survey at the site to screen for the presence of subsurface features of potential environmental concern (i.e., USTs, UICs, sumps, drains, etc.) and clear proposed boring locations.
- Advanced 12 temporary soil borings and collected soil and reconnaissance ground water samples from select soil borings for laboratory analysis.
- Assessed the vapor intrusion pathway by collecting four (4) sub-slab vapor samples inside the
 onsite building and two (2) soil gas probes along the eastern property margin for laboratory
 analysis of VOCs.
- Submitted soil, reconnaissance ground water, and soil vapor samples to an independent laboratory for appropriate analysis.
- Evaluated analytical results with respect to Oregon Department of Environmental Quality (ODEQ) cleanup standards and risk-based guidance documents.
- Prepared this report documenting the work conducted with findings.

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4.0 Site Setting

Description and Location. The 5.3-acre subject property is identified as Multnomah County property IDs: R235908 and R235911. The subject address is 10103 NE Marx Street in northeast Portland, Oregon (Figures 1 and 2).

The property is located in an industrial district reclaimed from former wetlands within the alluvial flood plain of the Columbia River. At the time of this focused Phase II assessment, the subject property was noted to be developed with a single-story warehouse constructed in the 1970s. The building was surrounded by asphaltic concrete, two retention ponds/bioswales, and some gravel and dirt open areas. A chain link and corrugated metal fence surrounded the site perimeter. Land use in the vicinity includes a mix of industrial properties and Interstate 205 (I-205).

At the time of the assessment, the subject property was vacant and not in use. The most recent use of the property was as a container processing facility.

The subject property is bounded to the northwest by I-205. Jonson Lake lies beyond the I-205 right-of-way. To the southwest, south, east, and northeast, the subject property is bounded by several industrial properties, including an Auto body shop and Painting business, automobile salvage yard, and industrial warehouse buildings.

Geographic Setting and Topography. The subject site is generally level with elevations of around 20 to 30 feet above mean sea level (see Figure 1). The subject property and surrounding area lie within the historic flood plain of the Columbia River, between the Columbia River and the Columbia Slough in Northeast Portland, Oregon. Prior to 1917, the Columbia Slough mainstem channel was seasonally connected to the Columbia River, and part of the active floodplain of the Columbia River, seasonally inundated forming and re-forming side channels, wetlands, sloughs, and shallow lakes. Between 1917 and 1919, several levees were constructed along eth Columbia River to control seasonal flooding and promote agricultural development of the area.

Geologic Setting. The subject property is located within the Portland Basin, a down warped northwest trending basin with a bowl-like structure filled with up to 1,700 feet of sedimentary materials that are thickest near the Columbia and Willamette rivers. Columbia River Basalt forms the basement rock of the basin. Sedimentary deposits within the basin from oldest to youngest include: Sandy River Mudstone, Troutdale Formation, and Younger alluvial sediments. Near the Columbia River, flood deposits are coarsegrained, consisting of basaltic sand and gravel with cobbles and boulders and can range up to 200 feet thick. Overbank Deposits consist of finer-grained sediments in flood plains adjacent to river channels. These deposits can form natural levees along the riverbank immediately adjacent to the river channel. Floodplain environments are characterized by low relief, generally poor drainage, slow rates of accumulation, and fine, organic rich sediment such as silt or clay. The Overbank Deposits consist of soft to stiff, gray/brown layers of silty clay, silt, silty sand, and sandy silt.

According to the U.S. Geological Survey (USGS) *Water-Supply Paper 1793, titled Ground Water in the East Portland Area, Oregon*, the subject property and surrounding properties are underlain by Recent Younger Alluvium (Pal) composed of gravel, sand, silt, and clay, slightly stratified. Soils encountered during this assessment included silts and fine sands overlying medium to coarse gravels, consistent with alluvium.

Hydrogeologic Setting. Current nearby surface water bodies include Johnson Lake and the Columbia Slough, located within approximately one-quarter (0.25) mile of the property. The Columbia River is located approximately 1 mile north of the subject property.

The upper-most regional ground water aquifer which supplies occur within the water-bearing gravels of the Troutdale Gravel Aquifer (TGA) beginning at depths of over 200 feet bgs. In addition to the regional ground water aquifer, soil borings advanced at the subject site encountered a shallow, perched ground water aquifer within fine-grained sediments less than 15 feet bgs beneath the subject property. Due to the close proximity to the Columbia River, which is tidally influenced in the Portland area, the general flow of ground water beneath the subject vicinity is also anticipated to be partially influenced by tidal fluctuations. However, the predominant ground water flow direction is anticipated to follow regional surface topography and generally flow north to northwest.

5.0 Methods

5.1 Objectives

The assessment objectives were to:

- Assess whether any previously undiscovered features of concern remain at the site with focus on additional USTs and drywells.
- Assess soil and ground water conditions in former operational areas of potential concern relative to the presence of petroleum products and hazardous substances.
- Assess whether historical onsite and offsite land uses have resulted in vapor phase hazardous substances beneath the subject property.

Additional objectives for the work included:

- To perform the work efficiently and cost-effectively, minimizing interference with any site operations.
- To perform the work in a safe manner for technical personnel and site residents.
- To document information and data generated in a professional manner that is valid for the intended use.

5.2 Preparation Activities

ENW performed or coordinated the following activities before commencing all field activities.

Plan Preparation. In-house Sampling and Analysis were prepared for the project.

One Call Notification. Prior to any subsurface site work, a call was placed with One Call Utility Notification Service to identify and locate all public utilities near each of the proposed sampling locations.

5.3 **Geophysical Survey**

A geophysical survey was conducted at the subject property on February 14, 2023. Geophysical services were subcontracted to GeoPotential of Clackamas, Oregon to: 1) confirm the location of private utilities not covered by One Call; and, 2) scan the site for buried tanks or other environmental features of concern. Results were considered in placement of final boring locations, as necessary.

The survey utilized the following equipment:

Aqua-Tronics Electronic Tracer - electromagnetic sensing equipment designed to identify subsurface anomalies. In the inductive mode, the equipment is used to sense metallic objects in the subsurface. A conductive mode allows for tracing electrical conduit and metallic pipelines.

Magnetometer - used as a complement to the Aqua-Tronics instrument, the magnetometer senses horizontal variations in the local magnetic field caused by buried ferrous metal objects such as USTs, drums, pipes, and debris-filled trenches. (Magnetic surveys can only detect ferrous metal objects. Interference caused by observed surface metal objects limits the accuracy of the survey. The anomalies produced by fences, power lines, cars, and buildings can easily mask an anomaly caused by an underground target.)

Ground Penetrating Radar (GPR) - GPR uses short impulses of high-frequency radio waves directed into the ground to acquire information about the subsurface. GPR can be used to accurately locate both metallic and non-metallic objects (e.g., USTs, utilities, and drums) from a few inches below the surface to depths of up to 30 feet. GPR may also be effective at delineating trenches and excavations.

5.4 Surface Soil and Sediment Investigation

To assess sediments within the two ponded areas, ENW staff collected two (2) incremental soil samples on February 14, 2023, using ISM developed by the ITRC.² Under this method, the area of interest is referred to as a decision unit (DU) and the compositing and subsequent laboratory processing provides a reliable estimate of the average contaminant concentration across the DU that can be used to make riskbased decisions. For the purpose of this investigation, decision units DU01 and DU02 are defined as the present footprint of the west and east retention ponds, respectively, as illustrated on Figure 3.

The samples from each DU consisted of 50 equal-volume incremental subsamples collected from pond sediments from the water-sediment interface to 0.5-foot depth at systematic random positions across the pond using a stainless-steel hand auger.

In many of the increment locations, auger refusal was caused by coarse gravels and cobbles lining the pond bottom before a sample could be collected. In these instances, additional attempts were made within a few feet of the original increment location until adequate sample volume was recovered. Each incremental soil or sediment sub-sample consisted of an approximate 40-gram soil mass. Gravel (>1/8inch diameter) and debris (roots, twigs, bark) were removed prior to collection.

² The ISM protocol is explained in detail in a February 2012 guidance document issued by the Interstate Technology Regulatory Council.

The 50 sample increments from each DU were collected and placed into a laboratory-provided one-gallon glass sample jars (one for each DU), using clean nitrile gloves. Sample jars were sealed with a Teflon-lined lids, uniquely labelled, and preserved on ice pending transport to the laboratory under chain-of-custody procedures.

5.5 Soil Boring and Sampling

Using information in Blackstone's Phase I ESA and results from the geophysical survey, ENW advanced 12 hand auger/direct-push borings (B01 through B12) proximate to features of possible concern for the purposes of collecting soil and reconnaissance ground water samples for laboratory analysis. ENW advanced the soil borings using a decontaminated hand auger to between 3 and 7 feet bgs and the remaining borings to between 02 and 15 feet bgs using a percussive Direct Push Technology (DPT) drill rig operated by Cascade Drilling of Clackamas, Oregon under the direction of an ENW geologist. The locations of borings B01 through B12 are illustrated on Figure 3. Soil materials recovered from the hand auger bucket or DPT sleeves were inspected continuously for the presence of contamination by visual and olfactory inspection. In addition, semi-quantitative headspace screening was performed by placing selected soil samples in a plastic sealable bag, breaking the soil core to expose surface area inside the bag, and inserting a photoionization detector (PID) tip into the top of the bag. The cores were logged (Appendix B) with special attention to description of lithology, color, moisture, physical properties and odor.

Soil borings intended for collection of reconnaissance ground water samples were completed to approximately five (5) feet below the first observed ground water table (i.e., approximately 10 to 15 feet bgs). During each sampling interval, select portions of the soil core were retained for possible laboratory analysis. Soil samples were retained for possible laboratory analysis from zones where field screening identified evidence of possible impacts. If soil impacts were not indicated, at least one soil sample was collected from each boring from appropriate depths unique to the feature being explored.

Soil samples were placed directly into labeled laboratory-prepared glass sample jars using clean Nitrile-gloved hands and sealed with a Teflon-lined lid. Samples for analysis of volatile constituents were additionally collected using sampling procedures prescribed by the Environmental Protection Agency (EPA) Method 5035. All samples were preserved on ice in a cooler pending transport to the laboratory following chain-of-custody protocols.

5.5.1 Reconnaissance Ground Water Sampling

Upon reaching total depth, the drill tooling was removed from select borings, and a temporary well point was installed in preparation for reconnaissance ground water sampling. Approximately one (1) to three (3) liters of ground water was pumped from each boring using a low-flow peristaltic pump and dedicated polyethylene tubing to "purge" the standing water from the borehole and to draw representative ground water into the temporary well point. Following purging, a reconnaissance ground water sample was collected from clean, dedicated polyethylene tubing connected to a peristaltic pump set at a low rate to minimize off gassing of volatile contaminants. The sample was transferred into laboratory-supplied containers with appropriate preservative, uniquely labelled, documented on a chain-of-custody record, and placed in a cooler on ice pending transport to the laboratory. Reconnaissance ground water field sampling data sheets (FSDS) are included in Appendix C.

Each boring was designated with a "B" prefix and a number (e.g., B01, B02, etc.). Individual soil samples were designated with the sample's depth appended to the boring number, e.g., B01-6.5 would indicate a sample collected at 5 feet bgs in boring B01. Additional qualifiers such as a sample collected at the soil/water interface (SWI) were appended to the boring number as appropriate (e.g., B05-9-SWI would indicate a soil water interface sample collected from 9 feet bgs in boring B05). Reconnaissance ground water samples were labeled B07-GW-15 indicating the sample was collected from boring B07 with the bottom of the temporary well screen located at 15 feet bgs.

All non-disposable sampling equipment was decontaminated to minimize the potential for cross-contamination. Following sampling, all borings were properly abandoned in accordance with Oregon regulations and the pavement/asphalt surface restored, as applicable. Start cards and well reports will be submitted to the OWRD as required.

5.6 Waste Management and Disposal

Investigation-derived waste (soil and purge water) was contained inside labelled Department of Transportation (DOT)-certified 55-gallon drums and staged on-site pending appropriate disposal.

5.7 Laboratory Sub-sampling, Compositing, and Analytical Methods

Soil and sediment samples for this investigation were delivered to Friedman & Bruya, Inc. (F&BI) of Seattle, Washington for analysis under formal chain-of-custody protocol. Prior to analysis, F&BI processed the ISM samples in accordance with ITRC protocols (air dried, sieved, subsampled, and composited).

Samples were analyzed for select constituents using the analytical methods presented in Table 5-1. Copies of the F&BI and Fremont laboratory analytical reports and chain-of-custody documentation are provided in Appendix B.

Table 5-1. Analytical Plan

Analytical Method	Constituents	Soil	Reconnaissance Ground Water	Sub-slab/Soil Gas
NWTPH-HCID	Total petroleum hydrocarbon identification (HCID)	All samples		
NWTPH-Gx	Total Petroleum Hydrocarbons (TPH)–Gasoline-range quantification (GRO)	Samples where GRO indicated present by TPH-HCID.	All samples	
NWTPH-Dx	TPH as Diesel- and Residual-range organics (DRO and RRO, respectively)	Samples where DRO and/or RRO were indicated present by TPH-HCID.	All samples	
Environmental Protection Agency (EPA) 8260B	Volatile organic compounds (VOCs) – Full List	Samples where GRO, DRO and/or RRO were detected by NWTPH- HCID.	All samples.	
EPA 6020B	Resource Conservation and Recovery Act (RCRA) 8 Metals (Totals)	All samples	All samples	
EPA Method 8082E	Polychlorinated Biphenyls (PCBs)	Samples where RRO was detected by NWTPH-Dx	All samples	
EPA Method 8070A	Polynuclear Aromatic Hydrocarbons (PAHs)	Samples where DRO and/or RRO were detected by NWTPH-Dx	All samples	
EPA Method TO- 15	Gasoline-range organics (GRO) and select VOCs			All Samples
	2-Propanol (as leak detection)			

5.8 Cleanup Standards and Other Numeric Criteria

Oregon's environmental cleanup rules (Oregon Administrative Rules [OAR] 340-122) establish the standards and procedures for the protection of current and future public health, safety and welfare, and the environment in the event of a release or threat of a release of a hazardous substance. In the event of a release of a hazardous substance, remedial actions shall be implemented to achieve:

- Acceptable risk levels defined in OAR 340-122-0115, as demonstrated by a residual risk assessment; or
- Numeric cleanup standards developed as part of an approved generic remedy identified or developed by the Department under OAR 340-122-0047, if applicable; or
- For areas where hazardous substances occur naturally (e.g., metals, etc.), the background level of the hazardous substances, if higher than those levels specified above.

Acceptable risk levels may be evaluated through conducting a site-specific risk assessment that calculates exposure point concentrations for specific exposure pathway receptor-scenarios or use generic for hazardous substances under ODEQ's Risk-Based Decision Making (RBDM) guideline to streamline the risk assessment process (see below).

The assessment and remediation of hazardous substances in Oregon are conducted according to OAR 340, Division 122, *Hazardous Substance Remedial Action Rules*. The following cleanup standards and numeric criteria may be applied in evaluating site assessment results.

Soil Matrix. Under the Soil Matrix Cleanup Option Rules (OARs 340-122-0320 through 0360) cleanup standards are determined by assigning site-specific values to environmental parameters (e.g., soil type, depth to ground water, etc.). For purposes of risk-based evaluations of soil, Soil Matrix Cleanup Levels are often used for screening purposes, where potentially significant levels of petroleum contamination may be present if concentrations of total petroleum hydrocarbons in soil exceed their respective soil matrix cleanup level or soil matrix level I for conservative screening purposes and may require remedial action. Concentrations of total petroleum hydrocarbons lower than their corresponding Soil Matrix Cleanup Level or Soil Matrix Level I if a cleanup level has not been determined, usually do not require any additional cleanup or risk management.

ODEQ Risk-Based Concentrations. ODEQ has compiled default risk-based screening reference levels (RBDM guidance document) for common exposure-pathway receptor-scenarios that may be utilized in lieu of site-specific risk calculations (OAR 340-122-0115). In particular, the pre-calculated RBC represents the concentration of a constituent of interest (COI) in the impacted medium (e.g., soil, ground water, or air) that potentially represents an unacceptable risk level.

The published RBCs represent a conservative default concentration of a COI in an impacted medium (e.g., soil, ground water, soil gas, or air). When COI concentrations on a site exceed the RBC, unacceptable human health impacts are possible.

- For carcinogens, the regulatory standard is represented by an excess cancer risk of one in one million (1x10⁶), and
- For non-carcinogens, this is represented by a Hazard Index of 1.

RBC exceedances typically trigger further investigation and potentially a human health risk assessment. Therefore, RBCs can be applied at sites as generic, conservative cleanup standards and are routinely used by ODEQ to determine if a site requires additional action. Site-specific parameters used in the equations to develop the RBCs are often adjusted to match actual conditions in developing site-specific cleanup levels.

RBCs are generally used to evaluate sampling analytical results as follows:

- ODEQ's lowest RBC for all pathways for residential receptors is used as an initial 'conservative' screening of a constituent. If a constituent's concentration exceeds its screening level risk-based concentration (SLRBC), it requires further evaluation. Otherwise, the constituent is considered unlikely to pose unacceptable risk to any human receptor.
- Because ODEQ Generic RBCs are based on several conservative assumptions (e.g., duration and type of exposure), exceeding an SLRBC does not necessarily indicate that additional investigation or remediation is required. Rather, the exceedance of a SLRBC may indicate that additional investigation and evaluation, including consideration of site-specific information (e.g., current, and future land uses), may be necessary to determine if remediation or other actions are necessary. In many cases, it is not possible to determine whether unacceptable risks to human health and the environment are present, and require further action, until a risk assessment, including evaluation of current and reasonably likely land and water uses, is complete.
- In general, ODEQ considers chemical concentrations less than SLRBCs to be protective of human health.

Soil gas results were compared to ODEQ's screening level RBC (SLRBC) for the Vapor Intrusion into Buildings pathway based on a residential exposure scenario.

EPA Vapor Intrusion Screening Levels. U.S. Environmental Protection Agency's (EPA's) vapor intrusion screening levels (VISLs) for residential and commercial receptors were utilized for screening soil gas and sub-slab vapor.

Should constituents be identified that also exceed their generic, but exposure pathway- and receptor-specific RBCs, then the appropriateness of additional site-specific methods allowed under the RBDM guidance document will be evaluated (e.g., the development of site-specific RBCs, sampling of soil gas and/or vapor, etc.).

Other Numeric Criteria. In addition to the above risk-based cleanup standards, concentrations were also compared to the following numeric criteria to determine if possible enrichment was occurring, and/or determine if there may be offsite soil disposal restrictions.

- **Background Metals.** Analytical data were compared with background concentrations established by ODEQ. [1],[2] ODEQ does not require cleanup for metals concentrations below default background concentrations. Background concentrations are used for screening data for metals in soil as part of the risk assessment.
- Clean Fill Screening Levels. Analytical data for organics were compared to clean fill screening levels (CFSLs) for upland sites established by the ODEQ. [3] ODEQ does not require materials in which contaminant concentrations are less than or equal to CFSLs to be regulated as a solid waste. Rather, these materials may be placed at upland locations that are far enough away from a surface water body, or where there are sufficient controls to avoid erosion into surface water. CFSLs are used to determine if impacts to soil may require future management and are not used for risk screening.

6.0 Findings

The findings of this Focused Phase II ESA are presented in this section. Please reference:

- Figure 2 for the site layout and locations of magnetic anomalies.
- Figure 3 for sampling locations.
- Appendix A for a photolog of site work.
- Appendix B for boring logs.
- Appendix C for reconnaissance ground water FSDS sheets.

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^[1] ODEQ, March 2013, Development of Oregon Background Metals Concentrations in Soil: Technical Report, Land Quality Division Cleanup Program.

^[2] ODEQ, October 28, 2002, Default Background Concentrations for metals, Memo from Toxicology Workgroup to DEQ Cleanup, Table 1 – Oregon DEQ Suggested Default Background Concentrations for Inorganic Contaminants in Various

^[3] ODEQ. July 2014. Clean Fill Determinations: Internal Management Directive, last updated February 21, 2019, by Heather Kuoppamaki.

- Tables 1, 2, and 3 for a comprehensive summary of analytical results for soil, reconnaissance ground water, and sub-slab vapor/soil gas, respectively.
- Appendix D for laboratory analytical reports.
- Table 6-1 (below) for a list of sampling locations.

Table 6-1. Summary of Sampling Locations

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Borehole / Location ID	Date Sampled	Depth Sampled (feet)	Sampled By	Location								
Soil												
DU01	2/14/2023	0.5	ENW	West Retention Pond								
DU02	2/14/2023	0.5	ENW	East Retention Pond								
B01	2/14/2023	2	ENW	MA01								
B02	2/14/2023	2	ENW	MA03								
DOO	0/45/0000	5	ENW	NACA: Filled Cores								
B03	2/15/2023	7	ENW	MA04: Filled Sump								
B04	2/15/2023	9	ENW	South of Suspected UST								
B05	2/16/2023	9	ENW	MA13: Former ASTs								
B06	2/16/2023	1 9	ENW	MA11: Filled Septic								
B07	2/16/2023	9	ENW	West Yard								
B08	2/16/2023	9	ENW	North Yard								
B09	2/16/2023	7	ENW	North Yard								
B10	2/16/2023	9	ENW	North Yard								
B11	2/16/2023	5	ENW	North Yard								
B12	2/16/2023	9	ENW	MA 10								
Reconnaissance	Ground Wa	ter										
B04	2/16/23	12.5	ENW	South of Suspected UST								
B05	2/16/23	12.5	ENW	MA13: Former ASTs								
B06	2/16/23	15	ENW	MA11: Filled Septic								
B07	2/16/23	15	ENW	West Yard								
B08	2/16/23	13	ENW	North Yard								
B09	2/16/23	14.5	ENW	North Yard								
B10	2/16/23	14.5	ENW	North Yard								
B11	2/16/23	15	ENW	North Yard								
B12	2/16/23	15	ENW	North Yard								
Soil Gas												
SUB01	2/15/23	sub-slab	ENW	Below building slab								
SUB02	2/15/23	sub-slab	ENW	Below building slab								
SUB03	2/15/23	sub-slab	ENW	Below building slab								
SUB04	2/15/23	sub-slab	ENW	Below building slab								
SG01	2/15/23	5	ENW	East side of building								
SG02	2/15/23	5	ENW	East side of building								

6.1 Geophysical Survey

On February 14, 2023, GeoPotential conducted the geophysical survey of accessible portions of the site using the electromagnetic scanner followed by the magnetometer and GPR to further investigate magnetic anomalies. Additionally, ENW used a RIGID SeeSnake® downhole camera system to trace a buried storm sewer line in the southwest corner of the site to further evaluate potential environmental concerns. Twenty magnetic anomalies (MA01 through MA20) were detected by the survey and their locations are presented on Figure 2.

Of the anomalies discovered, the following were interpreted as potential features of environmental concern and were further explored with additional soil borings and sample collection. The geophysical survey did not identify evidence of any UICs on the subject property:

- MA01 –above ground storage tank (AST) for boiler located inside a curbed containment area.
 Floor of containment observed to be stained with a petroleum odor. Concrete floor of containment had cracks filled in with caulking.
 - Sited boring B01 in containment floor to evaluate whether petroleum had impacted subsurface soils beneath the concrete containment feature.
- MA02/MA03 Zipper trench system filled in with concrete (MA02). Trench appeared to connect to a 3' x 4' sump feature (MA03). Estimated depth = 3'.
 - Site boring B02 on west side of sump to assess soils below the sump.
- MA04 trench leading to a 7' x 7' square patch in concrete (MA04). Based on GPR reflection, the estimated depth of the anomaly was approximately 3'.
 - o Boring BO3 placed in center of 7' x 7' anomaly to assess underlying soils.
- MA10 Suspected UST. Large metallic object measuring 8.5' x 18' and oriented in the north-south direction. The GPR reflection suggested the feature was buried approximately 3' below surface with a radiused top and a magnetic high detected at its south end. These characteristics could be suggestive of a cylindrical UST with a manway and fill port. Limited physical investigation suggested that the object appeared to contain sand and may have been previously decommissioned. The extent and volume of sand fill material, if present in the tank, could not be determined given the limited access to the suspected UST's interior.
 - Borings B04 and B12 sited on either end of MA10 to assess if the suspected UST had leaked.
- MA11 Suspected former septic tank feature. Anomaly immediately south of MA11 surrounded by square, buried concrete walls containing an area measuring 20' x 14' in size. Interior of concrete border was filled with a soil material exhibiting an organic odor. A signature suggestive of a buried utility ran from this feature toward an existing drain feature to the west. A SeeSnake was used to trace two lines from the drain feature; however, the camera met with refusal inside the clogged pipe before the outlets could be determined. The pipe ran along west side of MA11 in north-south orientation. MA11 and piping is suggestive of a possible former septic tank system.

- o Boring B06 was placed next to MA11 to assess subsurface soil and shallow ground water conditions below the feature.
- **MA13** two fabricated metal saddles next to reinforced concrete apron along south side of building; possible former AST location; staining and odor on ground surface nearby.
 - o Boring B05 was sighted to assess subsurface conditions beneath the surface-stained area.

The remaining magnetic anomalies were either too small, did not exhibit features typical of a tank, drywell, sump, or other environmental feature of potential concern, or the feature was confirmed by excavation and determined to pose a low or no environmental threat:

- MA05 MA06/MA07—circular patches in warehouse floor measuring 10.5" diameter, some with metal rings around them. Interpreted as former footings for machinery.
- MA08/MA09 Two patches measuring 8' x 7' and 5' x 12,' respectively. No metallic objects confirmed. GPR reflections were not suggestive of fill such as would be placed in a former tank excavation.
- MA12 4" dia. PVC cleanout west of catch basin on west side of building.
- MA14 Survey marker on east side of building.
- MA15 ABS cleanout southwest corner of site.
- MA16 2.5' x 2.5' square magnetic signal. Explored with shovel and hand auger to refusal at 3'.
- MA17 3' x 4' magnetic signal. Explored with shovel but nothing definitive uncovered.
- MA18 2.5' x 2.5' magnetic signal in loading dock asphalt. GPR scan inconclusive; may have flat or curved top.
- MA19/MA20 buried diamond plated piece of metal next to old concrete pad.

6.2 Soil and Ground Water Investigation

Except for borings inside the warehouse, subsurface soil materials in borings generally consisted of approximately nine (9) to 14 feet of unconsolidated silts, medium-grained sands, and silty sands. These fine-grained soil materials were underlain by coarse gravels with silt and sand which extended to the maximum depth drilled of 15 feet bgs. Saturated conditions (i.e., shallow ground water) occurred in all borings at between five (5) and 12 feet bgs.

Borings inside the warehouse building (B01 through B03) penetrated six (6) to eight (8) inches of reinforced concrete slab, then up to seven (7) feet of fine-grained sand (engineered fill material).

Woody debris suggestive of Undocumented Fill was encountered in borings B03, B07, and B11.

During drilling, ENW observed field evidence of impacts in three (3) borings (B01 B02 and B03) indicated by soil vapor headspace readings up to 46.8 parts per million by volume (ppmv).

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6.2.1 Laboratory Results – Soil

The results of laboratory analysis of soil samples are summarized on Table 1, behind the Tables tab following text. The results on Table 1 are compared to ODEQs Soil Matrix cleanup levels, ODEQ SLRBCs, ODEQ clean fill screening levels, and Regional Background Concentrations of Metals in Soils in the Portland Basin Region.

Petroleum Hydrocarbons. Laboratory analysis by NWTPH-HCID did not detect the presence of GRO above the laboratory method reporting limit (MRL) in any of the soil samples analyzed. DRO and RRO were detected in the 0.5-foot samples from DU01 and DU02, the 2-foot sample at B02, and the 1-foot sample at B06. In addition, RRO was detected in the 2-foot sample in boring B01.

DRO in sample B02-2 and B06-1 exceeded ODEQ's Level 2 Soil Matrix Cleanup Level of 500 milligrams per kilogram (mg/Kg), and ODEQ's SLRBC of 1,100 mg/Kg. RRO in the same two samples exceeded the Soil Matrix Cleanup Level and the SLRBC for RRO of 2,800 mg/Kg. Both DRO and RRO in B02-2 and B06-1 also exceeded their respective and CFSLs.

Volatile Organic Constituents (VOCs). Soil samples DU01-0.5, DU02-0.5, B01-2, B02-2, and B06-1 were further analyzed for VOCs typically related to DRO and RRO petroleum mixtures by EPA 8260. Laboratory analysis reported the following.

- Dichloromethane was detected in samples from DU01 and DU02; however, the laboratory determined its presence was due to a laboratory contaminant and not the result of a release at the site.
- Naphthalene, tetrachloroethylene (PCE), and trichloroethylene (TCE)were detected in the sample from B02 at 0.16 mg/Kg, 13 mg/Kg, and 0.056 mg/Kg, respectively. These concentrations are greater than the respective ODEQ SLRBCs and CFSLs for these constituents.
- All remaining VOCs were either not detected or were detected below the ODEQs most stringent human health risk-based screening levels.

Polynuclear Aromatic Hydrocarbons (PAHs). Samples containing DRO or RRO were further characterized for PAHs by EPA Method 8270. Laboratory analysis detected several PAH constituents above MRLs in four of the five samples analyzed.

- Benzo(a)pyrene (B[a]P) at 0.06 mg/Kg and 0.16 mg/Kg were reported in samples from DU01 and DU02, respectively. The reported concentration in DU02 exceeded the ODEQ SLRBC of 0.11 mg/Kg.
- Benzo(b)fluoranthene, chrysene, fluoranthene, indeno(1,2,3-cd)pyrene, and pyrene were
 detected at concentrations above their respective laboratory MRL in samples from DU01 and
 DU02; however, none of the detections exceeded the respective ODEQ SLRBCs.
- Acenaphthene, anthracene, chrysene, fluoranthene, fluorene, and pyrene were detected in the sample from BO2; however, none of the detections exceeded the respective SLRBCs.

Polychlorinated Biphenyls (PCBs). Since PCBs can be associated with certain heavy petroleum range mixtures, soil samples from DU01, DU02, B01, B02, and B06 were further analyzed for PCBs (as Aroclors)

by EPA Method 8082. Laboratory analysis of soil samples detected PCBs at concentrations above the laboratory MRL in four of five samples analyzed.

- PCBs were detected in ISM pond sediment samples DU01 and DU02 and the sample from B06 at the 1-foot sample depth at 0.3 mg/Kg, 0.51 mg/Kg, and 0.34 mg/Kg, respectively. All PCB detections exceeded the respective ODEQ SLRBC for total Aroclors of 0.23 mg/Kg and the ODEQ CFSL of 0.034 mg/Kg.
- PCBs were detected in the soil sample from B01 above the laboratory MRL; however, the
 detection was not greater than the ODEQ SLRBC. The reported concentration marginally
 exceeded the ODEQ CFSL of 0.034 mg/Kg.

RCRA Metals. All soil samples were analyzed by EPA 6020 to screen for the presence of total RCRA metals in soil and pertinent results were as follows:

- While total arsenic exceeded ODEQ's SLRBC, its concentration was less than the regional default background concentration of 8.8 mg/Kg for the Portland Basin, suggesting arsenic is not enriched at this location.
- Total lead was detected at concentrations ranging from 4.06 mg/Kg to 54.3 mg/Kg. The reported
 concentrations in DU01 and B06 exceeded ODEQ's SLRBC of 30 mg/Kg and the ODEQs regional
 default background concentration of 28 mg/Kg, suggesting lead in soil/sediment may be enriched
 at these locations.
- Barium and chromium were detected above the laboratory MRL in all samples; however, none of the detections of up to 148 mg/Kg barium and up to 20 mg/Kg chromium exceeded the respective ODEQ's SLRBCs or regional default background /CFSLs.
- Total cadmium, mercury and silver were below the laboratory MRL in all samples.

6.2.2 Laboratory Results – Reconnaissance Ground Water

The results of laboratory analysis of reconnaissance ground water samples are summarized on Table 2, behind the Tables tab following text. Results in Table 2 are compared to ODEQs SLRBCs and ODEQ suggested default background concentrations for inorganic contaminants in fresh water.³

Petroleum Hydrocarbons. GRO and RRO in the sample from boring B12, and DRO in borings B06 through B12 exceeded ODEQ's respective SLRBCs; however, the laboratory noted that the pattern of peaks associated with the DRO detections at all locations is not indicative of the fuel standard used for quantitation, suggesting that DRO in the sample may be overlap from the gasoline or heavy oil range, or representative of a weathered product. RRO was not reported above the laboratory MRL in borings B04 through B11.

Volatile Organic Constituents (VOCs). Nine reconnaissance ground water samples were analyzed for VOCs and the following pertinent results were reported.

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³ For reference only. ODEQ prefers a site-specific determination of background concentrations; however, the default values may be used during the screening phase of a site investigation to make an initial assessment of whether metals concentrations at that site exceed regional background concentrations.

- Chloroform was detected in samples from B09, B10, and B11 at concentrations above the SLRBC for chloroform of 0.22 micrograms per liter (µg/L).
- Naphthalene at 1.1 μg/L in the sample from boring B12 exceeded the SLRBC of 0.17 μg/L.
- All remaining VOC constituents were either not detected or were detected below screening level concentrations that would be of concern.

Semi-Volatile Organic Constituents (SVOCs). The results of PCBs and PAHs analysis did not detect SVOC constituents except for two constituents (acenaphthene and fluorene) in the sample from boring B12 which did not exceed their respective SLRBCs.

Dissolved Metals. Of the RCRA 8 metals analyzed, barium was the only constituent detected in all samples. Its concentration did not exceed its screening level RBC in any of the samples.

6.2.3 Laboratory Results – Sub-slab Vapor/Soil Gas

The results of laboratory analysis of sub-slab vapor and soil gas samples are summarized on Table 3, behind the Tables tab following text. Table 3 compares results to the most stringent of ODEQ's generic default RBCs for the *Vapor Intrusion into Buildings* and *Volatilization to Outdoor Air* exposure pathways, as well as EPA's residential Vapor Intrusion Screening Levels (VISLs).

Laboratory analysis detected several VOC constituents in one or more samples during the sampling event. Of the detected VOCs, cis-1,2-DCE, naphthalene, PCE, and TCE were greater than their respective SLRBCs for the *Vapor Intrusion into Buildings* exposure scenario and their respective EPA VISLs.

6.2.4 Data Validation

A review of the laboratory reports for soil, ground water and soil gas samples indicates samples were generally analyzed within appropriate quality assurance/quality control procedures and specified holding times (see Appendix D for laboratory data validation form completed for this project).

The levels of isopropyl alcohol in sub-slab vapor samples SUB01 through SUB04 and soil gas samples SG01 and SG02 were within ODEQ sampling requirements of less than five (5) percent ambient air contribution, and ENW's more conservative in-house screening level of 5,000 ug/m³, during the sampling event.⁴

7.0 Discussion

This section presents a discussion of the location of impacted media at the site, including areas where site contaminant poses a potentially unacceptable human health risk, and areas where impacts do not likely pose an environmental concern. This discussion is followed by a preliminary screening of human health risk drivers and considerations for contaminated media disposal to provide further understanding of potential environmental liabilities.

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⁴ ODEQ, March 25, 2010. Guidance for Assessing and Remediating Vapor Intrusion in Buildings.

7.1 Further Evaluation of Contaminants by Area

The following site features and locations reported contaminants of interest (COI) at concentrations exceeding their respective human health screening levels, and therefore, may represent a potentially unacceptable human health risk under the most stringent residential land use scenario.

- Pond Sediments (DU01 and DU01). Laboratory analysis of ISM samples collected from storm water pond sediments revealed the presence of PCBs, total lead, and B(a)P at concentrations greater than their respective SLRBCs. The impacted pond sediments represent a potential future liability associated with offsite discharge of storm water pollutants to nearby surface water bodies within the Columbia Slough Source Control Study Area.
- Sump Features Inside Warehouse (MA02 and MA03). The analytical results of the soil samples collected from boring B02 revealed concentrations of DRO, RRO, naphthalene, PCE and TCE at concentrations exceeding the applicable ODEQ SLRBCs. Soil impacts were identified in the sample from two (2) feet bgs. No additional soil samples were collected; therefore, the vertical extent of shallow impacts is unknown at this time and ground water at this location was not assessed as part of this investigation.
- Potential Septic Tank Feature (MA11). Laboratory analysis of a soil sample collected adjacent to MA11 from boring B06 reported DRO, RRO, PCBs and total lead at concentrations greater than the applicable ODEQ SLRBCs. A deeper sample collected at 9 feet bgs did not contain total petroleum hydrocarbons above the laboratory MRL. Several metals were reported; however, all detections were below their respective SLRBCs. The soil data suggests that shallow soil impacts are vertically isolated. A reconnaissance ground water sample collected from B06 (next to the septic feature) contained DRO above the ODEQ SLRBC. It is unclear whether DRO impacts to ground water are from a potential historical septic tank release or due to more widespread ground water impacts.
- Vapor Intrusion Conditions Beneath On-site Warehouse Building. Several VOCs, including PCE and TCE, exceeded the Vapor Intrusion screening levels in sub-slab vapor samples collected from SUB01 through SUB04 beneath the building slab. TCE was also detected above the screening level in soil gas sample SG01 located outside the east side of the building. The presence of VOCs in sub-slab vapor and soil gas indicates a potential contaminant source in soil and/or ground water beneath, and/or in the vicinity of, the onsite building.
- West Yard and North Yard Areas. Laboratory analysis of soil water interface samples from borings B07 through B11 did not detect petroleum hydrocarbons in soil at concentrations above the laboratory MRL. Several total metals were detected in soil; however, none of the detections were greater than the respective ODEQ SLRBCs. Reconnaissance ground water samples collected from B07 through B11 revealed the presence of DRO at concentrations greater than the SLRBC. Ground water impacts by DRO appear to be widespread beneath the site, and lateral extent of ground impacts beneath the subject site is not delineated at this time.
- Suspected UST. Several metals were detected in soil samples from borings B04 and B12 at either
 end of the suspected UST (MA10). Additionally, barium and several VOCs were detected in
 reconnaissance ground water samples from these borings at concentrations greater than the

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laboratory MRL but below their respective SLRBCs. The reconnaissance ground water sample from B12 also contained elevated concentrations of GRO, RRO and naphthalene above the applicable respective SLRBCs which may be suggestive of a release.

7.2 Soil Disposal Considerations

Several constituents in soil exceed ODEQ's CSFLs and therefore further characterization is required prior to future activities in which subsurface soils are disturbed and possibly removed from the subject site (i.e., excavation, trenching, etc.).

8.0 Conclusions and Recommendations

The information presented in this report has allowed ENW to draw the following conclusions regarding subsurface conditions at the subject property:

- A UST is suggested present near the southwest corner of the on-site warehouse building; however, this was not identified during a review of regulatory databases during Blackstone's previous Phase I ESA. Analytical findings suggest impacts to ground water adjacent to the feature.
- The subject property is reportedly listed on ODEQ's UIC database for operation of an unregistered UIC. Current ODEQ regulations require all UICs to be registered with ODEQ's UIC Program. No UIC devices were identified at the subject property during this assessment.
- Laboratory analysis of soil and sediment samples collected from twelve temporary borings and two decision units has revealed impacts to surface soils and subsurface soils at concentrations exceeding SLRBCs.
- ISM samples collected from two storm water retention ponds identified PCBs and petroleum hydrocarbons in sediments within both ponded areas. These ponds function as storm water retention facilities and are part of the site's storm water management system. Blackstone's Phase I ESA indicated the subject property was added to the ECSI database in 2012 due to concerns of stormwater runoff draining to the subject property and Johnson Lake. Sediments in the ponds were reportedly removed during a source control action in 2013. Depending on the storm water design, the presence of PCBs in pond sediments do not necessarily suggest a current threat to sediments in Johnson Lake. However, if the storm water retention ponds are not designed to trap sediment and are not properly maintained, the presence of PCBs in sediments could be considered a source of PCBs in storm water discharges to Johnson Lake.
- Shallow ground water impacts by DRO are widespread across the west and north yards of the
 facility. It should be noted that ground-water samples were not collected at all temporary boring
 locations during this focused assessment and therefore is considered a data gap.
- Several VOCs were detected in soil gas and/or sub-slab vapor at concentration exceeding SLRBC, some of which could pose a potential vapor intrusion risk to occupational occupants inside the warehouse building.

Based on the above findings, ENW recommends:

- The anomaly suggested to be a possible UST in the southwest portion of the subject property should be further investigated to confirm the source of this anomaly. If confirmed to be a UST, its regulatory status should be confirmed and further actions taken, as appropriate.
- Further site characterization is recommended to further understand the magnitude and extent of contamination beneath the subject property. This additional characterization should include, but is not limited to, further investigation to confirm the source of VOCs beneath the warehouse building. Following the completion of further investigation, an assessment of risk should be conducted to evaluate all soil, ground water and vapor exposure pathways.
- An engineering evaluation of the existing storm water controls, including two retention ponds, should be performed to ensure impacted sediment is not discharged to receiving waters.
- If a UIC(s) are discovered at the site, they should be properly registered and decommissioned, if appropriate.
- To address residual impacts to soil and ground water, a Contaminated Media Management Plan (CMMP) should be prepared to ensure appropriate future management and handling of impacted soil and shallow ground water media.

9.0 Limitations

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

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

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

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

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FOCUSED PHASE II ENVIRONMENTAL SITE ASSESSMENT 10103 NE Marx Street, Portland, Oregon

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

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

Le	ocation ID	DU01	DU02	B01	B02	В	03	B04	B05	В	306	B07	B08	B09
	Sample ID	DU01-230214-0.5-	DU02-230214-0.5-	B01-2	B02-2	B03-5	B03-7	B04-9-SWI	B05-9-SWI	B06-1	B06-9-SWI	B07-9-SWI	B08-9-SWI	B09-7-SWI
		IS	IS											
	Sampled	2/14/2023	2/14/2023	2/14/2023	2/14/2023	2/15/2023	2/15/2023	2/15/2023	2/16/2023	2/16/2023	2/16/2023	2/16/2023	2/16/2023	2/16/2023
Depth Samp	oled (feet)	0.5	0.5	2	2	5	7	9	9	1	9	9	9	7
Sa	Sampled By		ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW
	Location	West Retention Pond	East Retention Pond	MA01: Stained concrete floor of AST compound inside Warehouse	MA02/MA03: trench and sump feature	MA04: Potential Filled Sump	MA04: Potential Filled Sump	South of Suspected UST	MA13: Former ASTs	MA11: F	illed Septic	West Yard	North Yard	North Yard
Constituent of Interest	Note	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)
Volatile Organic Constituents	•													
Benzene	C, V	<0.03 (ND)	<0.03 (ND)	<0.03 (ND)	<0.03 (ND)					<0.03 (ND)				
Bromodichloromethane	C, V	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)					<0.05 (ND)				
Bromoform	C, V	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)					<0.05 (ND)				
Bromomethane	nc, v	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)					<0.5 (ND)				
Carbon tetrachloride	c, v	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)					<0.05 (ND)				
Chlorobenzene	nc, v	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)					<0.05 (ND)				
Chlorodibromomethane (dibromochloromethane)	C, V	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)					<0.05 (ND)				
Chloroethane (ethyl chloride)	nc, v	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)					<0.5 (ND)				
Chloroform	C, V	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)					<0.05 (ND)				
Chloromethane	nc, v	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)					<0.5 (ND)				
1,2-Dichlorobenzene	nc, v	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	0.13					<0.05 (ND)				
1,4-Dichlorobenzene	C, V	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)					<0.05 (ND)				
1,1-Dichloroethane	C, V	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)					<0.05 (ND)				
1,1-Dichloroethene	nc, v	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)					<0.05 (ND)				
cis-1,2-Dichloroethene	nc, v	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)					<0.05 (ND)				
trans-1,2-Dichloroethene	nc, v	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)					<0.05 (ND)				
Dichloromethane	C, V	11 lc	6.8 lc	<0.5 (ND)	<0.5 (ND)					<0.5 (ND)				
EDB (1,2-dibromoethane)	c, v	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)					<0.05 (ND)				
EDC (1,2-dichloroethane)	c, v	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)					<0.05 (ND)				
Ethylbenzene	c, v	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)					<0.05 (ND)				
MTBE (methyl t-butyl ether)	C, V	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)					<0.05 (ND)				
Naphthalene	c, v	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	0.16					<0.05 (ND)				
iso-Propylbenzene (cumene)	nc, v	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)					<0.05 (ND)				
Tetrachloroethene (PCE)	c, v	<0.025 (ND)	<0.025 (ND)	0.3	13					0.041				
Toluene	nc, v	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)					<0.05 (ND)				
1,1,1-Trichloroethane	nc, v	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)					<0.05 (ND)				
1,1,2-Trichloroethane	C, V	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)					<0.05 (ND)				
Trichloroethene	NA, v	<0.02 (ND)	<0.03 (ND)	<0.02 (ND)	0.056					<0.03 (ND)				
Trichlorofluoromethane (Freon 11)	nc, v	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)					<0.5 (ND)				
1,2,4-Trimethylbenzene	nc, v	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	0.091					<0.05 (ND)				
1,3,5-Trimethylbenzene	nc, v	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	0.058					<0.05 (ND)				
Vinyl chloride	C, V	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)					<0.05 (ND)				
Xylenes	nc, v	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)					<0.05 (ND)				
Metals	110, 4	(0.00 (ND)	(0.00 (ND)	(ND)	(ND)		l e			(14D)				
Arsenic	c, nv	2.66	3.47	2.89	2.27	5.73	4.05	3.23	3.92	3.23	2.67	4.12	6.92	5.23
Barium	nc, nv	140	147	90.1	95.5	135	148	103	108	88.8	89.6	95.3	92.5	149
Cadmium	nc, nv	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)
Chromium (III)	nc, nv	26.2	32.8	6.79	13.5	14	20	11.5	10.2	11.8	18.8	16.5	18.9	20.4
Lead	NA, nv	54.3	37.9	8.56	6.73	10.2	5.53	7.34	6.24	34.4	4.06	4.76	5.93	6.62
Mercury	nc, nv	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)
Silver	nc, nv	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)
CC.	110, 117	>1 (ND)	ST (ND)	~ I (ND)	ST (ND)	>1 (ND)	<1 (ND)	~1 (ND)	~1 (ND)	<1 (ND)	<1 (ND)	>1 (ND)	ST (ND)	ST (ND)

	Location ID	DU01	DU02	B01	B02	В	03	B04	B05	В	06	B07 B08		B08 B09
	Sample ID	DU01-230214-0.5- IS	DU02-230214-0.5- IS	B01-2	B02-2	B03-5	B03-7	B04-9-SWI	B05-9-SWI	B06-1	B06-9-SWI	B07-9-SWI	B08-9-SWI	B09-7-SWI
	Date Sampled	2/14/2023	2/14/2023	2/14/2023	2/14/2023	2/15/2023	2/15/2023	2/15/2023	2/16/2023	2/16/2023	2/16/2023	2/16/2023	2/16/2023	2/16/2023
	Depth Sampled (feet)	0.5	0.5	2	2	5	7	9	9	1	9	9	9	7
	Sampled By	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW
·		West Retention Pond	East Retention Pond	MA01: Stained concrete floor of AST compound inside Warehouse	MA02/MA03: trench and sump feature	MA04: Potential Filled Sump	MA04: Potential Filled Sump	South of Suspected UST	MA13: Former ASTs	MA11: Fi	led Septic	West Yard	North Yard	North Yard
Constituent of Interest	Note	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)
Semivolatile Organic Constituents														
Polychlorinated biphenyls (Total PCBs)	C, V	0.3	0.51	0.035	<0.02 (ND)	_	_	_		0.34	_		-	_
Polycyclic Aromatic Hydrocarbons														
Acenaphthene	nc, v	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	0.25					<0.05 (ND)				
Anthracene	nc, v	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	0.18					<0.05 (ND)				
Benz[a]anthracene	C, V	<0.05 (ND)	0.088	<0.05 (ND)	<0.05 (ND)					<0.05 (ND)				
Benzo[a]pyrene (BaP equivalents)	c, nv	0.06	0.16	<0.05 (ND)	<0.05 (ND)					<0.05 (ND)				
Benzo[b]fluoranthene	c, nv	0.085	0.18	<0.05 (ND)	<0.05 (ND)					<0.05 (ND)				
Benzo[k]fluoranthene	c, nv	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)					<0.05 (ND)				
Chrysene	c, nv	0.064	0.12	<0.05 (ND)	0.062					<0.05 (ND)				
Dibenz[a,h]anthracene	c, nv	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)					<0.05 (ND)				
Fluoranthene	nc, nv	0.058	0.16	<0.05 (ND)	0.083					<0.05 (ND)				-
Fluorene	nc, v	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	0.43					<0.05 (ND)				
Indeno[1,2,3-cd]pyrene	c, nv	0.057	0.14	<0.05 (ND)	<0.05 (ND)					<0.05 (ND)				-
Pyrene	nc, v	0.088	0.23	<0.05 (ND)	0.17					0.061				
Total Petroleum Hydrocarbons	•	•	•	•	•	•	•	•				•	•	•
Generic Gasoline (GRO)	nc, v	<20 (NP)	<20 (NP)	<20 (NP)	<20 (NP)	<20 (NP)	<20 (NP)	<20 (NP)	<20 (NP)	<20 (NP)	<20 (NP)	<20 (NP)	<20 (NP)	<20 (NP)
Generic Diesel / Heating Oil (DRO)	nc, v	35 x	41 x	<50 (ND)	1600	<50 (NP)	<50 (NP)	<50 (NP)	<50 (NP)	2000 x	<50 (NP)	<50 (NP)	<50 (NP)	<50 (NP)
Generic Mineral Insulating Oil (RRO)	nc, nv	920	570	1300	11000	<250 (NP)	<250 (NP)	<250 (NP)	<250 (NP)	7200	<250 (NP)	<250 (NP)	<250 (NP)	<250 (NP)

Notes: mg/Kg = milligram per kilogram or parts per million (ppm).

<# (ND) = not detected at or above the laboratory method reporting limit</p> shown.

NE = not established.

NP = not present at or above the laboratory method reporting limit shown (HCID analysis).

- = not analyzed or not applicable.

c = carcinogenic

nc = noncarcinogenic v = volatile

nv = nonvolatile

GRO = gasoline-range organics.

DRO = diesel-range organics.

RRO = residual-range organics.

Shaded concentrations exceed screening level risk-based



¹ Lowest Risk-Based Concentration for soil (screening level assumes residential use, from ODEQ RBCs dated May 2018).

(Y) indicates analyte not detected, but detection limit is above screening concentration.

j = The result is below method reporting limits. The value reported is an estimate.

x = the pattern of peaks is not indicative of the fuel standard used for quantitation.

Ic = The presence of the compound indicated is likely due to laboratory contamination.

BKG = constituent exceeded its SLRBC; however, was not detected above default backgound concentrations in soil

Note, B(a)P equivelents is calcuculated using Toxicity Equivelent Factors for all carcinogenic PAHs, per ODEQ guidance.

L	ocation ID	B10	B11	B12						
	Sample ID	B10-9-SWI	B11-5-SWI	B12-9-SWI				Background Concentrations		Exceeds ODEQs Screening-Level
Date	Sampled	2/16/2023	2/16/2023	2/16/2023			0050 0 :	(Regional Default)		SLRBCs (Soil) and/or Soil Matrix Cleanup
Depth Sam	pled (feet)	9	5	9	Maximum Soil	Soil Matrix	ODEQs Screening- Level Risk-Based		Clean Fill Screening Levels or Background	Level
Si	ampled By	ENW	ENW	ENW	Concentration (remaining soil)	Cleanup Level	Concentrations		Concentrations (as	
Campion		LIVV	LIVV	Litty	(remaining soii)		SLRBCs1 (Soil)		applicable)	
	Location	North Yard	North Yard	MA10				Portland Basin		TRUE OR Y FALSE OR N
Constituent of Interest	Note	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)		l .	mg/Kg (ppm)		l.	
Volatile Organic Constituents										
Benzene	C, V				<0.03 (ND)	NE	0.023		0.023	(Y)
Bromodichloromethane	c, v				<0.05 (ND)	NE	0.002		0.002	(Y)
Bromoform	c, v				<0.05 (ND)	NE	0.046		0.046	(Y)
Bromomethane	nc, v				<0.5 (ND)	NE	0.083		0.083	(Y)
Carbon tetrachloride	C, V				<0.05 (ND)	NE	0.013		0.013	(Y)
Chlorobenzene	nc, v				<0.05 (ND)	NE	5.8		2.4	N
Chlorodibromomethane (dibromochloromethane)	c, v				<0.05 (ND)	NE	0.0024		0.0024	(Y)
Chloroethane (ethyl chloride)	nc, v				<0.5 (ND)	NE	310		310	N
Chloroform	c, v				<0.05 (ND)	NE	0.0034		0.0034	(Y)
Chloromethane	nc, v				<0.5 (ND)	NE	2.2		2.2	N
1,2-Dichlorobenzene	nc, v				0.13	NE	36		0.92	N
1,4-Dichlorobenzene	C, V	_			<0.05 (ND)	NE	0.057		0.057	N
1,1-Dichloroethane	c, v				<0.05 (ND)	NE	0.044		0.044	(Y)
1,1-Dichloroethene	nc, v				<0.05 (ND)	NE	6.7		6.7	N
cis-1,2-Dichloroethene	nc, v		-		<0.05 (ND)	NE	0.63		0.63	N
trans-1,2-Dichloroethene	nc. v				<0.05 (ND)	NE	7.0		7	N
Dichloromethane	C, V				11 lc	NE	0.14		0.14	LC
EDB (1,2-dibromoethane)	C, V				<0.05 (ND)	NE	0.00012		0.00012	(Y)
EDC (1,2-dichloroethane)	C, V				<0.05 (ND)	NE	0.0028		0.0028	(Y)
Ethylbenzene	c, v	_			<0.05 (ND)	NE	0.22		0.22	N
MTBE (methyl t-butyl ether)	C, V	_			<0.05 (ND)	NE	0.11		0.11	N
Naphthalene	C, V				0.16	NE	0.077		0.077	Y
iso-Propylbenzene (cumene)	nc, v				<0.05 (ND)	NE	96		96	N
Tetrachloroethene (PCE)	C, V				13	NE	0.46		0.18	Y
Toluene	nc, v				<0.05 (ND)	NE NE	83		23	N
1.1.1-Trichloroethane	nc, v				<0.05 (ND)	NE NE	190		190	N
1,1,2-Trichloroethane	C, V				<0.05 (ND)	NE	0.0063		0.0063	(Y)
Trichloroethene	NA. v				0.05 (ND)	NE	0.013		0.013	(1) Y
Trichlorofluoromethane (Freon 11)	nc, v				<0.5 (ND)	NE NE	61		52	N
1,2,4-Trimethylbenzene	nc, v				0.091	NE	10		10	N
1,3,5-Trimethylbenzene	nc, v				0.058	NE NE	11		11	N
Vinyl chloride	C, V				<0.05 (ND)	NE	0.00057		0.00057	(Y)
Xylenes	nc, v				<0.05 (ND)	NE	23		1.4	N N
Metals	, .				(140)					
Arsenic	c, nv	5.91	2.65	2.02	6.92	NE	0.43	8.8	8.8	BKG
Barium	nc. nv	93.2	158	74.7	158	NE NE	15000	790	790	N N
Cadmium	nc, nv	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	NE	78	0.63	0.63	N
Chromium (III)	nc, nv	22.1	19	5.42	32.8	NE NE	120000	76	76	N
Lead	NA, nv	5.91	8.62	2.72	32.8 54.3	NE NE	30	28	28	Y
Mercury	nc, nv	<1 (ND)	<1 (ND)	<1 (ND)		NE NE	23	0.23	0.23	N
Wichouty	110, 110	<1 (ND)	<1 (ND)	CT (ND)	<1 (ND)	NE NE	390	0.23	0.23	IN

	Location ID	B10	B11	B12						
	Sample ID	B10-9-SWI	B11-5-SWI	B12-9-SWI				Background Concentrations		Exceeds ODEQs Screening-Level
	Date Sampled	2/16/2023	2/16/2023	2/16/2023			ODEQs Screening-	(Regional Default)	Clean Fill Screening Levels or Background Concentrations (as applicable)	SLRBCs (Soil) and/or Soil Matrix Cleanup
	Depth Sampled (feet)	9	5	9	Maximum Soil Concentration	Soil Matrix	Level Risk-Based			Level
	Sampled By	ENW	ENW	ENW	(remaining soil)	Cleanup Level	Concentrations SLRBCs ¹ (Soil)			
	Location	North Yard	North Yard	MA10			SERBOS (SUII)	Portland Basin	аррікавіе)	TRUE OR Y FALSE OR N
Constituent of Interest	Note	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)			mg/Kg (ppm)	ı	I.	
Semivolatile Organic Constituents										
Polychlorinated biphenyls (Total PCBs)	C, V				0.51	NE	0.23		0.23	Y
Polycyclic Aromatic Hydrocarbons										
Acenaphthene	nc, v				0.25	NE	770		0.25	N
Anthracene	nc, v				0.18	NE	8200		6.8	N
Benz[a]anthracene	C, V				0.088	NE	1.1		0.73	N
Benzo[a]pyrene (BaP equivalents)	c, nv				0.16	NE	0.11		0.11	Y
Benzo[b]fluoranthene	c, nv				0.18	NE	1.1		1.1	N
Benzo[k]fluoranthene	c, nv				<0.05 (ND)	NE	11		11	N
Chrysene	c, nv				0.12	NE	110		3.1	N
Dibenz[a,h]anthracene	c, nv				<0.05 (ND)	NE	0.11		0.11	N
Fluoranthene	nc, nv				0.16	NE	2400		10	N
Fluorene	nc, v				0.43	NE	770		3.7	N
Indeno[1,2,3-cd]pyrene	c, nv				0.14	NE	1.1		1.1	N
Pyrene	nc, v				0.23	NE	1800		10	N
Total Petroleum Hydrocarbons		•				•				•
Generic Gasoline (GRO)	nc, v	<20 (NP)	<20 (NP)	<20 (NP)	<20 (NP)	80	31		520	N
Generic Diesel / Heating Oil (DRO)	nc, v	<50 (NP)	<50 (NP)	<50 (NP)	2000 x	500	1100		90	Y
Generic Mineral Insulating Oil (RRO)	nc, nv	<250 (NP)	<250 (NP)	<250 (NP)	11000	200	2800		140,000	Υ

mg/Kg = milligram per kilogram or parts per million (ppm).

<# (ND) = not detected at or above the laboratory method reporting limit</p>

NE = not established.

NP = not present at or above the laboratory method reporting limit shown (HCID analysis).

- = not analyzed or not applicable.

c = carcinogenic nc = noncarcinogenic

nv = nonvolatile

GRO = gasoline-range organics.

DRO = diesel-range organics.

RRO = residual-range organics.

Shaded concentrations exceed screening level risk-based concentrations and background concentrations, as applicable

¹ Lowest Risk-Based Concentration for soil (screening level assumes residential use, from ODEQ RBCs dated May 2018).

(Y) indicates analyte not detected, but detection limit is above screening concentration.

j = The result is below method reporting limits. The value reported is an estimate.

x = the pattern of peaks is not indicative of the fuel standard used for quantitation.

Ic = The presence of the compound indicated is likely due to laboratory contamination.

BKG = constituent exceeded its SLRBC; however, was not detected above default backgound concentrations in soil

Note, B(a)P equivelents is calcuculated using Toxicity Equivelent Factors for all carcinogenic PAHs, per ODEQ guidance.

			Г	1		T	T	T				1		T I	
Lo	cation ID	B04	B05	B06	B07	B08	B09	B10	B11	B12					
Si	ample ID	B04-GW-12.5	B05-GW-12.5	B06-GW-15	B07-GW-15	B08-GW-13	B09-GW-14.5	B10-GW-14.5	B11-GW-15	B12-GW-230216		ODEQs		Exceeds Background	COPC?
Date	Sampled	2/16/23	2/16/23	2/16/23	2/16/23	2/16/23	2/16/23	2/16/23	2/16/23	2/16/23	Maximum	Screening-level	Background	Concentrations	00.0.
Depth Samp	led (feet)	12.5	12.5	15	15	13	14.5	14.5	15	15	Ground Water Concentration	Risk-Based	Concentrations	(metals)?	
Sar	npled By	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	Concentiation	Concentrations	(metals)		
	Location	South of Suspected UST	MA13: Former ASTs	MA11: Filled Septic	West Yard	North Yard	North Yard	North Yard	North Yard	North Yard		(SLRBCs) 1		TRUE OR Y FALSE OR N	TRUE OR Y FALSE OR N
Constituent of Interest	Note	μg/L (ppb)	μg/L (ppb)	μg/L (ppb)	μg/L (ppb)	μg/L (ppb)	μg/L (ppb)	μg/L (ppb)	μg/L (ppb)	μg/L (ppb)		μg/L (ppb)			
Volatile Organic Constituents															
Benzene	c, v	<0.35 (ND)	<0.35 (ND)	<0.35 (ND)	<0.35 (ND)	<0.35 (ND)	<0.35 (ND)	<0.35 (ND)	<0.35 (ND)	<0.35 (ND)	<0.35 (ND)	0.46	NE	N	N
Bromodichloromethane	c, v	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)	0.13	NE	N	(Y)
Bromoform	C, V	<5 (ND)	<5 (ND)	<5 (ND)	<5 (ND)	<5 (ND)	<5 (ND)	<5 (ND)	<5 (ND)	<5 (ND)	<5 (ND)	3.3	NE	N	(Y)
Bromomethane	nc, v	<5 (ND)	<5 (ND)	<5 (ND)	<5 (ND)	<5 (ND)	<5 (ND)	<5 (ND)	<5 (ND)	<5 (ND)	<5 (ND)	7.5	NE	N	N
Carbon tetrachloride	C, V	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)	0.46	NE	N	(Y)
Chlorobenzene	nc, v	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	77	NE	N	N
Chlorodibromomethane (dibromochloromethane)	C, V	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)	0.17	NE	N	(Y)
Chloroethane (ethyl chloride)	nc, v	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	21000	NE	N	N
Chloroform	c, v	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	1.1	1.0	1.0	<1 (ND)	1.1	0.22	NE	N	Y
Chloromethane	nc, v	<10 (ND)	<10 (ND)	<10 (ND)	<10 (ND)	<10 (ND)	<10 (ND)	<10 (ND)	<10 (ND)	<10 (ND)	<10 (ND)	190	NE	N	N
1,2-Dichlorobenzene	nc, v	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	300	NE	N	N
1,4-Dichlorobenzene	C, V	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	0.48	NE	N	(Y)
1,1-Dichloroethane	C, V	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	2.8	NE	N	N
1,1-Dichloroethene	nc, v	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	280	NE	N	N
cis-1,2-Dichloroethene	nc, v	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	36	NE	N	N
trans-1,2-Dichloroethene	nc, v	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	360	NE	N	N
Dichloromethane	C, V	<5 (ND)	<5 (ND)	<5 (ND)	<5 (ND)	<5 (ND)	<5 (ND)	<5 (ND)	<5 (ND)	<5 (ND)	<5 (ND)	11	NE	N	N
EDB (1,2-dibromoethane)	C, V	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	0.0075	NE	N	(Y)
EDC (1,2-dichloroethane)	C, V	<0.2 (ND)	<0.2 (ND)	<0.2 (ND)	<0.2 (ND)	<0.2 (ND)	<0.2 (ND)	<0.2 (ND)	<0.2 (ND)	<0.2 (ND)	<0.2 (ND)	0.17	NE	N	(Y)
Ethylbenzene	c, v	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	1.5	NE	N	N
MTBE (methyl t-butyl ether)	c, v	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	14	NE	N	N
Naphthalene	c, v	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	1.1	1.1	0.17	NE	N	Y
iso-Propylbenzene (cumene)	nc, v	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	440	NE	N	N
Tetrachloroethene (PCE)	C, V	2.3	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	1.2	<1 (ND)	<1 (ND)	2.3	12	NE	N	N
Toluene	nc, v	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	1100	NE	N	N
1,1,1-Trichloroethane	nc, v	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	8000	NE	N	N
1,1,2-Trichloroethane	C, V	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)	0.28	NE	N	(Y)
Trichloroethene	NA, v	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)	0.49	NE	N	(Y)
Trichlorofluoromethane (Freon 11)	nc, v	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	1100	NE	N	N
1,2,4-Trimethylbenzene	nc, v	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	1.3	1.3	54	NE	N	N
1,3,5-Trimethylbenzene	nc, v	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	59	NE	N	N
Vinyl chloride	C, V	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	0.021	<0.05 (ND)	0.027	NE	N	(Y)
Xylenes	nc, v	<3 (ND)	<3 (ND)	<3 (ND)	<3 (ND)	<3 (ND)	<3 (ND)	<3 (ND)	<3 (ND)	2.1	2.1	190	NE	N	N
Metals										,					
Arsenic	c, nv	<5 (ND)	<5 (ND)	<5 (ND)	<5 (ND)	<5 (ND)	<5 (ND)	<5 (ND)	<1 (ND)	<5 (ND)	<5 (ND)	0.052	2	Y	(Y)
Barium	nc, nv	28.0	10.9	9.13	60.6	49.2	1870	20.3	13.9	21.4	1870	4000	NE	N	N
Cadmium	nc, nv	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	1.44	<1 (ND)	<1 (ND)	<1 (ND)	1.44	20	1	Y	N
Chromium (III)	nc, nv	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	32.2	<1 (ND)	<1 (ND)	<1 (ND)	32.2	30000	1	Y	N
Lead	NA, nv	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	8.81	<1 (ND)	<1 (ND)	<1 (ND)	8.81	15	13.3	N	N
Mercury	nc, nv	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<5 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<5 (ND)	6	0.1	(Y)	N
Silver	nc, nv	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<5 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<5 (ND)	100	1	(Y)	N

	Location ID	B04	B05	B06	B07	B08	B09	B10	B11	B12		Ι		1	
	Sample ID	B04-GW-12.5	B05-GW-12.5	B06-GW-15	B07-GW-15	B08-GW-13	B09-GW-14.5	B10-GW-14.5	B11-GW-15	B12-GW-230216		ODEQs		Exceeds Background	COPC?
	Date Sampled	2/16/23	2/16/23	2/16/23	2/16/23	2/16/23	2/16/23	2/16/23	2/16/23	2/16/23	Maximum Ground Water	Screening-level	Background	Concentrations	
	Depth Sampled (feet)	12.5	12.5	15	15	13	14.5	14.5	15	15	Concentration	Risk-Based	Concentrations	(metals)?	
	Sampled By	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	0011001111011011	Concentrations	(metals)		
	Location	South of Suspected UST	MA13: Former ASTs	MA11: Filled Septic	West Yard	North Yard	North Yard	North Yard	North Yard	North Yard		(SLRBCs) ¹		TRUE OR Y FALSE OR N	TRUE OR Y FALSE OR N
Constituent of Interest	Note	μg/L (ppb)	μg/L (ppb)	μg/L (ppb)	μg/L (ppb)	μg/L (ppb)	μg/L (ppb)	μg/L (ppb)	μg/L (ppb)	μg/L (ppb)		μg/L (ppb)			
Semivolatile Organic Constituents															
Polychlorinated biphenyls (Total PCBs)	C, V	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	0.006	NE	N	(Y)
Polycyclic Aromatic Hydrocarbons															
Acenaphthene	nc, v			<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	0.051	0.051	510	NE	N	N
Anthracene	nc, v			<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	>S	NE	N	N
Benz[a]anthracene	C, V			<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	0.03	NE	N	(Y)
Benzo[a]pyrene (BaP equivalents)	c, nv			<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	0.025	NE	N	(Y)
Benzo[b]fluoranthene	c, nv			<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	0.25	NE	N	N
Benzo[k]fluoranthene	c, nv			<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	2.5	NE	N	N
Chrysene	c, nv			<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	>S	NE	N	N
Dibenz[a,h]anthracene	c, nv			<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	0.025	NE	N	(Y)
Fluoranthene	nc, nv			<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	>\$	NE	N	N
Fluorene	nc, v			<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	0.32	0.32	280	NE	N	N
Indeno[1,2,3-cd]pyrene	c, nv			<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	>S	NE	N	N
Pyrene	nc, v			<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	<0.04 (ND)	>\$	NE	N	N
Total Petroleum Hydrocarbons															
Generic Gasoline (GRO)	nc, v	<100 (ND)	<100 (ND)	<100 (ND)	<100 (ND)	<100 (ND)	<100 (ND)	<100 (ND)	<100 (ND)	120	120	110	NE	N	Y
Generic Diesel / Heating Oil (DRO)	nc, v	<50 (ND)	<50 (ND)	890 x	1300 x	340 x	420 x	310 x	1300 x	1100 x	1300 x	100	NE	N	Y
Generic Mineral Insulating Oil (RRO)	nc, nv	<250 (ND)	<250 (ND)	<250 (ND)	<250 (ND)	<250 (ND)	<250 (ND)	<250 (ND)	<250 (ND)	6800	6800	300	NE	N	Y

ug/L = micrograms per Liter or parts per billion (ppb).

<# (ND) = not detected at or above the laboratory method reporting limit</p> shown.

NE = not established.

NP = not present at or above the laboratory method reporting limit shown (HCID analysis).

¹ Lowest Risk-Based Concentration for ground water (screening level assumes residential use, from ODEQ RBCs dated May 2018).

— = not analyzed or not applicable.

c = carcinogenic

nc = noncarcinogenic

v = volatile nv = nonvolatile

GRO = gasoline-range organics.

DRO = diesel-range organics.
RRO = residual-range organics.

BKG = constituent exceeded its SLRBC; however, was not detected above default backgound concentrations in soil

Bolded concentrations exceed screening level risk-based concentrations and background concentrations, as applicable.

¹ Lowest Risk-Based Concentration for ground water (screening level).

(Y) indicates analyte not detected, but detection limit is above screening concentration.

x = the pattern of peaks is not indicative of the fuel standard used for quantitation.

		I	ı	T	I			ı	T		
	Sample ID		SUB02-230215	SUB03-230215	SUB04-230215	SG01-230215-5	SG02-230215-5				Constituent of
	Date Sampled	2/15/23	2/15/23	2/15/23	2/15/23	2/15/23	2/15/23	Maximum Soil-	ODEQs		Concern (COC)
	Depth Sampled (feet)	sub-slab	sub-slab	sub-slab	sub-slab	5	5	Gas	Screening-level	EPA Residential	
	Sampled By	ENW	ENW	ENW	ENW	ENW	ENW	Concentration	RBCs (Soil Gas)	VISL ²	l
	Location	Below building slab	Below building slab	Below building slab	Below building slab	East side of building	East side of building		·		TRUE OR Y FALSE OR N
Constituent of Interest	Note	μg/m3	μg/m3	μg/m3	μg/m3	μg/m3	μg/m3		μg/m ³	I.	
Volatile Organic Constituents	•										
Acetone	C,V	828.86	781.86	250.96	89.32	24.91	2.6 J	828.86	NE	NE	N
Benzene	C, V	3.13	3.62	2.17	1.24 J	1.78 J	1.14 J	3.62	72	12.00	N
Bromodichloromethane	C, V	<2.26 (ND)	<2.26 (ND)	<2.26 (ND)	15	2.53	N				
Bromoform	c, v	<2.31 (ND)	<2.31 (ND)	<2.31 (ND)	510	85.1	N				
Bromomethane	nc, v	<3.26 (ND)	<3.26 (ND)	<3.26 (ND)	1000	174	N				
Carbon tetrachloride	C, V	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	94	15.6	N				
Chlorobenzene	nc, v	<3.5 (ND)	<3.5 (ND)	<3.5 (ND)	10000	1740	N				
Chlorodibromomethane (dibromochloromethane)	C, V	<2.84 (ND)	<2.84 (ND)	<2.84 (ND)	21		N				
Chloroethane (ethyl chloride)	nc, v	<2.21 (ND)	<2.21 (ND)	<2.21 (ND)	2100000	139000	N				
Chloroform	C, V	50.95	5.41	<3.88 (ND)	<3.88 (ND)	<3.88 (ND)	<3.88 (ND)	50.95	24	4.07	Y
Chloromethane	nc, v	<1.74 (ND)	<1.74 (ND)	<1.74 (ND)	19000	3130	N				
1,2-Dichlorobenzene	nc, v	<5.02 (ND)	<5.02 (ND)	<5.02 (ND)	42,000	6,950	N				
1,4-Dichlorobenzene	C, V	<3.47 (ND)	<3.47 (ND)	<3.47 (ND)	51	9	N				
1,1-Dichloroethane	C, V	1.31 J	<3.37 (ND)	<3.37 (ND)	<3.37 (ND)	<3.37 (ND)	<3.37 (ND)	1.31 J	350	58.5	N
1,1-Dichloroethene	nc, v	<3.28 (ND)	<3.28 (ND)	<3.28 (ND)	42000	6950	N				
cis-1,2-Dichloroethene	nc, v	252.71	4164.5	3.15 J	<3.56 (ND)	<3.56 (ND)	<3.56 (ND)	4164.5	>Pv	1390	VISL
trans-1,2-Dichloroethene	nc, v	11.09	11.26	<2.39 (ND)	<2.39 (ND)	<2.39 (ND)	<2.39 (ND)	11.26	>Pv	1390	N
Dichloromethane	C, V	<2.79 (ND)	<2.79 (ND)	<2.79 (ND)	20000	3380	N				
EDB (1,2-dibromoethane)	C, V	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	0.94	0.156	(Y)				
EDC (1,2-dichloroethane)	C, V	<3.08 (ND)	<3.08 (ND)	<3.08 (ND)	22	3.6	N				
Ethylbenzene	C, V	<3.83 (ND)	<3.83 (ND)	<3.83 (ND)	<3.83 (ND)	2.96 J	<3.83 (ND)	2.96 J	220	37.4	N
MTBE (methyl t-butyl ether)	c, v	<2.22 (ND)	<2.22 (ND)	<2.22 (ND)	1.41 J	<2.22 (ND)	2.22 J	2.22 J	2200	360	N
Naphthalene	c, v	<1.4 (ND)	1.67	26.01	8.82	4.77	1.61	26.01	17	2.75	Y
Tetrachloroethene (PCE)	c, v	21804.15	3561.1	26.53	339.78	726.65	8.02	21804.15	2200	360	Y
Toluene	nc, v	17.34	8.53	26.05	3.56	18.87	2.33 J	26.05	1000000	174000	N
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	nc, v	2.59 J	<6.12 (ND)	<6.12 (ND)	<6.12 (ND)	<6.12 (ND)	8.73	8.73	6300000	174000	N
1,1,1-Trichloroethane	nc, v	22.87	<4.04 (ND)	<4.04 (ND)	<4.04 (ND)	<4.04 (ND)	<4.04 (ND)	22.87	1000000	174000	N
1,1,2-Trichloroethane	C, V	<4.68 (ND)	<4.68 (ND)	<4.68 (ND)	35	5.85	N				
Trichloroethene	NA, v	3940.43	767.76	1.71 J	2.27 J	9.14	1.36 J	3940.43	95	15.9	Y
Trichlorofluoromethane (Freon 11)	nc, v	14.9	<4.73 (ND)	<4.73 (ND)	<4.73 (ND)	15.32	<4.73 (ND)	15.32	150000	0	N
1,2,4-Trimethylbenzene	nc, v	<4.17 (ND)	7.44	<4.17 (ND)	<4.17 (ND)	2.65 J	<4.17 (ND)	7.44	13000	2090	N
1,3,5-Trimethylbenzene	nc, v	<4.24 (ND)	3.62 J	<4.24 (ND)	<4.24 (ND)	<4.24 (ND)	<4.24 (ND)	3.62 J	13000	2090	N
Vinyl chloride	C, V	<2.15 (ND)	1.44 J	<2.15 (ND)	<2.15 (ND)	<2.15 (ND)	<2.15 (ND)	1.44 J	33	5.59	N
Xylenes	nc, v	2.48 J	4.74 J	2.16 J	2.18 J	8.56 J	3.31 J	8.56 J	21000	3480	N
Total Petroleum Hydrocarbons											
Generic Gasoline (GRO)	nc, v	2340.63	1765.63	460.55 J	795.32	609.03	569.73	2340.63	79000	13900	N
Leak Detection							Maximum Soil- Gas Concentration	Leak Scree	nining Level	Leak Suggested?	
2-Propanol		64.67	69.29	110.62	24.42	28.8	6.15	110.62	50	000	N
Notes:											

Notes: ND = not detected at or above laboratory method reporting limits.

= not detected at or above laboratory method report
 = not analyzed or not applicable.
 <= not detected above method reporting limit shown.

NE = not established.

ug/m³ = micrograms per cubic meter of air .
c = carcinogenic
nc = noncarcinogenic

v = volatile

nv = nonvolatile

GRO = gasoline-range organics. DRO = diesel-range organics.

RRO = residual-range organics. **Bolded** concentrations exceed screening level risk-based concentrations and reference concentrations, as applicable.

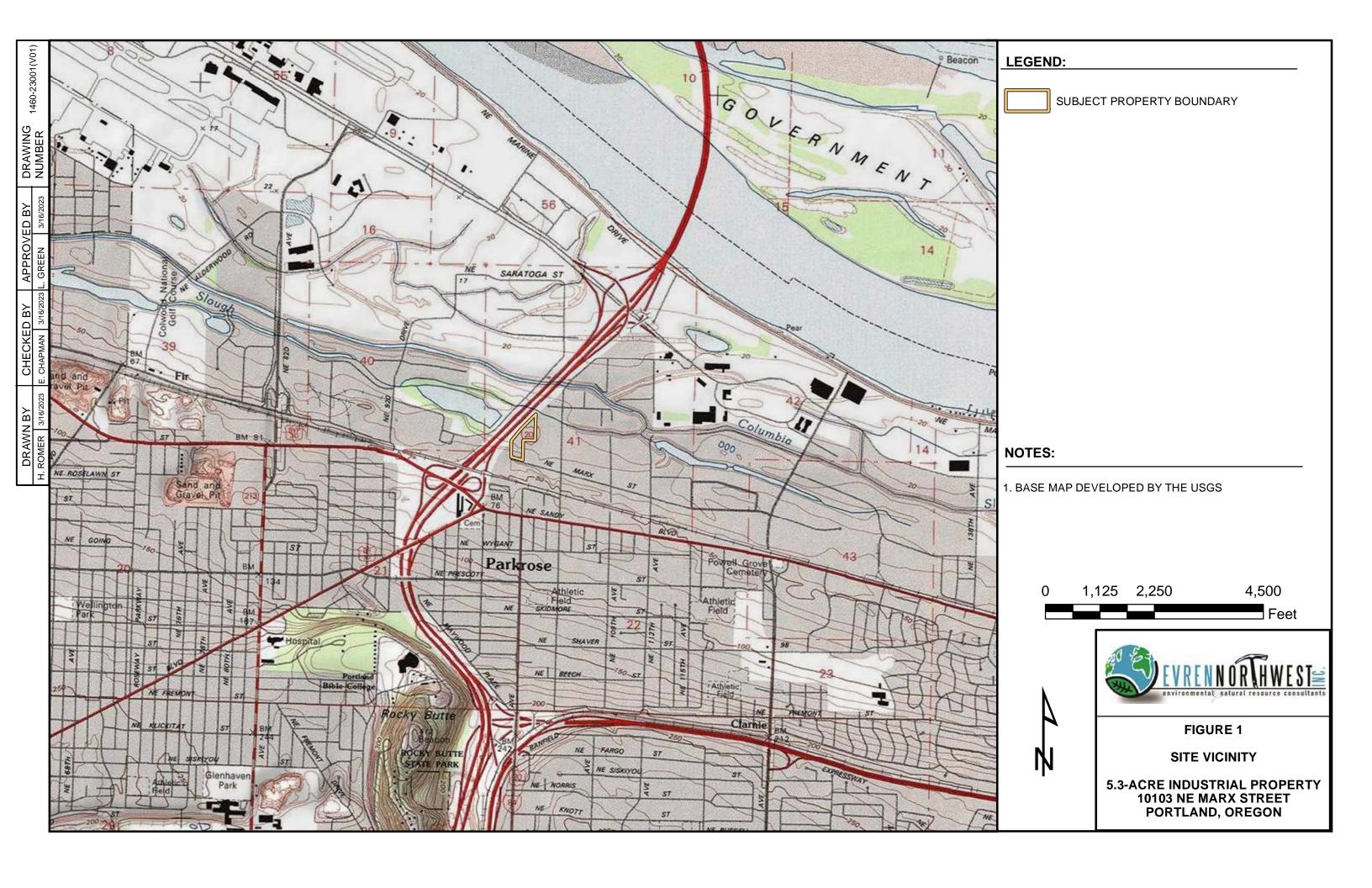
¹ Lowest Risk-Based Concentration for soil gas/sub-slab vapor (screening level).

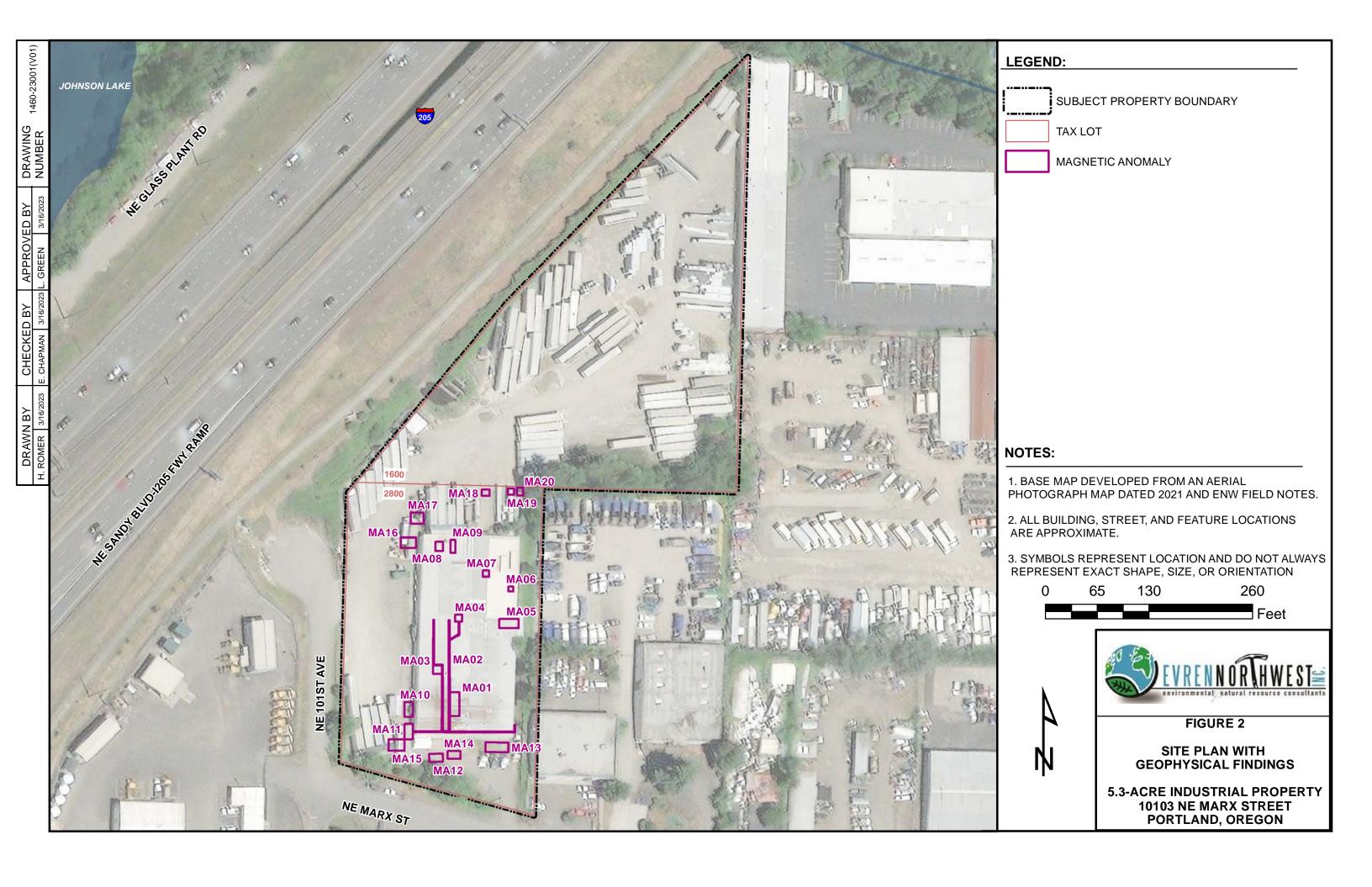
² EPA Vapor Intrusion Screening Level
(Y) indicates analyte not detected, but detection limit is above screening concentration.

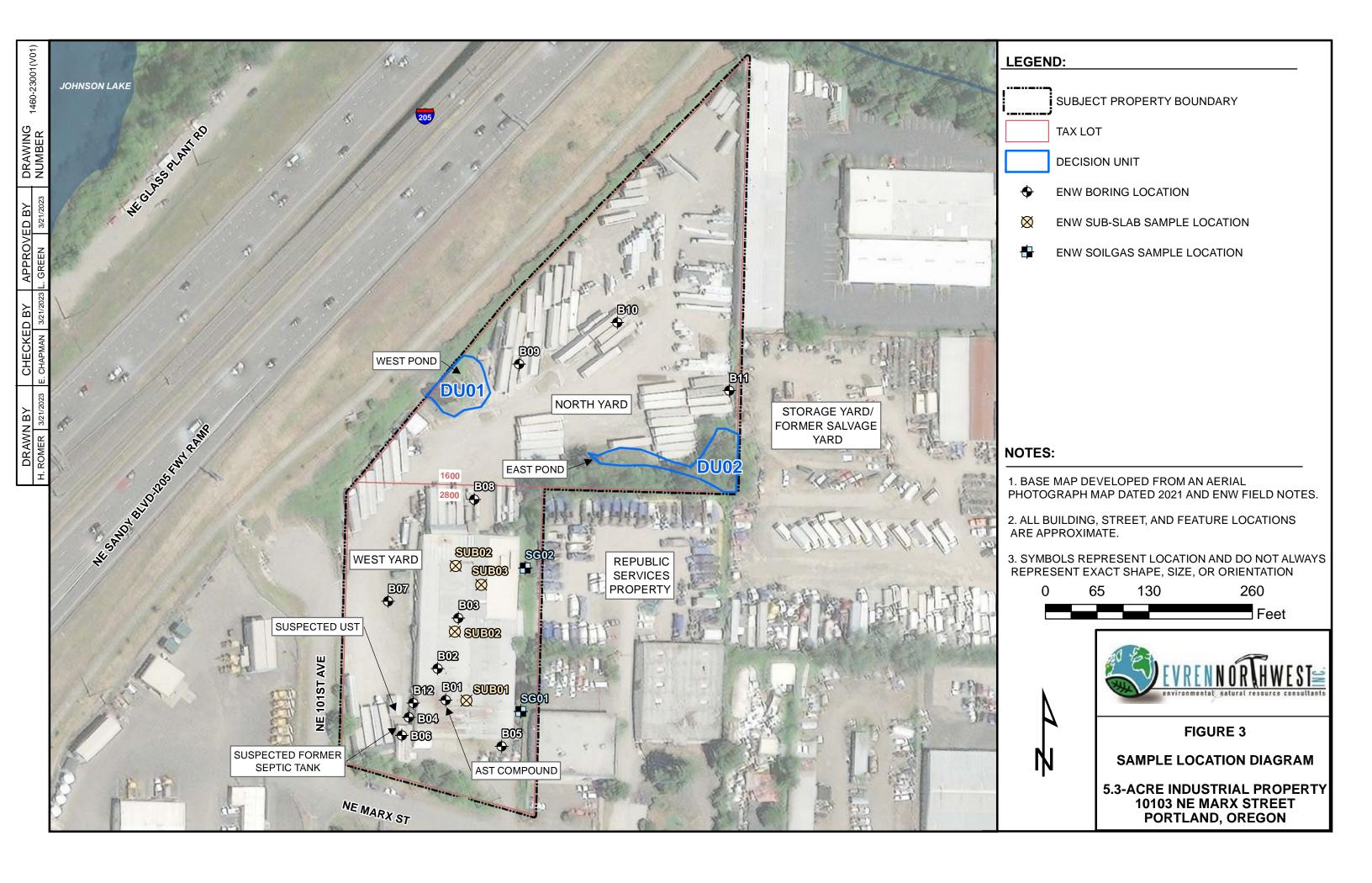
J = inidicates the internal standard associated with the analyte is out of control limits; the reported concentration is an estimate.

y = the pattern of peaks is not indicative of motor oil.

>Pv = indicates this constituent cannot present an unacceptable health risk by the vapor intrusion pathway







Appendix A Site Photographs



View of the geophysical survey using ground-penetrating radar.



View of the geophysical survey using electromagnetic scanner.



View of ISM sample collection within decision unit DU02 using a stainless-steel hand auger.



A slide hammer was utilized to set temporary soil gas sample probes.



10103 NE Marx St Portland, OR 97220

Site Photographs

Project No. 1460-23001-01 Appendix

Α



View of sub-slab vapor sampling using TO-15 equipment. Note the rags treated with isopropyl alcohol for leak detection.



View of advancing a temporary soil boring indoors using a stainless-steel hand auger.



View of direct-push (DPT) drill rig installing a temporary boring for the purpose of sampling soil and reconnaissance ground water.



View of reconnaissance ground water sampleing from temporary DPT boring.



10103 NE Marx St Portland, OR 97220

Site Photographs

Project No. 1460-23001-01 Appendix

Α

Appendix B

Soil Boring Logs

			Vest, Inc. PROJECT				PROJE	CT NO.		BORING NO.
DR	ILL I		7					460-2300	1-01	B01
SITE				BEGUN		COMPLET	ED	HOLE SIZI	E E	ANGLE FROM HORIZ.
	INATES	NI	E Marx St	02-14 DEPTH GROUND WATER	DATE SI	STA	4-23 TIC LEVE	FIRST		GROUND ELEVATION
DRILLE	R			CORE REC	OVERY (%	b) # SAI	MPLES	# CORE	BOXES	DEPTH TOP OF ROCK
DRILL	MAKE AND M	Evre	n Northwest	LOGGED B	٧٠		2			DEPTH BOTTOM OF HOLE
DIVILLIN	IAIL AID IV			LOGOLD B	1.	Tandan	Mamia			
		1 1	and Auger			Jordan	LE DATA			ВЕМАРИС.
DEPTH	STRATA ELEVATION/ DEPTH	GRAPHIC LOG	DESCRIPTION		SAMPLE			MW Const./	PID/OVM	REMARKS: NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
0 -			Concrete slab Brown loose medium sand, barely m cohesive, smells like diesel. Micace no gravel. End of boring.	oist, non- ous. No fines	B01-	1			19.6 22.8 8.1 3.0	
5 				-		- - -				
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			PROJECT				PROJE	CT NO.		BORING NO.
	ILL L	JOG	r				14	60-2300	1-01	B02
SITE				BEGUN		COMPLETE	D	HOLE SIZI	≣	ANGLE FROM HORIZ.
COORD		NI	E Marx St	02-14- DEPTH GROUND WATER CORE RECO	DATE SI		IC LEVEL		VATER BOXES	GROUND ELEVATION DEPTH TOP OF ROCK
		Evre	n Northwest							
DRILL M	IAKE AND M		and Auger	LOGGED BY	:	Jordan N	Aorris			DEPTH BOTTOM OF HOLE 5
	≥		iliu Augei				E DATA		1	REMARKS:
DEPTH	STRATA ELEVATION/ DEPTH	GRAPHIC LOG	DESCRIPTION		SAMPLE		CORE	MW Const./ Completion	PID/OVM	NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
0			Concrete slab	_						
5—			Brown loose sand, moist, non cohesi diesel, micaceous. End of boring.	ive, smells of - - - -	B02-	-			36.0 46.8 38.5 32.1 46.6	
			Like of borning.	- - -	-	-				
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DD			PROJECT				PROJE	CT NO.		BORING NO.
	ILL I	JUG	Г	\			14	60-2300	1-01	B03
SITE				BEGUN		COMPLETE		HOLE SIZI		ANGLE FROM HORIZ.
COORDI		NI	E Marx St	GROUND WATER	DATE SL		IC LEVEL		VATER	GROUND ELEVATION
DRILLER	?			CORE RECO	VERY (%) # SAM	PLES	# CORE	BOXES	DEPTH TOP OF ROCK
DRILL M	AKE AND M	Evrei	n Northwest	LOGGED BY:						DEPTH BOTTOM OF HOL
ZI KILL IVI	AIL AND IV		and Augus	LOGOLD B1.		Jordan N	1 annia			7
			and Auger				E DATA			REMARKS:
DEPTH	STRATA ELEVATION/ DEPTH	GRAPHIC LOG	DESCRIPTION		SAMPLE NO.		CORE	MW Const./ Completion	PID/OVM	NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
0			Slab							
5 —			Dark brown loose fine sand, no graw Moist, cohesionless, micaceous. Dar indicate impacts; no smell. Not muc response. 5% fines show up at 4'. Chunks of w fines fraction continues downbore, w	k color may _ h PID _	B03-	5			1.7 2.9 1.7 3.8 4.4 1.9	
			End of boring.		B03-	7			0.8	
10				_		L				
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			PROJECT					PROJEC	T NO.		BORING NO.
	ILL I	JUG	T					140	60-2300	1-01	B04
SITE				BEGUN		COMF	PLETED	ŀ	HOLE SIZE		ANGLE FROM HORIZ.
COORD		NE	E Marx St	02-15 DEPTH GROUND WATER	DATE SI	-		LEVEL	FIRST V	VATER	GROUND ELEVATION
DRILLEF	₹	-	NY d	CORE REC	OVERY (9	6) #	# SAMPI	LES	# CORE	BOXES	DEPTH TOP OF ROCK
DRILL M	IAKE AND M	IODEL	en Northwest	LOGGED B	Y :						DEPTH BOTTOM OF HOLE
		1 1	Auger and 7822DT				dan M			T	15
рертн	STRATA ELEVATION/ DEPTH	GRAPHICLOG	DESCRIPTION		SAMPLE		SAMPLE TYPE	CORE RECOVERY	MW Const./ Completion	PID/OVM	REMARKS: NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
0		XXX	Asphalt, then concrete	_							
- - -			Base gravelcoarse, rounded. Loose brown medium sand, moist, str micaceous, >5% gravel, no fines.		<u>-</u> - -	-				0.6	
5 —			At 3.5', silt appears, 30%. Silt is ligh Moisture increases to wet.	t brown.	_	-	_			0.0	
_			Silt disappears. Mica disappears. Qu 40% lithics. Occasional rounded 1/2	artz sand wit " to 1" gravel							
10			grains. Silt reappears. Bore becomes wet. SWI at 9'. Gray and brown coarse gravel with si	lt and sand,	B04-9-	SWI	_			0.0	
-			wet, no mica.		_	-					
15 —			Bore becomes saturated at 13.5.		_						
-			End of boring.		_	-					
-					_	-					
20 —				-			_				
-					_	-					
25 —				-	_	-	-				
-					_	-					
30				-			_				
-					_	-					
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DD.	II I I		PROJECT					PROJEC	CT NO.		BORING NO.
	ILL I	200		DECUR		001	יסו בדבב	14	60-2300	1-01	B05 ANGLE FROM HORIZ.
SITE				BEGUN			PLETED		HOLE SIZE		ANGLE FROM HORIZ.
	INATES	NI	E Marx St	02-16 DEPTH GROUND WATER	DATE SI	_		CLEVEL	2 1 FIRST V	VATER	GROUND ELEVATION
RILLEF	₹			CORE RECO	JVERY (%	6)	# SAMP	LES	# CORE	BOXES	DEPTH TOP OF ROCK
RILL M	AKE AND N	MODEL (Cascade	LOGGED BY	/ :						DEPTH BOTTOM OF HO
			7822 DT			Ιο	rdan M	orris			13
			022 D 1				SAMPLE				REMARKS:
DEPTH	STRATA ELEVATION/ DEPTH	GRAPHICLOG	DESCRIPTION		SAMPLE	NO.	SAMPLE TYPE	CORE	MW Const./ Completion	PID/OVM	NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
0			Asphalt and base gravel.	_							
-			Brown loose medium sand with little micaceous. Gray-brown looser medium sand , no gravel, moist, non-micaceous, quartz lithics.	fines, no		-	- - -	80		0.0	
5 —			1" lens of GW (fine rounded gravel v silt) at 6', dark brown, moist, no mica Interbedded lenses of silty fine brown (micaceous) at 8, 8,5, and 9'.	n. n loose sand	B05-9-	SWI	- - -	70		0.0	
10 —		35	Saturated lens of silty sand at 9'. SW Medium subangular gravel with sand	1 at 9. and some silt		-	_			0.0	
- - -			moist, no mica. Gravel becomes saturated at 12'. Drill refusal at 13'.		_	-	-	90		0.0	
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			PROJECT				PROJEC	CT NO.		BORING NO.
l	ILL I	JOG	-				14	60-2300	1-01	B06
SITE				BEGUN		COMPLETE	D	HOLE SIZE		ANGLE FROM HORIZ.
COORD		NE	E Marx St	02-16 DEPTH GROUND WATER CORE RECO	DATE SL		IC LEVEL	2 1 FIRST V	VATER	GROUND ELEVATION DEPTH TOP OF ROCK
		(Cascade							
DRILL M	IAKE AND M		1922 D.T.	LOGGED BY	/ :	T1 N	4			DEPTH BOTTOM OF HOLE
			822 DT		1	Jordan M SAMPLE				15 REMARKS:
DEPTH	STRATA ELEVATION/ DEPTH	GRAPHIC LOG	DESCRIPTION		SAMPLE		CORE	MW Const./ Completion	PID/OVM	NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
0			Asphalt and base gravel							
- - -			Gray-brown loose medium sand, som down to 3'. Moist, slight orange mot Mottling disappears by 4'.	ne silt present tling, no mica	B06-	1	80		1.3	
5 —				-	-	-	80		0.0	
10 —			Silt fraction (25%) returns at 9'. Bore SWI at 9'. Subangular medium gray gravel with moist, no mica.	_	_	SWI			0.0	
- - -			Bore becomes saturated at 14'.		- - -	- - -				
15 —		*6 5. *	End of boring.		_	-			0.0	
20 —					_	-				
					_	-				
25 —				_	- - -	-				
- -					- - -	-				
30 —				-	_	-				
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35 —				_	<u>-</u>	-				
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			PROJECT					PROJEC	T NO.		BORING NO.
	ILL I	JOG	र					140	50-2300	1-01	B07
SITE				BEGUN		COMPL	ETED	F	HOLE SIZE	-	ANGLE FROM HORIZ.
COORD		NI	E Marx St	02-16 DEPTH GROUND WATER CORE REC	DATE SL	5	2-16-2 STATIC SAMPL	LEVEL	2 1 FIRST V	VATER	GROUND ELEVATION DEPTH TOP OF ROCK
		(Cascade								
DRILL N	MAKE AND M	10DEL	7822 DT	LOGGED B	/ :	Iord	an Mo	orris			DEPTH BOTTOM OF HOLE 11.3
	7	1	7022 D I				MPLE I				REMARKS:
DEPTH	STRATA ELEVATION/ DEPTH	GRAPHICLOG	DESCRIPTION		SAMPLE NO.		SAMPLE TYPE	CORE RECOVERY	MW Const./ Completion	PID/OVM	NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
0		\times	Base gravel	91.							
_			Loose orange-brown medium sand, s micaceous. From 2-3' color becomes gray.	ome silt, mois	t; _ _			90			
_			At 4', dark brown silt becomes 40%.								
5—			Chunks of wood at 5'.	_	B07-	5 [0.0	
_					_	-					
_			SWI at 9'.		B07-9-S	wı.				0.0	
10 —				=					1	0.0	
		::::::::	Boring ends when rig runs into a big	rock.		+				0.6	
15 —				_		L					
						L					
_						L					
_						L					
20 —				_		L					
_					_	L					
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25 —				-	4	\vdash					
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			PROJECT				PRO	JECT NO.		BORING NO.
	ILL I	JUG	7					1460-230	01-01	B07'
SITE				BEGUN		COMPLE	TED	HOLE SI		ANGLE FROM HORIZ.
COORD		NE	E Marx St	02-16 DEPTH GROUND WATER CORE RECO	DATE SI	_ S1	16-23 FATIC LEVI	EL FIRST	1'4" WATER	GROUND ELEVATION DEPTH TOP OF ROCK
		(Cascade		,					
DRILL N	IAKE AND N	MODEL	Suscuce	LOGGED BY	′ :					DEPTH BOTTOM OF HOLE
		7	822 DT			Jorda	n Morris			15
	ž	9C				SAN	IPLE DATA			REMARKS:
DЕРТН	STRATA ELEVATION/ DEPTH	GRAPHIC LOG	DESCRIPTION		SAMPLE	SAMPLE	TYPE	KECOVERY MW Const./ Completion	PID/OVM	NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
0			Base gravel	_						
5—			Medium dense brown fine, rounded g sand and silt, barely moist, micaceous Loose gray medium sand, no gravel, mostly quartz. Medium loose fine brown sand with 2 micaceous.	s. no fines, mois	_	- - -	80)		
5 -			Lens of dark-brown, wood-rich mater	rial.		- - -	90)	0.0	
10 			Wet at 9'. Coarse gray, medium dense gravel w	ith sand and	_	<u> </u>	70)	0.0	
- 15 —			silt, moist, no mica.		_	<u>-</u>				
- - -			End of boring.		_	 - - -			0.0	
20 —				_	_	-				
_					_	<u>-</u>				
25 - - -				_		- - -				
30 —				_		-				
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DRII	L LO	PROJECT				PROJEC			BORING NO.
SITE			BEGUN	17	COMPLETED	140	50-2300	1-01	B08 ANGLE FROM HORIZ.
DIIE.							HOLE SIZE		ANGLE FROM HORIZ.
COORDINATE	ES	NE Marx St	02-16- DEPTH GROUND WATER CORE RECO	DATE SL		CLEVEL	2 1 FIRST V	VATER	GROUND ELEVATION DEPTH TOP OF ROCK
		Cascade							
ORILL MAKE	AND MODEL		LOGGED BY						DEPTH BOTTOM OF HOL
	- rh	7822 DT		Ι	Jordan M SAMPLE				13
	ELEVATION/ DEPTH GRAPHIC LOG	DESCRIP	TION	SAMPLE NO.	SAMPLE TYPE	CORE	MW Const./ Completion	PID/OVM	REMARKS: NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
0 - - - - 5		Base gravel Loose gray sand, medium, Medium dense fine gravel v Wet, weakly micaceous.	_	-	- - - -	50	-	0.0	
10—		Gray dense silt, moist, cohe At 8', becomes brown with Wet at 9'; SWI at 9'.	-	B08-9-S	- - - wi -	90	_	0.0	
15—		Coarse gray gravel with browet weakly micaceous. End of boring.	own silt, medium dense, - - -		-	80			
20 —			- - - -		-				
- - - -			- - -		- - -				
25 —			- - -		-				
30 —			- - - -		- - -				
35 —			- - - -		_ 				

DDI	ILL I		PROJECT					PROJEC	CT NO.		BORING NO.
SITE		JUG		DECLIN		0014	PLETED		60-2300		B09 ANGLE FROM HORIZ.
SIIE				BEGUN					HOLE SIZE		ANGLE FROM HORIZ.
COORDI		NE	E Marx St	GROUND WATER	DATE SL			LEVEL	2 1 FIRST V	VATER	GROUND ELEVATION
DRILLER	l			CORE RECO	OVERY (%)	# SAMPI	LES	# CORE	BOXES	DEPTH TOP OF ROCK
ORILL MA	AKE AND M	ODEL	Cascade	LOGGED BY	<u>':</u>						DEPTH BOTTOM OF HOL
			822 DT		•	Io	rdan M	orric			15
			022 D 1				SAMPLE				REMARKS:
рертн	STRATA ELEVATION/ DEPTH	GRAPHIC LOG	DESCRIPTION		SAMPLE NO.		SAMPLE TYPE	CORE	MW Const./ Completion	PID/OVM	NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
0			Base gravel								
-			Gray dense silt with fine sand, moist, plasticity, mottled light gray, micaced	cohesive, low ous.			-	90			
5—			Brown mottling appears.	-			_ -			0.0	
-			Bore becomes wet, color changes to be gray and orange mottling; SWI at 7'.	prown with	B09-7-8	SWI	-	100		0.0	
10 —				-	_	-	_			0.0	
- - -			Brown coarse medium-dense rounded sand and silt, saturated, gray mottling	l gravel with			-	100			
15		.0-19	End of boring.						-	0.0	
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DRILL	IOC	PROJECT .				PROJE			BORING NO.
	LUG		DECLIN		20MDI ET	14	60-2300	1-01	B10
SITE			BEGUN		COMPLETE		HOLE SIZE		ANGLE FROM HORIZ.
COORDINATES	NE	E Marx St	02-16 DEPTH GROUND WATER CORE RECO	DATE SL		TIC LEVEL	2 1 FIRST V	VATER	GROUND ELEVATION DEPTH TOP OF ROCK
	(Cascade							
ORILL MAKE AND	MODEL		LOGGED BY	/ :					DEPTH BOTTOM OF HOL
		822 DT			Jordan	Morris LE DATA		Ι	15
DEPTH STRATA ELEVATION/	GRAPHICLOG	DESCRIPTION		SAMPLE NO.			MW Const./ Completion	PID/OVM	REMARKS: NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
0		Base gravel	_						
-		Dense gray silt with fine sand, moist, gray mottling, micaceous.	, cohesive, dar	k - -	-	85			
5 - -		Orange mottling appears.	_	- - -	-	100		0.0	
10 —		Bore becomes wet; SWI at 9'.		B10-9-S	swi				
		Loose brown coarse subrounded gravand silt, saturated, no mica.	vel with sand	_	- -	100		0.0	
		Color changes to gray.		_	-				
15 —		End of boring.			-			0.0	
-					-				
20 —			-		-				
-				-	-				
25 —			_		-				
-					-				
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	ILL I		PROJECT					PROJEC	CT NO.		BORING NO.
SITE		LUG	•	BEGUN		COM	PLETED	14	60-2300 HOLE SIZE	1-01	B11 ANGLE FROM HORIZ.
SIIE											ANGLE FROM HORIZ.
COORD		NE	E Marx St	02-16 DEPTH GROUND WATER	DATE SL	-		LEVEL	2 1.	VATER	GROUND ELEVATION
DRILLER	3			CORE REC	OVERY (%	5)	# SAMPL	ES	# CORE	BOXES	DEPTH TOP OF ROCK
DRILL M	AKE AND N	MODEL (Cascade	LOGGED BY	/ :						DEPTH BOTTOM OF HOL
			822 DT			Ior	dan Mo	orrie			10
			022 D 1				SAMPLE 1				REMARKS:
DEPTH	STRATA ELEVATION/ DEPTH	GRAPHIC LOG	DESCRIPTION		SAMPLE		SAMPLE TYPE	CORE RECOVERY	MW Const./ Completion	PID/OVM	NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
0			Base gravel								
-			Gray dense silt with little fine sand, n light gray, micaceous. Lens of wood at 2'.	noist, mottled				70			
5 — -			Bore becomes saturated at 5'; SWI at	5'. –	B11-5-9	SWI -	<u> </u>			0.0	
-			Color changes to brown.					50			
10 —			End of boring.			\dashv			_	0.0	
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DR	ILL I	Ω	PROJECT					PROJEC			BORING NO.
SITE		200	'	BEGUN		COM	PLETED	14	60-2300 HOLE SIZE	1-01	B12 ANGLE FROM HORIZ.
COORD	INATES	NI	E Marx St	02-16 DEPTH GROUND WATER	5-23 DATE SL		02-16-2 STATIO	23 C LEVEL	2 1 FIRST V	/4" VATER	GROUND ELEVATION
DRILLEI	≺	,	C	CORE REC	OVERY (%)	# SAMPI	LES	# CORE	BOXES	DEPTH TOP OF ROCK
ORILL N	IAKE AND N	/ODEL	Cascade	LOGGED B	Y:						DEPTH BOTTOM OF HOL
		7	7822 DT				rdan M				15
DEPTH	STRATA ELEVATION/ DEPTH	GRAPHICLOG	DESCRIPTION		SAMPLE		SAMPLE TYPE TYPE	CORE PECOVERY PET	MW Const./ Completion	PID/OVM	REMARKS: NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
0	; III	DE STATE OF THE ST	Bore becomes wet. SWI at 9. Gray medium-loose coarse gravel w sand, much of larger grains broken mica. End of boring.	vith silt and	B12-9-S		/8	80 100 60	WM Co.	0.0	CONDITIONS.
35—				-	-	-	- - - -				

Appendix C

Field Sampling Data Sheets

GROUND WATER FIELD SAMPLING DATA FORM (FIELD) **EVREN Northwest** PROJECT NUMBER: PROJECT NAME: Date: 02-16-23 Event: Monitoring Well ID: Field Personnel: 13:25 Start Time: Cloudy, Weather Conditions: DTW (prior to purging): WELL PURGING INFORMATION Total Quantity Water DTW During Pumping Specific Dissolved ORP Turbidity Purged Temperature Conductivity pH Purging Rate Oxygen (S.U.), , ±0.1% (mV), , ±10 mV (NTU), , ±10% (gallons/liters) (mS/cm), ±3% (mg/L), ±10% (feet) (L/min) (degree C) Time 150ml/N rown GARINA Total Purged: 1100 COEE Tubing: Well casing (in. diam): Purge Pumping Rate (approx. L/m): Approx. Pump/Intake Depth: Decontamination method: Well Conversion Factors: 2" = 0.17 gal / foot; 5/8" = 0.02 gal/foot WELL CONDITION Recommended Well Repairs/Additional Notes: ☐ Lab QA/QC ☐ Equipment Blank ☐ None ☐ Duplicate QA/QC Sample: Dual Peristaltic Pump ☐ Bladder Pump Sampling Method: ☐ Grundfos Pump Valve SAMPLE INFORMATION Time Bottle Number Analytical Destination Sample ID Sampled Laboratory Preservative Size of bottles Parameters YOML Bn4-6W-12-5 13:42 HCL 500ml NOne 250ml 1-1ND3

Method of Transportation of samples: FedBx Courier

All samples were immediately placed into a cooler and packed with ice or "blue Ice"

Field Observations/Notes of sampling event:

When the sample is the sample into a cooler and packed with ice or "blue Ice"

Yes No

Signature of Field Personnel:

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Event:	Gw a	assessmen	t			Da	ate: 02	16/23	
Field Personnel	: 3	Dan 5	Sayko			N	Ionitoring Well ID		
Neather Condit	ions: (quercast	- 320			*****	Start Time	9.20)
DTW (prior to p	urging):	11.25'	595						
			VVE	LL PURGING	No. of the Control of the Control	Water			Total Quantity
	DTW During Purging	Pumping Rate	Temperature	Specific Conductivity	Dissolved Oxygen	pН	ORP	Turbidity	Purged
Time	(feet)	(L/min)	(degree C)	(mS/cm), ±3%	(mg/L), ±10%	(S.U.), , ±0.1%	(mV), , ±10 mV	(NTU), , ±10%	(gallons afters)
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Recommended									
Recommended	. ,							ı	
Recommended QA/QC Sample	: Dupl	licate	☐ Lab QA/QC	☐ Equipr	nent Blank	🔀 None			
QA/QC Sample						Dual			
		licate ndfos Pump	☐ Lab QA/QC ☐ Peristaltic Pu	mp 🔲 Bladde	er Pump	☐ Dual Valve		·	
QA/QC Sample Sampling Metho	od: 🗌 Grur	ndfos Pumip	Peristaltic Pu		er Pump FORMATION	☐ Dual Valve		CARONICO E ESTE O E	Time
QA/QC Sample Sampling Metho	od:	ndfos Pump Destinat	Peristaltic Pu	mp Bladde	er Pump FORMATION Bottle	☐ Dual Valve	Sam	ple ID	Time Sampled
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QA/QC Sample Sampling Methor Anal Paral	lytical meters	Destinat Laborato	Peristaltic Pu	mp ☐ Bladde SAMPLE INI eservative	FORMATION Bottle Size	☐ Dual Valve I Number			

Signature of Field Personnel:

Field Observations/Notes of sampling event:

EVREN Northwest

GROUND WATER FIELD SAMPLING DATA FORM (FIELD)

ROJECT NAME							ROJECT NUMBE ate:	₹:	
vent:	Gw								None of the Control o
ield Personnel	:	Jan Sa	yku				Monitoring Well I): Bob	
Weather Conditi	ions:	Survey	- 400 E	*****************************	·	*****	Start Time	9:5	9
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	DTW During Purging	Pumping Rate	Temperature	Specific Conductivity	Dissolved Oxygen	Water pH	ORP	Turbidity (NTU), , ±10%	Total Quantity Purged (gallons/liters)
Time	(feet)	(L/min)	(degree C)			July 51 d	(mV), , ±10 mV	(1410), 1 = 1070	(ganoriorinera)
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All samples we	re immediately p		r and packed with	ice or "blue Ice"		Yes Yes	□ No		
Field Observa	tions/Notes of s	ampling event:				, –			
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ield Personnel	Ţ	Dan Say	ω				Monitoring Well I		
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D I - 1	W-II DanalaniA da	ditional Notaci		VVELLC	אטוועאט	ned and the second second	- Colored Transport		
Recommended	Well Repairs/Add	altional ivotes:			******************************				

QA/QC Sample	: Dup	licate	Lab QA/QC	☐ Equi	pment Blank	None		1 1	****
			– ≺Peristaltic Ρι		der Pump	☐ Dual			
Sampling Metho	oa: 🔲 Grui	ndfos Pump 🗾				Valve	and the same of th		A DESCRIPTION OF THE PARTY OF T
		par en		SAMPLE II	VFORMATION	- Contract of the Contract of			T:
	ytical	Destination		reservative	Bottle Size	Number of bottles	San	nple ID	Time Sampled
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					0500	<u>' </u>			
Mother Jef T	sportation of sam	ples: FedEx	Courier		1				
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Signature of Fi	eld Personnel:	1	4						

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	DTW During	Pumping		Specific	Dissolved	Water			Total Quantity
	Purging	Rate	Temperature	Conductivity	Oxygen	pH	ORP	Turbidity	Purged (gallons/liters
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	n method: n Factors: 2" = 0.	17 gal / foot; 5/8	8" = 0.02 gal/foot		ONDITION			***************************************	9.5
ell Conversior	n Factors: 2" = 0.		5" = 0.02 gal/foot		ONDITION			***************************************	9.5
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ecommended	n Factors: 2" = 0. Well Repairs/Add	litional Notes:	3" = 0.02 gal/foot Lab QA/QC	WELL CO	1 ~	Approx. None		***************************************	7.5
ecommended A/QC Sample	Factors: 2" = 0. Well Repairs/Add Dupl	litional Notes:		WELL CO	ed fo	Approx		***************************************	7.5
Vell Conversion Recommended	Factors: 2" = 0. Well Repairs/Add Dupl	litional Notes:	Lab QA/QC	WELL CO Survey Equip Bladd	ed Coment Blank	Approx. None Dual		***************************************	7.5
Vell Conversion Recommended AVQC Sample Rampling Metho	Tactors: 2" = 0. Well Repairs/Add Dupl Grur ytical	litional Notes: icate idfos Pump	Lab QA/QC Peristaltic Pu	WELL CO	ment Blank er Pump FORMATION Bottle	Approx. None Dual Valve Number	Pump/Intake Dep	th:	7.5
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VREN NO ROJECT NAME	i:	1460-23	001-01		SAWIPLIN	P	ROJECT NUMBER		0-23 <u>e</u> 01
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			O WE	- Marchael Marchael Company	INFORMATI				T. 1.10
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Recommended	Well Repairs/Ad	ditional Notes:		Magazin	Swel	ined s	San 14	ANAN	
QA/QC Sample Sampling Metho			Lab QA/QC Peristaltic Pur		oment Blank der Pump	☐ None ☐ Dual Valve		1.3 - 1 - 1.	7
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	lytical	Destination			Bottle	Number	Can	nple ID	Time Sampled
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- CX	U065	473		Nene	life		2 0 (312115	> 17:5
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desolved	REHAB			4003	750 m	1 1			
All samples we	sportation of sam	aced into a cooler and	Courier packed with i	ce or "blue Ice"		☐ Yes	☐ No		
Field Observa	tions/Notes of s	ampling event:			1				
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			Water	in ver	ry fine	Guspe	nded in	vater	
Signature of F	ield Personnel:		errorment was a superior of the sec	NINO A THE STATE OF THE STATE O		71_71011010=010=0101=1001=1001=1001=1001		ACCOUNTS OF THE PARTY OF THE PARTY.	enter in the contract

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eather Condit	***********	overcas	<u> </u>		••••	Otari Time		, • 1 ×
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	DTW During	Pumping	Specific	Dissolved	Water			Total Quantity
	Purging		erature Conductivity	Oxygen	рН	ORP	Turbidity	Purged
.Time	(feet)		ree C) (mS/cm), ±3%	(mg/L), ±10%	(S.U.), ±0.1%	(mV), , ±10 mV	(NTU), , ±10%	(gallons/liters)
13:17		200 .	19ht bree	up tw	5.0			
13:20		et	1 very	time K	suspende	d solids		0.60
13:29		11	water a	vally &	2 Mens	Zame		2.40
13:31			hour cell	ecting	salide	(Amser	(121	2.8
			8		4			***************************************

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							Total Purge	dı.
Decontamination Vell Conversion		17 gal / foot; 5/8" = 0.02		NOITION	Approx.	Pump/Intake Dept	h: ^	12-60
Recommended	Well Repairs/Add	ditional Notes:			0	111		
			Gineered	tron	7.5	~ (4.5		
					r	1		
QA/QC Sample	e: 🔲 Dup	licate 🗌 La	b QA/QC	nent Blank	None			
Sampling Meth	od: 🖂 Grui	ndfos Pumip N Pe	ristaltic Pump 🔲 Bladde	er Pump	☐ Dual Valve			
			'	ORMATION	valve		***	
sampling Mean	The state of the s		SAMPLE IN	Bottle	Number			Time
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Ana	meters			1000		210-1	SW - 14.9	11.00
Ana	meters	7973		770-1		1/141.	_	17/14/
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ent: C	w assess	van						
eld Personnel:	Dan So	uku		CONTRACTOR		Monitoring Well ID:	BII	
eather Conditions:	Jartly	Glandy				Start Time:	13:	53
W (prior to purging):	2	o bas	. Dimoile	2 INTERDEGRATI	ON!	· · · · · · · · · · · · · · · · · · ·		
DTW Du	Iring Pumping	O WE	Specific	G INFORMATION Dissolved	Water	Section and account and a section of the section of		· Total Quantit
Purgir	ng Rate	Temperature	Conductivity	Oxygen	рН	ORP	Turbidity	Purged
Time (feet		(degree C)	(mS/cm), ±3%	(mg/L), ±10%	(S.U.), , ±0.1%	(mV), , ±10 mV ((NTU), , ±10%	(gallons/liters
1354 13:59	- Ne	Brown	~ 9 W	NO.		 		160
4:05		Couti	44201	Engine 4	n - 5	weer war	be	120
		Silfre	l mo.	J hota	ye x	free wi	7	
14:20		ask	CASCAC	le to	place	new ser	ren	***************************************
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16:20		,	Begin	collec	47 5	auple		1-7-4
10.20			Begin	collec	thy s	auple		-29
bing:	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Begur /m:-	collec		Well casing (in. diam)		2.4 Ac
ubing: urge Pumping Rate (appecontamination method:	prox. L/m):	E 200 ml	Jan-	collec		Well casing (in. diam) k. Pump/Intake Depth		
ubing: urge Pumping Rate (aprecontamination method: /ell Conversion Factors:	orox. L/m): 2" = 0.17 gal / foot; 5/8	E 200 ml	Jan-	ONDITION	Approx	k. Pump/Intake Depth		
ubing: urge Pumping Rate (apprecontamination method:	orox. L/m): 2" = 0.17 gal / foot; 5/8	E 200 ml	/m	10	Approx			
ubing: urge Pumping Rate (appecontamination method: /ell Conversion Factors:	orox. L/m): 2" = 0.17 gal / foot; 5/8 airs/Additional Notes:	2" = 0.02 gal/foot	MELL C	and R	Approx	k. Pump/Intake Depth		
ubing: urge Pumping Rate (appecontamination method: rell Conversion Factors: ecommended Well Repa	orox. L/m): 2" = 0.17 gal / foot; 5/8 airs/Additional Notes:		WELL C	ment Blank	Approx	k. Pump/Intake Depth		
ubing: urge Pumping Rate (applecontamination method: /ell Conversion Factors: ecommended Well Report	orox. L/m): 2" = 0.17 gal / foot; 5/8 airs/Additional Notes:	2" = 0.02 gal/foot	WELL C	and R	Approx	k. Pump/Intake Depth		
ubing: urge Pumping Rate (appecton and appecton and appecton and appecton and appecton ampling Method:	2" = 0.17 gal / foot; 5/8 airs/Additional Notes: Duplicate Grundfos Pump	7 00 ml 7 = 0.02 gal/foot Lab QA/QC Peristaltic Pu	WELL C	ment Blank der Pump	Approx Approx None Dual Valve	k. Pump/Intake Depth		PUC MA
ubing: urge Pumping Rate (appecontamination method: rell Conversion Factors: ecommended Well Representation of the commended with the commended wi	orox. L/m): 2" = 0.17 gal / foot; 5/8 airs/Additional Notes: Duplicate Grundfos Pump Destinat	2 00 ml 2 0 0 ml 3" = 0.02 gal/foot Lab QA/QC Peristaltic Pu	WELL C	oment Blank der Pump NFORMATION Bottle	Approx Approx None Dual Valve	k, Pump/Intake Depth	YDAN	Puc Wh
ubing: urge Pumping Rate (apprecontamination method: /ell Conversion Factors: ecommended Well Report A/QC Sample: ampling Method: Analytical Parameters	2" = 0.17 gal / foot; 5/8 airs/Additional Notes: Duplicate Grundfos Pump Destinat Laborat	2 00 ml 2 0 0 ml 3" = 0.02 gal/foot Lab QA/QC Peristaltic Pu	WELL C	ment Blank der Pump	Approx None Dual Valve Number of bottles	k, Pump/Intake Depth	YDAN	Puc Wh
ubing: urge Pumping Rate (apperent of the property of the prop	airs/Additional Notes: Duplicate Grundfos Pump Destinat Laborat	2 00 ml 2 0 0 ml 3" = 0.02 gal/foot Lab QA/QC Peristaltic Pu	WELL C WELL C GRANN Bladd SAMPLE IN Reservative	oment Blank der Pump NFORMATION Bottle Size	Approx Approx None Dual Valve	k, Pump/Intake Depth	YDAN	Time Sampled
ubing: urge Pumping Rate (apprecontamination method: /ell Conversion Factors: ecommended Well Repair A/QC Sample: ampling Method: Analytical Parameters	2" = 0.17 gal / foot; 5/8 airs/Additional Notes: Duplicate Grundfos Pump Destinat Laborat	2 00 ml 2 0 0 ml 3" = 0.02 gal/foot Lab QA/QC Peristaltic Pu	WELL C	oment Blank der Pump UFORMATION Bottle Size	Approx None Dual Valve Number of bottles	k, Pump/Intake Depth	YDAN	PUC BA
ubing: urge Pumping Rate (apperent of the property of the prop	airs/Additional Notes: Duplicate Grundfos Pump Destinat Laborat	2 00 ml 2 0 0 ml 3" = 0.02 gal/foot Lab QA/QC Peristaltic Pu	WELL CO WELL CO Equipmp Blade SAMPLE IN reservative	oment Blank der Pump NFORMATION Bottle Size Conception	Approx None Dual Valve Number of bottles	k, Pump/Intake Depth	YDAN	Time Sampled
abing: urge Pumping Rate (appression factors: ell Conversion Factors: ecommended Well Repaired A/QC Sample: ampling Method: Analytical Parameters A Jol	airs/Additional Notes: Duplicate Grundfos Pump Destinat Laborat	7 00 ml 3" = 0.02 gal/foot Lab QA/QC Peristaltic Pu lion ory Pr	WELL CO WELL CO Equipmp Blade SAMPLE IN reservative	oment Blank der Pump NFORMATION Bottle Size Conception	Approx None Dual Valve Number of bottles	k, Pump/Intake Depth	YDAN	Time Sample
abing: arge Pumping Rate (approximate properties) Analytical Parameters	airs/Additional Notes: Duplicate Grundfos Pump Destinat Laborat This Of samples: FedBa	Z vo r l g" = 0.02 gal/foot Lab QA/QC Peristaltic Pu cory Pr	WELL CO WELL CO MEDITION WELL CO MEDITION SAMPLE IN SERVATIVE HUU WORE WOR	oment Blank der Pump NFORMATION Bottle Size Conception	Approx None Dual Valve Number of bottles	k, Pump/Intake Depth	YDAN	Time Sampled
abing: arge Pumping Rate (appecentamination method: ell Conversion Factors: ecommended Well Repaired ampling Method: Analytical Parameters	Duplicate Grundfos Pump Destinat Laborat Of samples: FedEs ately placed into a coole	Z vo r l g" = 0.02 gal/foot Lab QA/QC Peristaltic Pu cory Pr	WELL CO WELL CO MEDITION WELL CO MEDITION SAMPLE IN SERVATIVE HUU WORE WOR	oment Blank der Pump NFORMATION Bottle Size Conception	Approx Approx None Dual Valve Number of bottles	Samp	YDAN	Time Sampled
ubing: urge Pumping Rate (appecantamination method: rell Conversion Factors: recommended Well Repair A/QC Sample: ampling Method: Analytical Parameters Analytical Parameters	Duplicate Grundfos Pump Destinat Laborat Of samples: FedEs ately placed into a coole	Z vo r l g" = 0.02 gal/foot Lab QA/QC Peristaltic Pu cory Pr	WELL CO WELL CO MEDITION WELL CO MEDITION SAMPLE IN SERVATIVE HUU WORE WOR	oment Blank der Pump NFORMATION Bottle Size Conception	Approx Approx None Dual Valve Number of bottles	Samp	YDAN	Time Sampled
abing: arge Pumping Rate (apprecentamination method: ell Conversion Factors: ecommended Well Reprecentation Analytical Parameters Analytical Parameters Analytical Parameters Analytical Parameters	Duplicate Grundfos Pump Destinat Laborat Of samples: FedEs ately placed into a coole	Z vo r l g" = 0.02 gal/foot Lab QA/QC Peristaltic Pu cory Pr	WELL CO WELL CO MEDITION WELL CO MEDITION SAMPLE IN SERVATIVE HUU WORE WOR	oment Blank der Pump NFORMATION Bottle Size Conception	Approx Approx None Dual Valve Number of bottles	Samp	YDAN	Time Sample
ubing: urge Pumping Rate (appecantamination method: rell Conversion Factors: recommended Well Reparameters A/QC Sample: ampling Method: Parameters Analytical	Duplicate Grundfos Pump Destinat Laborat Of samples: FedEs ately placed into a coole	Z vo r l g" = 0.02 gal/foot Lab QA/QC Peristaltic Pu cory Pr	WELL CO WELL CO MEDITION WELL CO MEDITION SAMPLE IN SERVATIVE HUU WORE	oment Blank der Pump NFORMATION Bottle Size Conception	Approx Approx None Dual Valve Number of bottles	Samp	YDAN	Time Sampled

EVREN No PROJECT NAM Event:		GRO	TAW DNUC	ER FIELD	SAMPLIN	Р	PROJECT NUMBER Date: 2-16	R: 1460-2	13001-01
Field Personne Weather Condit	itions:	ıy F.					Monitoring Well II Start Time		
DTW (prior to p	ourging):	7,67	W	ELL PURGING	SINFORMAT	TON			
	DTW During	Pumping		Specific	Dissolved	Water	·	Т	Total Quantity
Time	Purging (feet)	Rate (L/min)	Temperature (degree C)	Conductivity (mS/cm), ±3%	Oxygen (mg/L), ±10%	pH (S.U.), , ±0.1%	ORP (mV), , ±10 mV	Turbidity (NTU), , ±10%	Purged (gallons/liters)
14:07	7.69	150ML	TUTOID	101017W 1	Valater .	-		-	
14.01		150ml				,		1	,
						-			
								-	
						ļ		-	
	ļ	-		<u> </u>				-	
7,000	0.000					The way of the same of the sam		Total Purged	A.
Purge Pumping	Rate (approx. L/i	/m): \\\\50\r	N			V Annrov	Vell casing (in. diam	m): 2,	
Decontamination Well Conversion		0.17 gal / foot; 5/8"	" = 0.02 gal/foot			Арргол.	. Pump/Intake Dept	n: />	
			Alex G	WELL CO	ONDITION				
Recommended	Well Repairs/Add	ditional Notes:							
QA/QC Sample: Sampling Metho		The second of th	Lab QA/QC		oment Blank der Pump	☐ None ☐ Dual Valve			
		2 0			FORMATION				
	lytical meters	Destination Laborator		reservative	Bottle Size	Number of bottles	Sam	nple ID	Time Sampled
		0	}	HU.	yone	9	B12-6M	-730216	19:07
		(V)	·/······	1003	250m	L 3		***************************************	
		Y	IN IN	NOUF	8		İ		
		7						***************************************	
All samples were	sportation of same re immediately plations/Notes of sa	laced into a cooler	Courier r and packed with ic	ce or "blue Ice"		Yes	□ No		
Fleid Obsorr	Ollandous S	Impining Cross					,		
+				<u></u>					
, 		A							
		1/1 -		//	\mathcal{H}				

EVREN NO	RTHWES	ST.	8	,1	3		2				Portland	Box 14488 d, Oregon, 97 1 Fax: 503-	
PROJECT NA	ME/NUMBI	ER: 1460	-23001-	01						SAMPLE LOC	ATION: SUB	1	
SITE ADDRES	Caption 1	27								- 1	DUP ID:		0
WIND FI	ROM: N	NE E	SE S	sw	W N	W LIC	SHT ME	DIUM	HEA	AVY		Temp., C	Humidity (%
WEAT	HER: SU	NNY CLO	OUDY F	RAIN ?									
			(40							50			
SOIL GAS SE	TUP DATA			/#		110				81			
Container Type	Date	Volume (L)		ole Depth (ft.)	San	mple ID	Summa ID	Flow C	ontroler	Flow Meter ID	Purge Vessel ID		
Tedlar/Summa	02/18/23	0.5L, 1L, 8L, 5L	L, 6L 5	08	50801-230	215	327	YES	NO	2625	850		
		1 -10-10-10-10-10-10-10-10-10-10-10-10-10-	1.0					U			15		
OIL GAS SA	MPLING D	ATA											
Action	Start Time	Finish Time	Init Pressue (mmHg)	Final Pre	40 / 2 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1								
Leak-Test	9:35	9:40	28	28									
Purge	10:09	10:11	26	27				0;	27				
Sample	10:12	10:41	20	5							1		
Date	Time	Depth (ft)	PID (ppm)	O ₂ (%)	9	CO (ppm)	CO ₂ (%)						
02-15-23	10:43	508	20.1										
1	10:44	1	20.1					1					
	10:45		19.2			-							
	10:46		18.8						101	1			
A	10:47	A	18.6					CHY	Borl				
			19	14,7	- 1	0	45	0-0	78.5		0		
CON	TAINER TYPE	TYPICAL ANAL	YSIS ALLOWED	PER BOTTLE	TYPE (Circ	le applicable or	write non-standard ar	nalysis below)	NA -			
Type		BTEX/TPH (TO-3)	PESTICIDE/PCSs	(TO-4) ALDEH	YDES/KEYTO	NES (TO-5) PES	STICIDES/PCBs (TO-10)	ALDEHYDE	S/KEYTONE	S (TO-11)			
Analysis Allowed per Bottle Type		NON-METHANE OF	RGANIC CMPDS (TO	0-12) PAHs/SV	/OCs (TO-13)	VOCs (TO-15)							
er Bo		TPH as Diesel (TO-1	7)			4							7
₹ ₫		SPECIFIC CHEMICA	AL ANALYSIS [8.1			1		
NOTES:													
SAMPLER:										A		7	

EVREN NO	RTHWES	ST	(f w)			2-				Box 14488 d, Oregon, 97 1 Fax: 503-	
PROJECT NA	ME/NUMB	ER: 1460 -	23001-01					SAMPLE LOC	ATION: 5080	2-230215	
SITE ADDRES	S:								DUP ID:		
WIND FF		NE E		W W	NW L	IGHT ME	EDIUM HE	AVY		Temp., C	Humidity (%
SOIL GAS SE	TUP DATA	·				> 5	-				
Container Type	Date	Volume (L)	Sample D (ft.)	epth	Sample ID	Summa ID	Flow Controler	Flow Meter ID	Purge Vessel ID		
Tedlar/Summa	02/15/23	0.5L, 1L, 3L, 5L,	6L SUB	SUBOT	1-230215	387	YES NO	2671	850		
Action	Start Time	ATA Finish Time	Init Pressue F (mmHg)	inal Pressue (mmHg)		3					
Leak-Test Purge Sample	9:34 0:15 10:19	9:39 10:14 10:50	30 26 30	30 29							
SOIL GAS SC	REENING			8		0 ,	7				
Date	Time	Depth (ft)	PID (ppm)	O ₂ (%)	CO (ppm)	CO ₂ (%)					
02-19-23	60:56	SUB	2.1				11				
	6157		1.9		}	, .					
	10150		1.8								
1	10:59		1.7				0.1417	Bal			
Y	W:00	A	1.7	10 -	0	3.1	CVVI	€.4			
	INED TYPE	Tropical Allahy		16.5							
Type	AINER TYPE					or write non-standard a) ALDEHYDES/KEYTONE	S (TO.11)			
A Allo			SANIC CMPDS (TO-12)				, LOCATION TONE	-1.5-10			
Analysis All		TPH as Diesel (TO-17)									
A g		SPECIFIC CHEMICAL	ANALYSIS [1		
NOTES:								3:			
		F 9								1	
AMPLER:	tan	1 /	alMIS					1	.Da /	10.	

PO Box 14488 Portland, Oregon, 97293 503452-766 Fax: 503.452-766 Fax: 503.452-7						0/11	III LINO DA	III OIILLI				
SITE ADDRESS: WIND FROM: WEATHER: SUNNY CLOUDY RAIN ? SOIL GAS SETUP DATA Container Type Date (L) Sample Depth (L) Sample ID Summa ID Flow Controler Flow Meter ID Purge Vessel ID SOIL GAS SAMPLING DATA Action Start Time Finish Time Finish Time (mmHg) Finish Time (mmHg) Finish Time Finish Time Finish Time Finish Time (mmHg) Finish Time Fini	EVREN NO	RTHWES	ST.		H	r" 30		75 T 12		Portland	d, Oregon, 97	
WIND FROM: N NE E SE S SW N NW LIGHT MEDIUM HEAVY Temp., C Humid WEATHER: SUNNY CLOUDY RAIN ? SOIL GAS SETUP DATA Container Type Date Volume (L) Sample Depth (L) Sample ID Summa ID Flow Controler Flow Meter ID Purge Vessel ID Tediensuma Other Dost, 1(1, 31, 51, 61, 70 B) 50803-750215 357 (FS) NO 2527 050 SOIL GAS SAMPLING DATA Action Start Time Finish Time Init Pressue (mmilej) (mmilej) SOIL GAS SCREENING Date Time Depth (ff) PID O2 CO CO2 Sample 101-12 12 14 15 15 14 15 15 15 15 15 15 15 15 15 15 15 15 15	PROJECT NA	ME/NUMB	ER:						SAMPLE LO	CATION: 908	303	N
SOIL GAS SETUP DATA Container Type Date Volume (I.) Sample Depth (II.) Sample ID Summa ID Flow Controler Flow Meter ID Purge Vessel ID Teder/Summa OTAIF TO 0.5L, 1L (3L 5L, 6L 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5	SITE ADDRES	SS:	(4)							DUP ID:		
SOIL GAS SETUP DATA Container Type Date	WIND FI	ROM: N	NE E	SE S	sw w	NW LI	IGHT ME	DIUM HE	AVY		Temp., C	Humidity (%)
Container Type Date Volume Sample Depth Sample ID Summa ID Flow Controler Flow Meter ID Purge Vessel ID TediatriSumma) 07/15/13 0.5L, 1L, 3L/5L, 6L 5/8 5/863-736715 357 KES NO 2577 857 SOIL GAS SAMPLING DATA Action Start Time Finish Time Init Pressue (mmHg) (mmHg) Leak-Test 7/50 16/20 7/30 7/3 Purge Minish 10/124 24 26 36 Sample 10/124 24 26 Sample 10/125 12/146 7/30 7/30 7/4 SOIL GAS SCREENING Date Time Depth (ft) PID O2 CO CO2 (ppm) (%) (ppm) (%) 12/16 0/1 12/15 0/1 12/16 0/1 12/16 0/1 12/16 0/1 12/17 0/1 12/16 0/1 12/17 0/1 12/1	WEAT	HER: SU	NNY CLC	UDY F	AIN ?			- 100				
Container Type Date Volume Sample Depth Sample ID Summa ID Flow Controler Flow Meter ID Purge Vessel ID Tedfar/Summa) 07/15/173 0.5L, 1L, 3L/5L, 6L 5/8 5/863-73-0215 357 KES NO 2527 850 SOIL GAS SAMPLING DATA Action Start Time Finish Time Init Pressue (mmHg) (mmHg) Leak-Test 1/50 16/20 370 370 370 Purge Minist 10/124 29 20 390 370 SOIL GAS SCREENING Date Time Depth (ft) PID O2 CO CO2 (ppm) (%) Date Time Depth (ft) QPID O2 (ppm) (%) 12/16 0-1 12/17 0-1 12											(a)	
Container type Date (L) (ft.) Salripie ID Sullinia ID Flow Controller Flow Weller ID ID	SOIL GAS SE	TUP DATA										
SOIL GAS SAMPLING DATA Action Start Time Finish Time (mmHg) Final Pressue (mmHg) Leak-Test 7:60 (1:00) 72 72 Purge Wind 10:14 74 24 Sample 10:14 70:14 70 70 7 SOIL GAS SCREENING Date Time Depth (ft) (ppm) (%) (ppm) (%) O2-15-25 12:16 0:1 T117 0:1 T117 0:1 T117 0:1 T119 0:1	Container Type	Date				Sample ID	Summa ID	Flow Controler	Flow Meter ID			
SOIL GAS SAMPLING DATA Action Start Time Finish Time (mmHg) Final Pressue (mmHg) Leak-Test 7:60 (1:00) 72 72 Purge Wind 10:14 74 24 Sample 10:14 70:14 70 70 7 SOIL GAS SCREENING Date Time Depth (ft) (ppm) (%) (ppm) (%) O2-15-25 12:16 0:1 T117 0:1 T117 0:1 T117 0:1 T119 0:1	Tedlar/Summa	02/15/13	0.5L, 1L, 3L, 5I	L, 6L 5	IB SUBOS	-230215	359	YES NO	2527	850		
Action Start Time Finish Time Init Pressue (mmHg) Leak-Test 1360 10:00 330 330 Purge 10:124 24 26 Sample 10:12 12:40 370 7 SOIL GAS SCREENING Date Time Depth (ft) PID O2 (ppm) (%) (ppm) (%) 07-15-73 12:15 5 08 0.2 12:16 0.1 12:17 0.1 12:18		1										· 9
Action Start Time Finish Time Init Pressue (mmHg) Final Pressue (mmHg) Leak-Test 1360 1000 336 336 Purge MMMM 10124 24 26 Sample 1012 124 14 26 Sample 1012 124 15 26 Soil Gas screening Date Time Depth (ft) PID O2 (ppm) (%) (ppm) (%) 1216 01	SOIL GAS SA	MPLING D	ATA									
Purge Sample 10:14 19 16 Sample 10:14 19 16 Soil Gas screening Date Time Depth (ft) PID O2 CO CO2 (ppm) (%) (ppm) (%) 12:16	Action	Start Time	Finish Time									
Sample 10:14 12:14 730 7 SOIL GAS SCREENING Date Time Depth (ft) PID O2 CO CO2 (ppm) (%) (ppm) (%) 12:15 5 0 0.2 12:16 0.1 12:17 0.1 12:19 0.1 12:1	Leak-Test	9:50	10:00	170	>30	1						
Sample 10:15 12:16 750 7 SOIL GAS SCREENING Date Time Depth (ft) PID O2 CO CO2 (ppm) (%) (ppm) (%) (ppm) (%) 12:16	Purge	MANAN	10:24	29								
Date Time Depth (ft) PID O2 CO CO2 (ppm) (%) 12:16 0:1 12:16 0:1 12:19 0:1	Sample		12:46	730	7							
Date Time Depth (ft) (ppm) (%) (ppm) (%) 02-15-23 12:16 0.1 12:16 0.1 12:19 0.1 12:1				PID	0,	co	CO ₂	1				
12:16 0:1	Date	Time	Depth (ft)									
12:16 0:1	22-15-23	12:15	SUB	0.2								
T217 O CHu Bal O T219												
1219 1219				1								
CONTAINER TYPE TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below) BTEX.TPH (TO-3) PESTICIDE/PCSs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)				-				14	A 1 1			
CONTAINER TYPE TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below) BTEX/TPH (TO-3) PESTICIDE/PCSs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)	V		V	0.1	51			CHy !	Bal			
BTEX/TPH (TO-3) PESTICIDE/PCSs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)					17.3	0	1 3.4	1 0.0 1	19.3			
BTEX/TPH (TO-3) PESTICIDE/PCSs (TO-4) ALDEHYDES/KEYTONES (TO-10) ALDEHYDES/KEYTONES (TO-11) NON-METHANE ORGANIC CMPDs (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15) TPH as Diesel (TO-17)	CONT	AINER TYPE	TYPICAL ANAL	YSIS ALLOWED	PER BOTTLE TYPE	(Circle applicable o	r write non-standard ar	nalysis below)			5	
V 9 1 NON-METHANE ORGANIC CMPDs (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15) TPH as Diesel (TO-17)	Type	8	BTEX/TPH (TO-3)	PESTICIDE/PCSs	TO-4) ALDEHYDES/KE	EYTONES (TO-5) PE	ESTICIDES/PCBs (TO-10)	ALDEHYDES/KEYTONE	S (TO-11)	4 -		
TPH as Diesel (TO-17)	is Al		NON-METHANE OF	RGANIC CMPDS (TO	-12) PAHs/SVOCs (TO	-13) VOCs (TO-15)	<u> </u>	F.				
5 6	er Bo	1	TPH as Diesel (TO-1	7)								
SPECIFIC CHEMICAL ANALYSIS []	A g		SPECIFIC CHEMIC	AL ANALYSIS [1		
NOTES:	NOTES:											5.
										-		
	D.1										7 -	

(PRINTED NAME)

EVREN NO	RTHWES	ST							Portlan	D Box 14488 d, Oregon, 97 S1 Fax: 503-		
PROJECT NA	ME/NUMB	ER: 1460	- 7301-0					SAMPL	E LOCATION: 508	04		
SITE ADDRES	SS:								DUP ID:			
WIND F	ROM: N	NE E	SE S	sw w	NW L	IGHT ME	DIUM	HEAVY	÷ i	Temp., C	Humidity (%)	
WEAT	HER: SU	NNY CLO	DUDY F	RAIN ?								
SOIL GAS SE	TUP DATA											
Container Type Date		Volume Sar		le Depth (ft.)	Sample ID	Summa ID	Flow Contr	roler Flow M	Purge Vessel ID			
Tedlar/Summa	02/19723	0.5L, 1L,3L,5L	., 6L 5	UB SUBOY	-230215	312	YES	NO 20	27 800			
	**			1-00						10 H		
SOIL GAS SA	MPLING D	ATA										
Action	Start Time	Finish Time	Init Pressue (mmHg)	Final Pressue (mmHg)								
Leak-Test	9:41	7:46	27	27								
Purge	10:30	10:32	25	24								
Sample	10:33	11:00	27	5								
SOIL GAS SC		Donth (ft)	PID	O ₂	СО	CO ₂]					
Date	Time	Depth (ft)	(ppm)	(%)	(ppm)	(%)						
02-15-23	U:49	4 uB	0-2			y 8	1	*1				
1	11=50	1	0.2									
	11:51		01	1.]					
	11:52		0.2									
A	11:43	W	0.2		o de		CHY	Bal				
				1 2.2	0	4.3	00	93.5				
CONT	AINER TYPE	TYPICAL ANAL	YSIS ALLOWED	PER BOTTLE TYPE	(Circle applicable o	r write non-standard an	alysis below)	- 3				
a Type		BTEX/TPH (TO-3)										
Sottle		NON-METHANE ORGANIC CMPDS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)										
Analysis Alle		TPH as Diesel (TO-17)										
		SPECIFIC CHEMICAL ANALYSIS [
NOTES:	Tan	1. 1.	MM 7-9	a "					111			

(PRINTED NAME)

EVREN NO	ORTHWES	ST								Box 14488 d, Oregon, 97 1 Fax: 503-	
PROJECT N	AME/NUMB	ER: 1460	-23001-	01				SAMPLE LOC	ATION: 560	1	
SITE ADDRE	SS:				2				DUP ID:		
WIND F	ROM: N	NE E	SE S	SW V	V NW LIC	SHT ME	EDIUM HE	AVY		Temp., C	Humidity (%)
WEA.	THER: SU	NNY) CLO	UDY F	RAIN ?						=======================================	
SOIL GAS S	ETUP DATA						N'				
Container Type Date		Volume (L)		le Depth (ft.)	Sample ID	Summa ID	Flow Controler	Flow Meter ID	Purge Vessel ID		
Tedlar/Summa	02/15/23	0.5L, 1L 3L, 5L	L, 6L	5	5G01-230215-5	372	YES NO	1639	850		
						14					
SOIL GAS S	AMPLING D	ATA									
Action	Start Time	Finish Time	Init Pressue (mmHg)	Final Pressi (mmHg)	ue						
Leak-Test 9:50		9:59	30	30							
Purge	10:21	11:25	26	24							
Sample	11:26	Piol	30	5							
SOIL GAS S	CREENING						- a				
Date	Time	Depth (ft)	PID (ppm)	O ₂ (%)	(ppm)	CO ₂ (%)					
02-15-23	12:15	5	0.2								
	12:16		011								
	12:17		0.1								
	12:18	1	0.1					. 1			
7	12:19	7	0.1		Flactuates		6 100	igl +			
				1 17.4	(betyring o	1,7	10.0 181	20			
COV	TAINER TYPE	TYPICAL ANAL	YSIS ALLOWED	PER BOTTLE TY	PE (Circle applicable or	write non-standard a	nalysis below)		A.		
Typ		BTEX/TPH (TO-3)	PESTICIDE/PCSs	(TO-4) ALDEHYDE	S/KEYTONES (TO-5) PES	STICIDES/PCBs (TO-10)) ALDEHYDES/KEYTONE	S (TO-11)			
sis A sottle		NON-METHANE OF	RGANIC CMPDS (TO	PAHs/SVOCs	s (TO-13) VOCs (TO-15)		F.		×		
Analysis Allowed per Bottle Type		TPH as Diesel (TO-1	7)								
₹ "	Ψ.	SPECIFIC CHEMICA	AL ANALYSIS [1		166
NOTES:			1						, ,	1	
AMPLER:	torde	m An	am19				W 2 2	1.1	1/2 //	n	

(PRINTED NAME)

EVREN NORTHWEST Portlan										O Box 14488 nd, Oregon, 97293 61 Fax: 503-452-7669		
PROJECT NA	ME/NUMB	ER: 1460	-23001-	01					SAMPLE LOC	ATION: 560	2.	
SITE ADDRES	SS:					100				DUP ID:		
WIND FI	ROM: N	NE E	W NW LI	NW LIGHT MEDIUM HEAVY					Temp., C	Humidity (%)		
WEAT	HER: SU	NNY CLC	DUDY F	AIN ?	>	2						
			•				1		•			
SOIL GAS SE	TUP DATA										10	
Container Type	Date	Volume (L)		le Depth (ft.)	Sample ID	Summa ID	Flow Controler		Flow Meter ID	Purge Vessel ID	Å ×	
Tedlar/Summa	02/15/23	0.5L, 1L, 3L)5I	L, 6L	3	6602-230215-3	320	YES	NO	2643	890		
									37	=		
SOIL GAS SA	MPLING D	ATA	5									
Action	Start Time	Finish Time	Init Pressue (mmHg)	Final Pro								
Leak-Test	11:50	12:02	28	28								
Purge	12:10	12:16	23	21								
Sample	12:17	12:43	AMMAN 28	4								
SOIL GAS SO	Time	Depth (ft)	PID (ppm)	O ₂		CO ₂ (%)						
02-15-23	13:01	3	0.2		2 200 02							
UL 17	13:02	Ĩ	0.1				-					
	13:03		0.1				1					
	15:04		0.1						VIX			
1	13:05	4	0-(CHY	1 Bo	rl			
				16.	1 0	2.4	0.0	80.			4	
CONT	TAINER TYPE	TYPICAL ANAL	YSIS ALLOWED	THE RESERVE OF THE PARTY OF THE	TYPE (Circle applicable o	r write non-standard ar	nalysis below)		7.			
Analysis Allowed per Bottle Type		BTEX/TPH (TO-3) PESTICIDE/PCSs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)										
s All		NON-METHANE ORGANIC CMPDS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)										
alysi er Bo		TPH as Diesel (TO-17)										
A a		SPECIFIC CHEMIC	AL ANALYSIS [1		
NOTES:						,				,		_
SAMPLER:	tord (PRINTED NAM	1	emis				X	51	(SIGNAT	nem /	M	

Appendix D

Laboratory Analytical Reports

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Vineta Mills, M.S. Eric Young, B.S. 5500 4th Avenue South Seattle, WA 98108 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

February 27, 2023

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

Dear Mr Green:

Included are the results from the testing of material submitted on February 18, 2023 from the 1460-23001-01, F&BI 302273 project. There are 16 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures

c: Neil Woller, Paul Trone, Evan Bruggeman

ENW0227R.DOC

FRIEDMAN & BRUYA, INC. ENVIRONMENTAL CHEMISTS

ENVIRONMENTAL CHEWIS

CASE NARRATIVE

This case narrative encompasses samples received on February 18, 2023 by Friedman & Bruya, Inc. from the Evren Northwest 1460-23001-01, F&BI 302273 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u> <u>Evren Northwest</u>

302273 -01 B11-GW-15

Chromium in the 6020B matrix spike and matrix spike duplicate failed the acceptance criteria. The laboratory control sample passed the acceptance criteria, therefore the results were due to matrix effect.

Several 8260D compounds failed below the acceptance criteria in the matrix spike sample. The laboratory control samples met the acceptance criteria, therefore the data were likely due to sample matrix effect.

All other quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/27/23 Date Received: 02/18/23

Project: 1460-23001-01, F&BI 302273

Date Extracted: 02/23/23 Date Analyzed: 02/23/23

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Gasoline Range	Surrogate (% Recovery) (Limit 50-150)
B11-GW-15 302273-01	<100	104
Method Blank 03-459 MB	<100	103

ENVIRONMENTAL CHEMISTS

Date of Report: 02/27/23 Date Received: 02/18/23

Project: 1460-23001-01, F&BI 302273

Date Extracted: 02/21/23 Date Analyzed: 02/21/23

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND RESIDUAL RANGE USING METHOD NWTPH-Dx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	$rac{ ext{Diesel Range}}{ ext{(C}_{10} ext{-C}_{25} ext{)}}$	Residual Range (C ₂₅ -C ₃₆)	Surrogate (% Recovery) (Limit 50-150)
B11-GW-15 302273-01	1,300 x	<250	114
Method Blank 03-451 MB	<50	<250	114

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID: B11-GW-15 Client: Evren Northwest

Date Received: 02/18/23 Project: 1460-23001-01, F&BI 302273

Units: ug/L (ppb) Operator: SP

 $\begin{array}{c} & Concentration \\ Analyte: & ug/L \ (ppb) \end{array}$

Arsenic <1 Barium 13.9 Cadmium <1 Chromium <1 Lead <1 Mercury <1 Selenium <1 Silver <1

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID: Method Blank Client: Evren Northwest

Date Received: NA Project: 1460-23001-01, F&BI 302273

Date Extracted: 02/21/23 Lab ID: I3-118 mb
Date Analyzed: 02/21/23 Data File: I3-118 mb.148
Matrix: Water Instrument: ICPMS2

Units: ug/L (ppb) Operator: SP

 $\begin{array}{c} & Concentration \\ Analyte: & ug/L \ (ppb) \end{array}$

Arsenic <1 Barium <1 Cadmium <1 Chromium <1 Lead <1 <1 Mercury Selenium <1 Silver <1

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	B11-GW-15	Client:	Evren Northwest
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Project: 1460-23001-01, F&BI 302273 Date Received: 02/18/23 Lab ID: Date Extracted: 302273-0102/20/23 Date Analyzed: 02/20/23 Data File: 022024.DMatrix: Water Instrument: GCMS13 Units: ug/L (ppb) Operator: lm

		Lower	Opper
Surrogates:	% Recovery:	Limit:	Limit:
1,2-Dichloroethane-d4	92	71	132
Toluene-d8	93	68	139
4-Bromofluorobenzene	100	62	136

	Concentration		Concentration
Compounds:	ug/L (ppb)	Compounds:	ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	< 0.02	Dibromochloromethane	< 0.5
Bromomethane	<5	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	< 50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<5	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<5
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	1.0	1,1,2,2-Tetrachloroethane	< 0.2
2-Butanone (MEK)	<20	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	< 0.2	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	< 0.5	1,2,4-Trimethylbenzene	<1
Benzene	< 0.35	sec-Butylbenzene	<1
Trichloroethene	< 0.5	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	< 0.5	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	< 0.4	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	< 0.5
trans-1,3-Dichloropropene	< 0.4	Naphthalene	<1
1,1,2-Trichloroethane	< 0.5	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Method Blanl	client:	Evren Northwest
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Date Received: Not Applicable Project: 1460-23001-01, F&BI 302273 Lab ID: 02/20/23 03-0340 mb Date Extracted: Date Analyzed: 02/20/23 Data File: 022007.DMatrix: Water Instrument: GCMS13

Units: ug/L (ppb) Operator: lm

		Lower	Upper
Surrogates:	% Recovery:	Limit:	Limit:
1,2-Dichloroethane-d4	101	71	132
Toluene-d8	103	68	139
4-Bromofluorobenzene	104	62	136

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
_		_	
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	< 0.02	Dibromochloromethane	< 0.5
Bromomethane	<5	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	< 50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<5	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<5
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	< 0.2
2-Butanone (MEK)	<20	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	< 0.2	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	< 0.5	1,2,4-Trimethylbenzene	<1
Benzene	< 0.35	sec-Butylbenzene	<1
Trichloroethene	< 0.5	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	< 0.5	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	< 0.4	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	< 0.5
trans-1,3-Dichloropropene	< 0.4	Naphthalene	<1
1,1,2-Trichloroethane	< 0.5	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B11-GW-15	Client:	Evren Northwest
Date Received:	02/18/23	Project:	1460-23001-01, F&BI 302273

Lab ID: 302273-01 Date Extracted: 02/20/23 Date Analyzed: 02/21/23 Data File: 022129.DMatrix: Water Instrument: GC7Units: ug/L (ppb) Operator: MG

		Lower	Upper
Surrogates:	% Recovery:	Limit:	Limit:
Tetrachlorometaxylene	42	24	127
Decachlorobiphenyl	43	11	152

< 0.1

Concentration Compounds: ug/L (ppb) Aroclor 1221 < 0.1 Aroclor 1232 < 0.1 Aroclor 1016 < 0.1 Aroclor 1242< 0.1 Aroclor 1248 < 0.1 Aroclor 1254 < 0.1 Aroclor 1260 < 0.1 Aroclor 1262 < 0.1

Aroclor 1268

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID: Method Blank Client: Evren Northwest

Date Received: Not Applicable Project: 1460-23001-01, F&BI 302273

Date Extracted: 02/20/23 Lab ID: 03-441 mbDate Analyzed: 02/21/23 Data File: 022110.DMatrix: Water Instrument: GC7 Units: ug/L (ppb) Operator: MG

Concentration

Compounds: ug/L (ppb)

< 0.1 Aroclor 1221 < 0.1 Aroclor 1232 Aroclor 1016 < 0.1 Aroclor 1242 < 0.1 Aroclor 1248 < 0.1 Aroclor 1254 < 0.1 Aroclor 1260 < 0.1 Aroclor 1262 < 0.1 Aroclor 1268 < 0.1

ENVIRONMENTAL CHEMISTS

Date of Report: 02/27/23 Date Received: 02/18/23

Project: 1460-23001-01, F&BI 302273

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TPH AS GASOLINE USING METHOD NWTPH-Gx

Laboratory Code: 302273-01 (Duplicate)

	Reporting	Sample	Duplicate	RPD
Analyte	Units	Result	Result	(Limit 20)
Gasoline	ug/L (ppb)	<100	<100	nm

		Percent		
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Gasoline	ug/L (ppb)	1,000	89	70-130

ENVIRONMENTAL CHEMISTS

Date of Report: 02/27/23 Date Received: 02/18/23

Project: 1460-23001-01, F&BI 302273

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Diesel Extended	ug/L (ppb)	2,500	104	112	70-130	7

ENVIRONMENTAL CHEMISTS

Date of Report: 02/27/23 Date Received: 02/18/23

Project: 1460-23001-01, F&BI 302273

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED METALS USING EPA METHOD 6020B

Laboratory Code: 302270-01 (Matrix Spike)

				Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Arsenic	ug/L (ppb)	10	2.42	103	103	75-125	0
Barium	ug/L (ppb)	50	60.8	98	102	75 - 125	4
Cadmium	ug/L (ppb)	5	<1	98	98	75 - 125	0
Chromium	ug/L (ppb)	20	<1	74 vo	74 vo	75 - 125	0
Lead	ug/L (ppb)	10	<1	91	91	75 - 125	0
Mercury	ug/L (ppb)	5	<1	89	90	75 - 125	1
Selenium	ug/L (ppb)	5	5.71	102	98	75 - 125	4
Silver	ug/L (ppb)	5	<1	79	81	75 - 125	2

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	ug/L (ppb)	10	99	80-120
Barium	ug/L (ppb)	50	98	80-120
Cadmium	ug/L (ppb)	5	100	80-120
Chromium	ug/L (ppb)	20	98	80-120
Lead	ug/L (ppb)	10	97	80-120
Mercury	ug/L (ppb)	5	95	80-120
Selenium	ug/L (ppb)	5	99	80-120
Silver	ug/L (ppb)	5	97	80-120

ENVIRONMENTAL CHEMISTS

Date of Report: 02/27/23 Date Received: 02/18/23

Project: 1460-23001-01, F&BI 302273

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 302251-01 (Matrix Spike)

`	1 /			Percent	
	Reporting	Spike	Sample	Recovery	Acceptance
Analyte	Units	Level	Result	MS	Criteria
Dichlorodifluoromethane	ug/L (ppb)	10	<1	7 vo	50-150
Chloromethane	ug/L (ppb)	10	<10	21 vo	50-150
Vinyl chloride	ug/L (ppb)	10 10	< 0.02	33	16-176
Bromomethane Chloroethane	ug/L (ppb) ug/L (ppb)	10	<5 <1	58 61	10-193 50-150
Trichlorofluoromethane	ug/L (ppb)	10	<1	57	50-150
Acetone	ug/L (ppb)	50	<50	93	15-179
1,1-Dichloroethene	ug/L (ppb)	10	<1	80	50-150
Hexane	ug/L (ppb)	10	<5	83	49-161
Methylene chloride	ug/L (ppb)	10	<5	82	40-143
Methyl t-butyl ether (MTBE)	ug/L (ppb)	10	<1	89	50-150
trans-1,2-Dichloroethene 1,1-Dichloroethane	ug/L (ppb) ug/L (ppb)	10 10	<1 <1	88 93	50-150 50-150
2,2-Dichloropropane	ug/L (ppb) ug/L (ppb)	10	<1	107	10-335
cis-1,2-Dichloroethene	ug/L (ppb)	10	<1	97	50-150
Chloroform	ug/L (ppb)	10	<1	96	50-150
2-Butanone (MEK)	ug/L (ppb)	50	<20	99	34-168
1,2-Dichloroethane (EDC)	ug/L (ppb)	10	< 0.2	95	50-150
1,1,1-Trichloroethane	ug/L (ppb)	10	<1	95	50-150
1,1-Dichloropropene	ug/L (ppb)	10	<1	94	50-150
Carbon tetrachloride Benzene	ug/L (ppb)	10	< 0.5	90	50-150
Trichloroethene	ug/L (ppb) ug/L (ppb)	10 10	<0.35 <0.5	95 94	50-150 43-133
1.2-Dichloropropane	ug/L (ppb)	10	<1	99	50-150
Bromodichloromethane	ug/L (ppb)	10	< 0.5	94	50-150
Dibromomethane	ug/L (ppb)	10	<1	101	50-150
4-Methyl-2-pentanone	ug/L (ppb)	50	<10	102	50-150
cis-1,3-Dichloropropene	ug/L (ppb)	10	< 0.4	103	48-145
Toluene	ug/L (ppb)	10	<1	105	50-150
trans-1,3-Dichloropropene	ug/L (ppb)	10	<0.4	107	37-152
1,1,2-Trichloroethane 2-Hexanone	ug/L (ppb) ug/L (ppb)	10 50	<0.5 <10	106 107	50-150 50-150
1,3-Dichloropropane	ug/L (ppb) ug/L (ppb)	10	<10	107	50-150 50-150
Tetrachloroethene	ug/L (ppb)	10	<1	103	50-150
Dibromochloromethane	ug/L (ppb)	10	< 0.5	107	33-164
1,2-Dibromoethane (EDB)	ug/L (ppb)	10	<1	106	50-150
Chlorobenzene	ug/L (ppb)	10	<1	105	50-150
Ethylbenzene	ug/L (ppb)	10	<1	108	50-150
1,1,1,2-Tetrachloroethane	ug/L (ppb)	10	<1	111	50-150
m,p-Xylene	ug/L (ppb)	20 10	<2 <1	109 109	50-150 50-150
o-Xylene Styrene	ug/L (ppb) ug/L (ppb)	10	<1	106	50-150
Isopropylbenzene	ug/L (ppb)	10	<1	102	50-150
Bromoform	ug/L (ppb)	10	<5	105	23-161
n-Propylbenzene	ug/L (ppb)	10	<1	108	50-150
Bromobenzene	ug/L (ppb)	10	<1	107	50-150
1,3,5-Trimethylbenzene	ug/L (ppb)	10	<1	110	50-150
1,1,2,2-Tetrachloroethane	ug/L (ppb)	10	< 0.2	113	10-235
1,2,3-Trichloropropane 2-Chlorotoluene	ug/L (ppb) ug/L (ppb)	10 10	<1 <1	106 111	33-151
4-Chlorotoluene	ug/L (ppb) ug/L (ppb)	10	<1	109	50-150 50-150
tert-Butylbenzene	ug/L (ppb)	10	<1	107	50-150
1,2,4-Trimethylbenzene	ug/L (ppb)	10	<1	109	50-150
sec-Butylbenzene	ug/L (ppb)	10	<1	107	46-139
p-Isopropyltoluene	ug/L (ppb)	10	<1	109	46-140
1,3-Dichlorobenzene	ug/L (ppb)	10	<1	106	50-150
1,4-Dichlorobenzene	ug/L (ppb)	10	<1	108	50-150
1,2-Dichlorobenzene	ug/L (ppb)	10	<1	102	50-150
1,2-Dibromo-3-chloropropane 1.2.4-Trichlorobenzene	ug/L (ppb)	10 10	<10 <1	104 106	50-150 50-150
Hexachlorobutadiene	ug/L (ppb) ug/L (ppb)	10	<0.5	106	42-150
Naphthalene	ug/L (ppb)	10	<1	121	50-150
1,2,3-Trichlorobenzene	ug/L (ppb)	10	<1	113	44-155

ENVIRONMENTAL CHEMISTS

Date of Report: 02/27/23 Date Received: 02/18/23

Project: 1460-23001-01, F&BI 302273

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260D

· ·	•		Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Dichlorodifluoromethane	ug/L (ppb)	10	101	98	70-130	3
Chloromethane	ug/L (ppb)	10	90	88	70-130	2
Vinyl chloride	ug/L (ppb)	10	92	92	70-130	0
Bromomethane	ug/L (ppb)	10 10	109 104	108 101	28-182	1 3
Chloroethane Trichlorofluoromethane	ug/L (ppb) ug/L (ppb)	10	98	98	70-130 70-130	0
Acetone	ug/L (ppb)	50	118	103	42-155	14
1,1-Dichloroethene	ug/L (ppb)	10	102	100	70-130	2
Hexane	ug/L (ppb)	10	91	92	50-161	1
Methylene chloride	ug/L (ppb)	10	99	97	29-192	2
Methyl t-butyl ether (MTBE)	ug/L (ppb)	10	105	103	70-130	2
trans-1,2-Dichloroethene	ug/L (ppb)	10	100	98	70-130	2
1,1-Dichloroethane	ug/L (ppb)	10	104	102	70-130	2
2,2-Dichloropropane cis-1,2-Dichloroethene	ug/L (ppb)	10 10	104 107	116 105	70-130 70-130	11 2
Chloroform	ug/L (ppb) ug/L (ppb)	10	107	105	70-130	0
2-Butanone (MEK)	ug/L (ppb)	50	115	111	50-157	4
1,2-Dichloroethane (EDC)	ug/L (ppb)	10	104	102	70-130	2
1,1,1-Trichloroethane	ug/L (ppb)	10	109	107	70-130	2
1,1-Dichloropropene	ug/L (ppb)	10	103	100	70-130	3
Carbon tetrachloride	ug/L (ppb)	10	104	98	70-130	6
Benzene	ug/L (ppb)	10	105	103	70-130	2
Trichloroethene	ug/L (ppb)	10	101	99	70-130	2
1,2-Dichloropropane	ug/L (ppb)	10 10	107 100	103 99	70-130	4
Bromodichloromethane Dibromomethane	ug/L (ppb) ug/L (ppb)	10	100	108	70-130 70-130	1 4
4-Methyl-2-pentanone	ug/L (ppb) ug/L (ppb)	50	110	113	70-130	3
cis-1,3-Dichloropropene	ug/L (ppb)	10	111	110	70-130	1
Toluene	ug/L (ppb)	10	103	100	70-130	3
trans-1,3-Dichloropropene	ug/L (ppb)	10	110	106	70-130	4
1,1,2-Trichloroethane	ug/L (ppb)	10	104	101	70-130	3
2-Hexanone	ug/L (ppb)	50	103	102	69-130	1
1,3-Dichloropropane	ug/L (ppb)	10	105	102	70-130	3
Tetrachloroethene	ug/L (ppb)	10 10	98	96	70-130	2
Dibromochloromethane 1,2-Dibromoethane (EDB)	ug/L (ppb) ug/L (ppb)	10	104 105	104 102	63-142 70-130	3
Chlorobenzene	ug/L (ppb)	10	102	101	70-130	1
Ethylbenzene	ug/L (ppb)	10	104	102	70-130	2
1,1,1,2-Tetrachloroethane	ug/L (ppb)	10	114	109	70-130	$\overline{4}$
m,p-Xylene	ug/L (ppb)	20	105	103	70-130	2
o-Xylene	ug/L (ppb)	10	107	104	70-130	3
Styrene	ug/L (ppb)	10	102	102	70-130	0
Isopropylbenzene	ug/L (ppb)	10	101	98	70-130	3
Bromoform n-Propylbenzene	ug/L (ppb) ug/L (ppb)	10 10	108 99	107 100	50-157 70-130	1 1
Bromobenzene	ug/L (ppb) ug/L (ppb)	10	102	99	70-130 70-130	3
1,3,5-Trimethylbenzene	ug/L (ppb)	10	101	100	52-150	1
1,1,2,2-Tetrachloroethane	ug/L (ppb)	10	107	107	70-130	0
1,2,3-Trichloropropane	ug/L (ppb)	10	103	103	70-130	0
2-Chlorotoluene	ug/L (ppb)	10	105	105	70-130	0
4-Chlorotoluene	ug/L (ppb)	10	104	101	70-130	3
tert-Butylbenzene	ug/L (ppb)	10	101	100	70-130	1
1,2,4-Trimethylbenzene	ug/L (ppb)	10	102	100	70-130	2
sec-Butylbenzene p-Isopropyltoluene	ug/L (ppb) ug/L (ppb)	10 10	100 101	100 102	70-130 70-130	0 1
1,3-Dichlorobenzene	ug/L (ppb) ug/L (ppb)	10	98	98	70-130	0
1,4-Dichlorobenzene	ug/L (ppb)	10	101	101	70-130	0
1,2-Dichlorobenzene	ug/L (ppb)	10	98	99	70-130	1
1,2-Dibromo-3-chloropropane	ug/L (ppb)	10	105	103	70-130	2
1,2,4-Trichlorobenzene	ug/L (ppb)	10	98	101	70-130	3
Hexachlorobutadiene	ug/L (ppb)	10	95	96	70-130	1
Naphthalene	ug/L (ppb)	10	113	116	70-130	3
1,2,3-Trichlorobenzene	ug/L (ppb)	10	108	108	69-143	0

ENVIRONMENTAL CHEMISTS

Date of Report: 02/27/23 Date Received: 02/18/23

Project: 1460-23001-01, F&BI 302273

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR POLYCHLORINATED BIPHENYLS AS AROCLOR 1016/1260 BY EPA METHOD 8082A

	Reporting	Spike	Percent Recovery	Percent Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Aroclor 1016	ug/L (ppb)	0.25	72	68	25-111	6
Aroclor 1260	ug/L (ppb)	0.25	81	79	23-123	2

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria, biased high; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The analyte is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits due to sample matrix effects.
- j The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.
- ${\bf J}$ The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- k The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Report To Lynn (new follows)

Company Evren Jordans 14480

Address Do Bex 14480

City, State, ZIP Portland OR 07714

Phone 503 45756 Email Lynn Joernan Mu-Long Froject specific RLs? - Yes / No Ph. (206) 285-8282 Friedman & Bruya, Inc. ピーのメース Sample ID Received by Relinquished by: Received by: Relinquished by: 01 A-H 102/1423 Lab ID Date Sampled Sampled 04:9 Time Sample 3 James Broxa \overline{w} Jars PRINT NAME an NWTPH-Dx BTEX EPA 8021 NWTPH-HCID ANALYSES REQUESTED VOCs EPA 8260 PAHs EPA 8270 F\$ 6 tow COMPANY Samples received at 2/2/20 DATE Notes 168 TIME င္ပိ 40:B

SAMPLE CHAIN OF CUSTODY Vulz/

SAMPLERS (signature)

INVOICE TO

TURNAROUND TIME

Rush charges authorized by: X Standard turnaround

SAMPLE DISPOSAL

 △ Archive samples ⊃ Other_

Default: Dispose after 30 days

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Vineta Mills, M.S. Eric Young, B.S.

5500 4th Avenue South Seattle, WA 98108 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

March 7, 2023

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

Dear Mr Green:

Included are the additional results from the testing of material submitted on February 18, 2023 from the 1460-23001-01, F&BI 302273 project. There are 5 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures

c: Neil Woller, Paul Trone, Evan Bruggeman ENW0307R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on February 18, 2023 by Friedman & Bruya, Inc. from the Evren Northwest 1460-23001-01, F&BI 302273 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u> <u>Evren Northwest</u>

302273 -01 B11-GW-15

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method $8270\mathrm{E}$

Client Sample ID:	B11-GW-15	Client:	Evren Northwest
Date Received:	02/18/23	Project:	1460-23001-01, F&BI 302273
Date Extracted:	03/01/23	Lab ID:	302273-01 1/2
Date Analyzed:	03/01/23	Data File:	030118.D
Matrix:	Water	Instrument:	GCMS12
Units:	ug/L (ppb)	Operator:	VM

		Lower	Upper
Surrogates:	% Recovery:	Limit:	Limit:
Nitrobenzene-d5	81	11	173
2-Fluorobiphenyl	81	44	108
2,4,6-Tribromophenol	60	10	140
Terphenyl-d14	86	50	150

* *	
Compounds:	Concentration ug/L (ppb)
NT 1.1 1	-0.4
Naphthalene	< 0.4
2-Methylnaphthalene	< 0.4
1-Methylnaphthalene	< 0.4
Acenaphthylene	< 0.04
Acenaphthene	< 0.04
Fluorene	< 0.04
Phenanthrene	< 0.04
Anthracene	< 0.04
Fluoranthene	< 0.04
Pyrene	< 0.04
Benz(a)anthracene	< 0.04
Chrysene	< 0.04
Benzo(a)pyrene	< 0.04
Benzo(b)fluoranthene	< 0.04
Benzo(k)fluoranthene	< 0.04
Indeno(1,2,3-cd)pyrene	< 0.04
Dibenz(a,h)anthracene	< 0.04
Benzo(g,h,i)perylene	< 0.08

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	Method Blank	Client:	Evren Northwest

Date Received: Not Applicable Project: 1460-23001-01, F&BI 302273 Lab ID: 03/01/23 03-505 mbDate Extracted:

Date Analyzed: 03/01/23 Data File: 030111.DMatrix: Water Instrument: GCMS12 Units: ug/L (ppb) VMOperator:

		Lower	Upper
Surrogates:	% Recovery:	Limit:	Limit:
Nitrobenzene-d5	87	11	173
2-Fluorobiphenyl	84	44	108
2,4,6-Tribromophenol	91	10	140
Terphenyl-d14	96	50	150

	Concentration
Compounds:	ug/L (ppb)
Naphthalene	< 0.2
2-Methylnaphthalene	< 0.2
1-Methylnaphthalene	< 0.2
Acenaphthylene	< 0.02
Acenaphthene	< 0.02
Fluorene	< 0.02
Phenanthrene	< 0.02
Anthracene	< 0.02
Fluoranthene	< 0.02
Pyrene	< 0.02
Benz(a)anthracene	< 0.02
Chrysene	< 0.02
Benzo(a)pyrene	< 0.02
Benzo(b)fluoranthene	< 0.02
Benzo(k)fluoranthene	< 0.02
Indeno(1,2,3-cd)pyrene	< 0.02
Dibenz(a,h)anthracene	< 0.02
Benzo(g,h,i)perylene	< 0.04

ENVIRONMENTAL CHEMISTS

Date of Report: 03/07/23 Date Received: 02/18/23

Project: 1460-23001-01, F&BI 302273

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270E

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Naphthalene	ug/L (ppb)	5	88	87	62-97	1
2-Methylnaphthalene	ug/L (ppb)	5	95	94	64-101	1
1-Methylnaphthalene	ug/L (ppb)	5	98 vo	96 vo	64-93	2
Acenaphthylene	ug/L (ppb)	5	105	102	70-130	3
Acenaphthene	ug/L (ppb)	5	95	93	70-130	2
Fluorene	ug/L (ppb)	5	104	101	70-130	3
Phenanthrene	ug/L (ppb)	5	97	95	70-130	2
Anthracene	ug/L (ppb)	5	98	96	70-130	2
Fluoranthene	ug/L (ppb)	5	103	101	70-130	2
Pyrene	ug/L (ppb)	5	93	95	70-130	2
Benz(a)anthracene	ug/L (ppb)	5	102	101	70-130	1
Chrysene	ug/L (ppb)	5	100	99	70-130	1
Benzo(a)pyrene	ug/L (ppb)	5	97	96	70-130	1
Benzo(b)fluoranthene	ug/L (ppb)	5	98	94	70-130	4
Benzo(k)fluoranthene	ug/L (ppb)	5	95	92	70-130	3
Indeno(1,2,3-cd)pyrene	ug/L (ppb)	5	94	99	70-130	5
Dibenz(a,h)anthracene	ug/L (ppb)	5	88	93	70-130	6
Benzo(g,h,i)perylene	ug/L (ppb)	5	84	91	70-130	8

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria, biased high; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The analyte is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits due to sample matrix effects.
- j The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- k The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- $\ensuremath{\mathsf{nm}}$ The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Company Edward Hordhwebt
Address Pa Box 14480
City State, ZIP Portland OR 97214 Phone 503 452 56 Email Unhu A Dervan Mu Longroject specific RLs? - Yes / No Ph. (206) 285-8282 Friedman & Bruya, Inc. 71-02-15 Sample ID) MWP Received by Relinquished by: Received by: Relinquished by: 01 A-H 07/1423 Lab ID Date Sampled ATURE SAMPLE CHAIN OF CUSTODY $\sqrt{\mu 2/\pm 2}$ Sampled SAMPLERS (signature) 03:9 Time REMARKS PROJECT NAME 1460-23001-01 Sample James Broyes # of Jars ω PRINT NAME)an NWTPH-Dx NWTPH-Gx BTEX EPA 8021 NWTPH-HCID INVOICE TO ANALYSES REQUESTED VOCs EPA 8260 PO# PAHs EPA 8270 F\$ \$ PCBs EPA 8082 420 COMPANY Samples received at Rush charges authorized by: Default: Dispose after 30 days Archive samples X Standard turnaround KUSH_ SAMPLE DISPOSAL TURNAROUND TIME 218 DATE 2/18/23 1-6 Notes 160 TIME റ്റ

Analytical Laboratory Data Validation Check Sheet

Project Name: 10103 NE Marx, Portland

Project Number: 1460-23001-01

Date of Review: 3/8/23 Lab. Name: F&BI Lab Batch ID #: 302273 additional

Chain of Custody			
1.) Are all requested analyses reported?	⊠yes	□no	
2.) Were the requested methods used?	\boxtimes yes	□no	
3.) Trip blank submitted?	□yes	⊠no	
4.) Field blank submitted?	□yes	⊠no	
Timing			
5.) Samples extracted within holding times?	⊠yes	□no	
If not, are all discrepancies footnoted?	□yes	□no	\boxtimes NA
6.) Analysis performed within holding times?	\boxtimes yes	□no	
If not, are all discrepancies footnoted?	□yes	□no	\boxtimes NA
Quality Assurance/Quality Control			
7.) Are the required reporting limits reported? (MRLs vs MDLs/PQLs)	⊠yes	□no	
8.) Are all reported values above either MRL or MDL?	\boxtimes yes	□no	
9.) Are all values between the MDL & PQL tagged as trace?	□yes	□no	\boxtimes NA
10a.) Are reporting limits raised for other reason besides high analyte conc.?	□yes	⊠no	
10b.) If so, are they footnoted?	□yes	□no	\boxtimes NA
11.) Lab method blank completed?	⊠yes	□no	
12.) Lab, Field, or Trip Blank(s) report detections?	□yes	⊠no	
If yes, indicate blank type, chemical(s) and concentration(s):			
13.) For inorganics and metals, is there one method blank for each analyte?	□yes	□no	⊠NA
If not, are all discrepancies footnoted?	□yes	□no	
14.) For VOCs, is there one method blank for each day of analysis?	□yes	□no	\boxtimes NA
If not, are all discrepancies footnoted?	□yes	□no	
15.) For SVOC's, is there one method blank for each extraction batch?	⊠yes	□no	\square NA
If not, are all discrepancies footnoted?	□yes	□no	
<u>Accuracy</u>			
16.) Is there a surrogate spike recovery for all VOC & SVOC samples?	⊠yes	□no	□NA
Do all surrogate spike recoveries meet accepted criteria?	⊠yes	\square no	
If not, are all discrepancies footnoted?	\square yes	□no	\boxtimes NA
17.) Is there a spike recovery for all Laboratory Control Samples?	⊠yes	□no	□NA
Do all LCS/LCSD spike recoveries meet accepted criteria?	□yes	⊠no	
If not, are all discrepancies footnoted?	⊠yes	□no	\boxtimes NA
The value reported fell outside the control limits established for 2-Methylnaphthalen	e.		
18.) Are all LCS/LCSD RPDs within acceptable limits?	⊠yes	□no	\square NA
If not, are all discrepancies footnoted?	\square yes	□no	\boxtimes NA
<u>Precision</u>			
19.) Are all matrix spike/matrix spike duplicate recoveries within			
acceptable limits?	\square yes	\Box no	\boxtimes NA
If not, are all discrepancies footnoted?	\square yes	□no	$\boxtimes NA$
20.) Are all matrix spike/matrix spike duplicate RPDs within			
acceptable limits?	\square yes	□no	\boxtimes NA

If not, are all discrepancies footnoted?		\square yes	□no	\boxtimes NA
21.) Do all RPD calculations for Field Duplicates meet accepted crite	ria?	\square yes	□no	\boxtimes NA
Comments:				
Initial Review By: AR	Final Review By:	EB		_

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Vineta Mills, M.S. Eric Young, B.S.

5500 4th Avenue South Seattle, WA 98108 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

March 8, 2023

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

Dear Mr Green:

Included are the results from the testing of material submitted on February 15, 2023 from the 1460-23001-01, F&BI 302203 project. There are 37 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures

c: Neil Woller, Paul Trone, Evan Bruggeman

ENW0308R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on February 15, 2023 by Friedman & Bruya, Inc. from the Evren Northwest 1460-23001-01, F&BI 302203 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	Evren Northwest
302203 -01	DU01-230214-0.5-IS
302203 -02	DU02-230214-0.5-IS
302203 -03	B01-2
302203 -04	B01-3
302203 -05	B02-2
302203 -06	B02-5

The 8260D samples were taken from a glass jars. The data were flagged accordingly.

Methylene chloride was detected in the 8260D analysis. The results were flagged as laboratory contamination.

The 8260D matrix spike and matrix spike duplicate failed the relative percent difference for several compounds. The analytes were not detected therefore the data were acceptable.

All other quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/08/23 Date Received: 02/15/23

Project: 1460-23001-01, F&BI 302203 Date Extracted: 02/16/23 and 02/17/23 Date Analyzed: 02/16/23 and 02/17/23

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID

Results Reported on a Dry Weight Basis Results Reported as Not Detected (ND) or Detected (D)

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

Sample ID Laboratory ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	Surrogate (% Recovery) (Limit 50-150)
DU01-230214-0.5-IS 302203-01	ND	ND	D	106
DU02-230214-0.5-IS 302203-02	ND	ND	D	100
B01-2 302203-03	ND	ND	D	87
B02-2 302203-05	ND	D	D	106
Method Blank 03-421 MB2	ND	ND	ND	101
Method Blank ⁰³⁻⁴³⁹ MB	ND	ND	ND	89

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

ENVIRONMENTAL CHEMISTS

Date of Report: 03/08/23 Date Received: 02/15/23

Project: 1460-23001-01, F&BI 302203 Date Extracted: 02/21/23 and 02/22/23 Date Analyzed: 02/21/23 and 02/22/23

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND RESIDUAL RANGE USING METHOD NWTPH-Dx

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Diesel Range (C ₁₀ -C ₂₅)	Residual Range (C25-C36)	Surrogate (% Recovery) (Limit 50-150)
DU01-230214-0.5-IS 302203-01	35 x	920	100
DU02-230214-0.5-IS 302203-02	41 x	570	103
B01-2 302203-03	<50	1,300	105
B02-2 302203-05	1,600	11,000	103
Method Blank 03-452 MB	<50	<250	105
Method Blank _{03-485 MB}	<5	<25	115

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID: DU01-230214-0.5-IS Client: Evren Northwest

Date Received: 02/15/23 Project: 1460-23001-01, F&BI 302203

 Date Extracted:
 02/20/23
 Lab ID:
 302203-01

 Date Analyzed:
 02/22/23
 Data File:
 302203-01.063

 Matrix:
 Soil
 Instrument:
 ICPMS2

<1

<1

Units: mg/kg (ppm) Dry Weight Operator: SP

 Concentration mg/kg (ppm)

 Arsenic
 2.66

 Barium
 140

 Cadmium
 <1</td>

 Chromium
 26.2

 Lead
 54.3

 Mercury
 <1</td>

Selenium

Silver

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	DU02-230214-0.5-IS	Client:	Evren Northwest

Date Received: 02/15/23 Project: 1460-23001-01, F&BI 302203

 Date Extracted:
 02/20/23
 Lab ID:
 302203-02

 Date Analyzed:
 02/22/23
 Data File:
 302203-02.064

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	3.47
Barium	147
Cadmium	<1
Chromium	32.8
Lead	37.9
Mercury	<1
Selenium	<1
Silver	<1

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID: B01-2 Client: Evren Northwest

Date Received: 02/15/23 Project: 1460-23001-01, F&BI 302203

 Date Extracted:
 02/16/23
 Lab ID:
 302203-03

 Date Analyzed:
 02/16/23 17:07:47
 Data File:
 302203-03.105

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm) Dry Weight

 Arsenic
 2.89

 Barium
 90.1

 Cadmium
 <1</td>

 Lead
 8.56

 Mercury
 <1</td>

 Selenium
 <1</td>

 Silver
 <1</td>

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID: B01-2 Client: Evren Northwest

Date Received: 02/15/23 Project: 1460-23001-01, F&BI 302203

 Date Extracted:
 02/16/23
 Lab ID:
 302203-03 x5

 Date Analyzed:
 02/16/23 16:54:08
 Data File:
 302203-03 x5.102

Matrix: Soil Instrument: ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Chromium 6.79

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID: B02-2 Client: Evren Northwest

Date Received: 02/15/23 Project: 1460-23001-01, F&BI 302203

 Date Extracted:
 02/16/23
 Lab ID:
 302203-05

 Date Analyzed:
 02/16/23 17:30:37
 Data File:
 302203-05.110

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

 $\begin{array}{cc} & & Concentration \\ Analyte: & & mg/kg \ (ppm) \end{array}$

 Arsenic
 2.27

 Barium
 95.5

 Cadmium
 <1</td>

 Lead
 6.73

 Mercury
 <1</td>

 Selenium
 <1</td>

 Silver
 <1</td>

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID: B02-2 Client: Evren Northwest

Date Received: 02/15/23 Project: 1460-23001-01, F&BI 302203

 Date Extracted:
 02/16/23
 Lab ID:
 302203-05 x5

 Date Analyzed:
 02/17/23 13:14:35
 Data File:
 302203-05 x5.060

Matrix: Soil Instrument: ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Chromium 13.5

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID: Method Blank Client: Evren Northwest

Date Received: Not Applicable Project: 1460-23001-01, F&BI 302203

 Date Extracted:
 02/16/23
 Lab ID:
 I3-111 mb

 Date Analyzed:
 02/16/23 16:45:01
 Data File:
 I3-111 mb.100

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

 $\begin{array}{cc} & & Concentration \\ Analyte: & & mg/kg \ (ppm) \end{array}$

Arsenic <1 Barium <1 Cadmium <1 Chromium <1 Lead <1 Mercury <1 Selenium <1 Silver <1

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID: Method Blank Client: Evren Northwest

Date Received: NA Project: 1460-23001-01, F&BI 302203

Units: mg/kg (ppm) Dry Weight Operator: MG

Concentration mg/kg (ppm)

Arsenic <1 Barium <1 Cadmium <1 Chromium <1 Lead <1 Mercury <1 Selenium <1 Silver <1

Analyte:

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID: DU01-230214-0.5-IS pc Client: Evren Northwest

Date Received: 02/15/23 Project: 1460-23001-01, F&BI 302203

03/01/23 Lab ID: 302203-01 Date Extracted: Date Analyzed: 03/01/23 Data File: 030124.DSoil Matrix: Instrument: GCMS4 Units: mg/kg (ppm) Dry Weight Operator: lm

		Lower	Upper
Surrogates:	% Recovery:	Limit:	Limit:
1,2-Dichloroethane-d4	99	90	109
Toluene-d8	102	89	112
4-Bromofluorobenzene	98	84	115

	Concentration		Concentration
Compounds:	mg/kg (ppm)	Compounds:	mg/kg (ppm)
Dichlorodifluoromethane	< 0.5	1,3-Dichloropropane	< 0.05
Chloromethane	< 0.5	Tetrachloroethene	< 0.025
Vinyl chloride	< 0.05	Dibromochloromethane	< 0.05
Bromomethane	< 0.5	1,2-Dibromoethane (EDB)	< 0.05
Chloroethane	< 0.5	Chlorobenzene	< 0.05
Trichlorofluoromethane	< 0.5	Ethylbenzene	< 0.05
Acetone	<5 ca	1,1,1,2-Tetrachloroethane	< 0.05
1,1-Dichloroethene	< 0.05	m,p-Xylene	< 0.1
Hexane	< 0.25	o-Xylene	< 0.05
Methylene chloride	11 lc	Styrene	< 0.05
Methyl t-butyl ether (MTBE)	< 0.05	Isopropylbenzene	< 0.05
trans-1,2-Dichloroethene	< 0.05	Bromoform	< 0.05
1,1-Dichloroethane	< 0.05	n-Propylbenzene	< 0.05
2,2-Dichloropropane	< 0.05	Bromobenzene	< 0.05
cis-1,2-Dichloroethene	< 0.05	1,3,5-Trimethylbenzene	< 0.05
Chloroform	< 0.05	1,1,2,2-Tetrachloroethane	< 0.05
2-Butanone (MEK)	<1	1,2,3-Trichloropropane	< 0.05
1,2-Dichloroethane (EDC)	< 0.05	2-Chlorotoluene	< 0.05
1,1,1-Trichloroethane	< 0.05	4-Chlorotoluene	< 0.05
1,1-Dichloropropene	< 0.05	tert-Butylbenzene	< 0.05
Carbon tetrachloride	< 0.05	1,2,4-Trimethylbenzene	< 0.05
Benzene	< 0.03	sec-Butylbenzene	< 0.05
Trichloroethene	< 0.02	p-Isopropyltoluene	< 0.05
1,2-Dichloropropane	< 0.05	1,3-Dichlorobenzene	< 0.05
Bromodichloromethane	< 0.05	1,4-Dichlorobenzene	< 0.05
Dibromomethane	< 0.05	1,2-Dichlorobenzene	< 0.05
4-Methyl-2-pentanone	<1	1,2-Dibromo-3-chloropropane	< 0.5
cis-1,3-Dichloropropene	< 0.05	1,2,4-Trichlorobenzene	< 0.25
Toluene	< 0.05	Hexachlorobutadiene	< 0.25
trans-1,3-Dichloropropene	< 0.05	Naphthalene	< 0.05
1,1,2-Trichloroethane	< 0.05	1,2,3-Trichlorobenzene	< 0.25
2-Hexanone	< 0.5		

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID: DU02-230214-0.5-IS pc Client: Evren Northwest

Date Received: 02/15/23 Project: 1460-23001-01, F&BI 302203

03/01/23 Lab ID: Date Extracted: 302203-02 Date Analyzed: 03/01/23 Data File: 030125.DMatrix: Soil Instrument: GCMS4 Units: mg/kg (ppm) Dry Weight Operator: lm

Upper Lower Surrogates: % Recovery: Limit: Limit: 1,2-Dichloroethane-d4 95 90 109 Toluene-d8 102 89 112 4-Bromofluorobenzene 96 84 115

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	< 0.5	1,3-Dichloropropane	< 0.05
Chloromethane	< 0.5	Tetrachloroethene	< 0.025
Vinyl chloride	< 0.05	Dibromochloromethane	< 0.05
Bromomethane	< 0.5	1,2-Dibromoethane (EDB)	< 0.05
Chloroethane	< 0.5	Chlorobenzene	< 0.05
Trichlorofluoromethane	< 0.5	Ethylbenzene	< 0.05
Acetone	<5 ca	1,1,1,2-Tetrachloroethane	< 0.05
1,1-Dichloroethene	< 0.05	m,p-Xylene	< 0.1
Hexane	< 0.25	o-Xylene	< 0.05
Methylene chloride	6.8 lc	Styrene	< 0.05
Methyl t-butyl ether (MTBE)	< 0.05	Isopropylbenzene	< 0.05
trans-1,2-Dichloroethene	< 0.05	Bromoform	< 0.05
1,1-Dichloroethane	< 0.05	n-Propylbenzene	< 0.05
2,2-Dichloropropane	< 0.05	Bromobenzene	< 0.05
cis-1,2-Dichloroethene	< 0.05	1,3,5-Trimethylbenzene	< 0.05
Chloroform	< 0.05	1,1,2,2-Tetrachloroethane	< 0.05
2-Butanone (MEK)	<1	1,2,3-Trichloropropane	< 0.05
1,2-Dichloroethane (EDC)	< 0.05	2-Chlorotoluene	< 0.05
1,1,1-Trichloroethane	< 0.05	4-Chlorotoluene	< 0.05
1,1-Dichloropropene	< 0.05	tert-Butylbenzene	< 0.05
Carbon tetrachloride	< 0.05	1,2,4-Trimethylbenzene	< 0.05
Benzene	< 0.03	sec-Butylbenzene	< 0.05
Trichloroethene	< 0.02	p-Isopropyltoluene	< 0.05
1,2-Dichloropropane	< 0.05	1,3-Dichlorobenzene	< 0.05
Bromodichloromethane	< 0.05	1,4-Dichlorobenzene	< 0.05
Dibromomethane	< 0.05	1,2-Dichlorobenzene	< 0.05
4-Methyl-2-pentanone	<1	1,2-Dibromo-3-chloropropane	< 0.5
cis-1,3-Dichloropropene	< 0.05	1,2,4-Trichlorobenzene	< 0.25
Toluene	< 0.05	Hexachlorobutadiene	< 0.25
trans-1,3-Dichloropropene	< 0.05	Naphthalene	< 0.05
1,1,2-Trichloroethane	< 0.05	1,2,3-Trichlorobenzene	< 0.25
2-Hexanone	< 0.5		

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID: B01-2 pc Client: Evren Northwest

Date Received: 02/15/23 Project: 1460-23001-01, F&BI 302203

03/01/23 Lab ID: Date Extracted: 302203-03 Date Analyzed: 03/01/23 Data File: 030126.DMatrix: Soil Instrument: GCMS4 Units: mg/kg (ppm) Dry Weight Operator: lm

		Lower	Opper
Surrogates:	% Recovery:	Limit:	Limit:
1,2-Dichloroethane-d4	97	90	109
Toluene-d8	102	89	112
4-Bromofluorobenzene	96	84	115

	Concentration		Concentration
Compounds:	mg/kg (ppm)	Compounds:	mg/kg (ppm)
Dichlorodifluoromethane	< 0.5	1,3-Dichloropropane	< 0.05
Chloromethane	< 0.5	Tetrachloroethene	0.30
Vinyl chloride	< 0.05	Dibromochloromethane	< 0.05
Bromomethane	< 0.5	1,2-Dibromoethane (EDB)	< 0.05
Chloroethane	< 0.5	Chlorobenzene	< 0.05
Trichlorofluoromethane	< 0.5	Ethylbenzene	< 0.05
Acetone	<5 ca	1,1,1,2-Tetrachloroethane	< 0.05
1,1-Dichloroethene	< 0.05	m,p-Xylene	< 0.1
Hexane	< 0.25	o-Xylene	< 0.05
Methylene chloride	< 0.5	Styrene	< 0.05
Methyl t-butyl ether (MTBE)	< 0.05	Isopropylbenzene	< 0.05
trans-1,2-Dichloroethene	< 0.05	Bromoform	< 0.05
1,1-Dichloroethane	< 0.05	n-Propylbenzene	< 0.05
2,2-Dichloropropane	< 0.05	Bromobenzene	< 0.05
cis-1,2-Dichloroethene	< 0.05	1,3,5-Trimethylbenzene	< 0.05
Chloroform	< 0.05	1,1,2,2-Tetrachloroethane	< 0.05
2-Butanone (MEK)	<1	1,2,3-Trichloropropane	< 0.05
1,2-Dichloroethane (EDC)	< 0.05	2-Chlorotoluene	< 0.05
1,1,1-Trichloroethane	< 0.05	4-Chlorotoluene	< 0.05
1,1-Dichloropropene	< 0.05	tert-Butylbenzene	< 0.05
Carbon tetrachloride	< 0.05	1,2,4-Trimethylbenzene	< 0.05
Benzene	< 0.03	sec-Butylbenzene	< 0.05
Trichloroethene	< 0.02	p-Isopropyltoluene	< 0.05
1,2-Dichloropropane	< 0.05	1,3-Dichlorobenzene	< 0.05
Bromodichloromethane	< 0.05	1,4-Dichlorobenzene	< 0.05
Dibromomethane	< 0.05	1,2-Dichlorobenzene	< 0.05
4-Methyl-2-pentanone	<1	1,2-Dibromo-3-chloropropane	< 0.5
cis-1,3-Dichloropropene	< 0.05	1,2,4-Trichlorobenzene	< 0.25
Toluene	< 0.05	Hexachlorobutadiene	< 0.25
trans-1,3-Dichloropropene	< 0.05	Naphthalene	< 0.05
1,1,2-Trichloroethane	< 0.05	1,2,3-Trichlorobenzene	< 0.25
2-Hexanone	< 0.5		

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID: B02-2 pc Client: Evren Northwest

Date Received: 02/15/23 Project: 1460-23001-01, F&BI 302203

03/01/23 Lab ID: Date Extracted: 302203-05 Date Analyzed: 03/01/23 Data File: $030127.\mathrm{D}$ Matrix: Soil Instrument: GCMS4 Units: mg/kg (ppm) Dry Weight Operator: lm

Lower Upper Surrogates: % Recovery: Limit: Limit: 1,2-Dichloroethane-d4 100 90 109

 Toluene-d8
 100
 89
 112

 4-Bromofluorobenzene
 97
 84
 115

	Concentration		Concentration
Compounds:	mg/kg (ppm)	Compounds:	mg/kg (ppm)
Dichlorodifluoromethane	< 0.5	1,3-Dichloropropane	< 0.05
Chloromethane	< 0.5	Tetrachloroethene	13
Vinyl chloride	< 0.05	Dibromochloromethane	< 0.05
Bromomethane	< 0.5	1,2-Dibromoethane (EDB)	< 0.05
Chloroethane	< 0.5	Chlorobenzene	< 0.05
Trichlorofluoromethane	< 0.5	Ethylbenzene	< 0.05
Acetone	<5 ca	1,1,1,2-Tetrachloroethane	< 0.05
1,1-Dichloroethene	< 0.05	m,p-Xylene	< 0.1
Hexane	< 0.25	o-Xylene	< 0.05
Methylene chloride	< 0.5	Styrene	< 0.05
Methyl t-butyl ether (MTBE)	< 0.05	Isopropylbenzene	< 0.05
trans-1,2-Dichloroethene	< 0.05	Bromoform	< 0.05
1,1-Dichloroethane	< 0.05	n-Propylbenzene	< 0.05
2,2-Dichloropropane	< 0.05	Bromobenzene	< 0.05
cis-1,2-Dichloroethene	< 0.05	1,3,5-Trimethylbenzene	0.091
Chloroform	< 0.05	1,1,2,2-Tetrachloroethane	< 0.05
2-Butanone (MEK)	<1	1,2,3-Trichloropropane	< 0.05
1,2-Dichloroethane (EDC)	< 0.05	2-Chlorotoluene	< 0.05
1,1,1-Trichloroethane	< 0.05	4-Chlorotoluene	< 0.05
1,1-Dichloropropene	< 0.05	tert-Butylbenzene	< 0.05
Carbon tetrachloride	< 0.05	1,2,4-Trimethylbenzene	0.058
Benzene	< 0.03	sec-Butylbenzene	< 0.05
Trichloroethene	0.056	p-Isopropyltoluene	< 0.05
1,2-Dichloropropane	< 0.05	1,3-Dichlorobenzene	< 0.05
Bromodichloromethane	< 0.05	1,4-Dichlorobenzene	< 0.05
Dibromomethane	< 0.05	1,2-Dichlorobenzene	0.13
4-Methyl-2-pentanone	<1	1,2-Dibromo-3-chloropropane	< 0.5
cis-1,3-Dichloropropene	< 0.05	1,2,4-Trichlorobenzene	< 0.25
Toluene	< 0.05	Hexachlorobutadiene	< 0.25
trans-1,3-Dichloropropene	< 0.05	Naphthalene	0.16
1,1,2-Trichloroethane	< 0.05	1,2,3-Trichlorobenzene	< 0.25
2-Hexanone	< 0.5		

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID: Method Blank Client: Evren Northwest

Date Received: Not Applicable Project: 1460-23001-01, F&BI 302203

03/01/23 Lab ID: Date Extracted: 03-0359 mbDate Analyzed: 03/01/23 Data File: 030113.DMatrix: Soil Instrument: GCMS4 Units: mg/kg (ppm) Dry Weight Operator: lm

Upper Lower Surrogates: % Recovery: Limit: Limit: 1,2-Dichloroethane-d4 98 90 109 Toluene-d8 100 89 112 4-Bromofluorobenzene 96 84 115

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	< 0.5	1,3-Dichloropropane	< 0.05
Chloromethane	< 0.5	Tetrachloroethene	< 0.025
Vinyl chloride	< 0.05	Dibromochloromethane	< 0.05
Bromomethane	< 0.5	1,2-Dibromoethane (EDB)	< 0.05
Chloroethane	< 0.5	Chlorobenzene	< 0.05
Trichlorofluoromethane	< 0.5	Ethylbenzene	< 0.05
Acetone	<5 ca	1,1,1,2-Tetrachloroethane	< 0.05
1,1-Dichloroethene	< 0.05	m,p-Xylene	< 0.1
Hexane	< 0.25	o-Xylene	< 0.05
Methylene chloride	< 0.5	Styrene	< 0.05
Methyl t-butyl ether (MTBE)	< 0.05	Isopropylbenzene	< 0.05
trans-1,2-Dichloroethene	< 0.05	Bromoform	< 0.05
1,1-Dichloroethane	< 0.05	n-Propylbenzene	< 0.05
2,2-Dichloropropane	< 0.05	Bromobenzene	< 0.05
cis-1,2-Dichloroethene	< 0.05	1,3,5-Trimethylbenzene	< 0.05
Chloroform	< 0.05	1,1,2,2-Tetrachloroethane	< 0.05
2-Butanone (MEK)	<1	1,2,3-Trichloropropane	< 0.05
1,2-Dichloroethane (EDC)	< 0.05	2-Chlorotoluene	< 0.05
1,1,1-Trichloroethane	< 0.05	4-Chlorotoluene	< 0.05
1,1-Dichloropropene	< 0.05	tert-Butylbenzene	< 0.05
Carbon tetrachloride	< 0.05	1,2,4-Trimethylbenzene	< 0.05
Benzene	< 0.03	sec-Butylbenzene	< 0.05
Trichloroethene	< 0.02	p-Isopropyltoluene	< 0.05
1,2-Dichloropropane	< 0.05	1,3-Dichlorobenzene	< 0.05
Bromodichloromethane	< 0.05	1,4-Dichlorobenzene	< 0.05
Dibromomethane	< 0.05	1,2-Dichlorobenzene	< 0.05
4-Methyl-2-pentanone	<1	1,2-Dibromo-3-chloropropane	< 0.5
cis-1,3-Dichloropropene	< 0.05	1,2,4-Trichlorobenzene	< 0.25
Toluene	< 0.05	Hexachlorobutadiene	< 0.25
trans-1,3-Dichloropropene	< 0.05	Naphthalene	< 0.05
1,1,2-Trichloroethane	< 0.05	1,2,3-Trichlorobenzene	< 0.25
2-Hexanone	< 0.5		

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID: DU01-230214-0.5-IS Client: Evren Northwest

Date Received: 02/15/23 Project: 1460-23001-01, F&BI 302203

Date Extracted: 03/01/23 Lab ID: 302203-01 1/25 Date Analyzed: 03/02/23 Data File: 030216.DSoil Matrix: Instrument: GCMS9 Units: mg/kg (ppm) Dry Weight VMOperator:

Upper Lower Surrogates: % Recovery: Limit: Limit: 198 Nitrobenzene-d5 71 d 10 2-Fluorobiphenyl 85 d 117 45 2,4,6-Tribromophenol 88 d 11 15850 124

Terphenyl-d14 104 d Concentration Compounds: mg/kg (ppm) Naphthalene < 0.05 2-Methylnaphthalene < 0.05 1-Methylnaphthalene < 0.05 Acenaphthylene < 0.05 Acenaphthene < 0.05 < 0.05 < 0.05 < 0.05

Fluorene Phenanthrene Anthracene Fluoranthene 0.058 Pyrene 0.088 Benz(a)anthracene < 0.05 Chrysene 0.064 Benzo(a)pyrene 0.060 Benzo(b)fluoranthene 0.085Benzo(k)fluoranthene < 0.05 Indeno(1,2,3-cd)pyrene 0.057 Dibenz(a,h)anthracene < 0.05 Benzo(g,h,i)perylene 0.086

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Date Received: 02/15/23 Project: 1460-23001-01, F&BI 302203 Date Extracted: 03/01/23 Lab ID: 302203-02 1/25

Date Analyzed: 03/01/23 Data File: 030117.D

Matrix: Soil Instrument: GCMS9

Units: mg/kg (ppm) Dry Weight Operator: VM

		Lower	Upper
Surrogates:	% Recovery:	Limit:	Limit:
Nitrobenzene-d5	68 d	10	198
2-Fluorobiphenyl	84 d	45	117
2,4,6-Tribromophenol	93 d	11	158
Terphenyl-d14	105 d	50	124

Concentration Compounds: mg/kg (ppm) Naphthalene < 0.05 2-Methylnaphthalene < 0.05 1-Methylnaphthalene < 0.05 Acenaphthylene < 0.05 Acenaphthene < 0.05 Fluorene < 0.05 Phenanthrene < 0.05 Anthracene < 0.05 Fluoranthene 0.16 Pyrene 0.23 Benz(a)anthracene 0.088 Chrysene 0.12 Benzo(a)pyrene 0.16 Benzo(b)fluoranthene 0.18 Benzo(k)fluoranthene < 0.05 Indeno(1,2,3-cd)pyrene 0.14 Dibenz(a,h)anthracene < 0.05 Benzo(g,h,i)perylene 0.16

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID: B01-2 Client: **Evren Northwest**

Date Received: 02/15/23 Project: 1460-23001-01, F&BI 302203

Date Extracted: 03/01/23 Lab ID: 302203-03 1/25 Date Analyzed: 03/01/23 Data File: 030113.D GCMS9 Matrix: Soil Instrument: Units: mg/kg (ppm) Dry Weight VMOperator:

Upper Lower Surrogates: % Recovery: Limit: Limit:

198 Nitrobenzene-d5 74 d 10 2-Fluorobiphenyl 90 d 117 45 2,4,6-Tribromophenol 94 d11 158Terphenyl-d14 105 d 50 124

Concentration Compounds: mg/kg (ppm)

Naphthalene < 0.05 2-Methylnaphthalene < 0.05 1-Methylnaphthalene < 0.05 Acenaphthylene < 0.05 Acenaphthene < 0.05 Fluorene < 0.05 Phenanthrene < 0.05 Anthracene < 0.05 Fluoranthene < 0.05 Pyrene < 0.05 Benz(a)anthracene < 0.05 Chrysene < 0.05 Benzo(a)pyrene < 0.05 Benzo(b)fluoranthene < 0.05 Benzo(k)fluoranthene < 0.05 Indeno(1,2,3-cd)pyrene < 0.05 Dibenz(a,h)anthracene < 0.05 Benzo(g,h,i)perylene < 0.05

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID: B02-2 Client: Evren Northwest

Date Received: 02/15/23 Project: 1460-23001-01, F&BI 302203

Date Extracted: 03/01/23 Lab ID: 302203-05 1/25 Date Analyzed: 03/01/23 Data File: 030114.DMatrix: Soil Instrument: GCMS9 Units: mg/kg (ppm) Dry Weight VMOperator:

Upper Lower Surrogates: % Recovery: Limit: Limit: 198 Nitrobenzene-d5 79 d 10 2-Fluorobiphenyl 90 d 117 45 2,4,6-Tribromophenol 99 d 11 158Terphenyl-d14 117 d 50 124

Concentration Compounds: mg/kg (ppm) Naphthalene 0.15 2-Methylnaphthalene 1.3 1-Methylnaphthalene 1.5 Acenaphthylene < 0.05 Acenaphthene 0.25Fluorene 0.43 Phenanthrene 0.95Anthracene 0.18 Fluoranthene 0.083 Pyrene 0.17 Benz(a)anthracene < 0.05 Chrysene 0.062 Benzo(a)pyrene < 0.05 Benzo(b)fluoranthene < 0.05 Benzo(k)fluoranthene < 0.05 Indeno(1,2,3-cd)pyrene < 0.05 Dibenz(a,h)anthracene < 0.05 Benzo(g,h,i)perylene < 0.05

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	Method Blank	Client:	Evren Northwest
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Date Received: Not Applicable 1460-23001-01, F&BI 302203 Project:

Lab ID: Date Extracted: 03/01/23 03-496 mb2 1/5 03/01/23 Date Analyzed: Data File: 030108.DGCMS9 Matrix: Soil Instrument: Units: mg/kg (ppm) Dry Weight VMOperator:

Upper Lower Surrogates: % Recovery: Limit: Limit: 198 Nitrobenzene-d5 10 2-Fluorobiphenyl 96 $\overline{117}$ 45

2,4,6-Tribromophenol 89 11 158Terphenyl-d14 123 50 124

Concentration Compounds: mg/kg (ppm) Naphthalene < 0.01 2-Methylnaphthalene < 0.01 1-Methylnaphthalene < 0.01 Acenaphthylene < 0.01 Acenaphthene < 0.01 Fluorene < 0.01 Phenanthrene < 0.01 Anthracene < 0.01 Fluoranthene < 0.01 Pyrene < 0.01 Benz(a)anthracene < 0.01 Chrysene < 0.01 Benzo(a)pyrene < 0.01 Benzo(b)fluoranthene < 0.01 Benzo(k)fluoranthene < 0.01 Indeno(1,2,3-cd)pyrene < 0.01 Dibenz(a,h)anthracene < 0.01 Benzo(g,h,i)perylene < 0.01

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID: DU01-230214-0.5-IS Client: Evren Northwest

Date Received: 02/15/23 Project: 1460-23001-01, F&BI 302203

Date Extracted: 02/17/23 Lab ID: 302203-01 1/6 Date Analyzed: 02/17/23 Data File: 021722.DMatrix: Soil Instrument: GC9 Units: mg/kg (ppm) Dry Weight Operator: VM

Lower Upper

Surrogates: % Recovery: Limit: Limit: Tetrachlorometaxylene 112 23 120 Decachlorobiphenyl 91 47 114

Concentration
Compounds: mg/kg (ppm)

Aroclor 1221 <0.02

Aroclor 1232 < 0.02 Aroclor 1016 < 0.02 Aroclor 1242 < 0.02 Aroclor 1248 < 0.02 Aroclor 1254 < 0.02 Aroclor 1260 0.30 Aroclor 1262 < 0.02 Aroclor 1268 < 0.02

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID: DU02-230214-0.5-IS Client: **Evren Northwest**

Date Received: 02/15/23 Project: 1460-23001-01, F&BI 302203

Date Extracted: 02/17/23 Lab ID: 302203-02 1/6 Date Analyzed: 02/17/23 Data File: 021723.DMatrix: Soil Instrument: GC9 Units: mg/kg (ppm) Dry Weight Operator: VM

Upper Limit: Lower % Recovery: Limit:

Surrogates: Tetrachlorometaxylene 120 121 23 Decachlorobiphenyl 94 $\overline{47}$ 114

Concentration Compounds: mg/kg (ppm) Aroclor 1221 < 0.02

Aroclor 1232 < 0.02 Aroclor 1016 < 0.02 Aroclor 1242 < 0.02 Aroclor 1248 < 0.02 Aroclor 1254 < 0.02 Aroclor 1260 0.51Aroclor 1262 < 0.02 Aroclor 1268 < 0.02

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID: B01-2 Client: Evren Northwest

Date Received: 02/15/23 Project: 1460-23001-01, F&BI 302203

Date Extracted: 02/21/22 Lab ID: 302203-03 1/30 Date Analyzed: 02/22/23 Data File: 022214.DMatrix: Soil Instrument: GC7 Units: mg/kg (ppm) Dry Weight Operator: MG

Surrogates: Lower Upper Limit: Limit:

Surrogates: % Recovery: Limit: Limit: Tetrachlorometaxylene 81 29 154
Decachlorobiphenyl 95 11 152

Concentration
Compounds: mg/kg (ppm)

Aroclor 1221 <0.02

Aroclor 1232 < 0.02 Aroclor 1016 < 0.02 Aroclor 1242 0.035Aroclor 1248 < 0.02 Aroclor 1254 < 0.02 Aroclor 1260 < 0.02 Aroclor 1262 < 0.02 Aroclor 1268 < 0.02

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID: B02-2 Client: Evren Northwest

Date Received: 02/15/23 Project: 1460-23001-01, F&BI 302203

Date Extracted: 02/21/23 Lab ID: 302203-05 1/30 Date Analyzed: 02/23/23 Data File: 022308.DMatrix: Soil Instrument: GC7 Units: mg/kg (ppm) Dry Weight Operator: MG

Surrogates: Lower Upper Limit: Limit:

Surrogates: % Recovery: Limit: Limit: Tetrachlorometaxylene 73 29 154 Decachlorobiphenyl 112 11 152

Concentration
Compounds: mg/kg (ppm)

Aroclor 1221 <0.02
Aroclor 1232 <0.02
Aroclor 1016 <0.02
Aroclor 1242 <0.02

 Aroclor 1242
 <0.02</td>

 Aroclor 1248
 <0.02</td>

 Aroclor 1254
 <0.02</td>

 Aroclor 1260
 <0.02</td>

 Aroclor 1262
 <0.02</td>

Aroclor 1268 <0.02

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID: Method Blank Client: Evren Northwest

Date Received: Not Applicable Project: 1460-23001-01, F&BI 302203

Date Extracted: 02/17/23 Lab ID: 03-437 mb2 1/6 Date Analyzed: 02/17/23 Data File: 021720.DGC9 Matrix: Soil Instrument: Units: mg/kg (ppm) Dry Weight Operator: VM

Lower Upper

Surrogates: % Recovery: Limit: Limit: Tetrachlorometaxylene 116 23 120 Decachlorobiphenyl 112 47 114

Decachlorobiphenyl 112

Concentration
mg/kg (ppm)

Aroclor 1221 < 0.02 Aroclor 1232 < 0.02 Aroclor 1016 < 0.02 Aroclor 1242 < 0.02 Aroclor 1248 < 0.02 Aroclor 1254 < 0.02 Aroclor 1260 < 0.02 Aroclor 1262 < 0.02 Aroclor 1268 < 0.02

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID: Method Blank Client: Evren Northwest

Date Received: Not Applicable Project: 1460-23001-01, F&BI 302203

 Date Extracted:
 02/21/22
 Lab ID:
 03-447 mb2 1/30

 Date Analyzed:
 02/22/23
 Data File:
 022207.D

 Matrix:
 Soil
 Instrument:
 GC7

Units: mg/kg (ppm) Dry Weight Operator: MG

Concentration Compounds: mg/kg (ppm) Aroclor 1221 < 0.02 Aroclor 1232 < 0.02 Aroclor 1016 < 0.02 Aroclor 1242 < 0.02 Aroclor 1248 < 0.02 Aroclor 1254 < 0.02 Aroclor 1260 < 0.02 Aroclor 1262 < 0.02 Aroclor 1268 < 0.02

ENVIRONMENTAL CHEMISTS

Date of Report: 03/08/23 Date Received: 02/15/23

Project: 1460-23001-01, F&BI 302203

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 302203-03 (Matrix Spike)

			(Wet wt)	Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	790	98	96	70-130	2

		Percent		
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Diesel Extended	mg/kg (ppm)	5,000	102	70-130

ENVIRONMENTAL CHEMISTS

Date of Report: 03/08/23 Date Received: 02/15/23

Project: 1460-23001-01, F&BI 302203

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

-	-	_	Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Diesel Extended	mg/kg (ppm)	500	99	102	70-130	3

ENVIRONMENTAL CHEMISTS

Date of Report: 03/08/23 Date Received: 02/15/23

Project: 1460-23001-01, F&BI 302203

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 6020B

Laboratory Code: 302234-05 x5 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Arsenic	mg/kg (ppm)	10	<5	98	101	75-125	3
Barium	mg/kg (ppm)	50	38.0	99	95	75 - 125	4
Cadmium	mg/kg (ppm)	10	<5	98	96	75 - 125	2
Chromium	mg/kg (ppm)	50	19.1	95	96	75 - 125	1
Lead	mg/kg (ppm)	50	<5	89	89	75 - 125	0
Mercury	mg/kg (ppm	5	<5	91	93	75 - 125	2
Selenium	mg/kg (ppm)	5	<5	97	101	75 - 125	4
Silver	mg/kg (ppm)	10	<5	92	92	75 - 125	0

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	mg/kg (ppm)	10	95	80-120
Barium	mg/kg (ppm)	50	102	80-120
Cadmium	mg/kg (ppm)	10	103	80-120
Chromium	mg/kg (ppm)	50	116	80-120
Lead	mg/kg (ppm)	50	103	80-120
Mercury	mg/kg (ppm)	5	99	80-120
Selenium	mg/kg (ppm)	5	101	80-120
Silver	mg/kg (ppm)	10	95	80-120

ENVIRONMENTAL CHEMISTS

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 6020B

Laboratory Code: $302203-03 \times 5$ (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Arsenic	mg/kg (ppm)	10	<5	94	85	75-125	10
Barium	mg/kg (ppm)	50	77.0	129 b	113	75 - 125	13
Cadmium	mg/kg (ppm)	10	<5	99	94	75 - 125	5
Chromium	mg/kg (ppm)	50	6.24	98	93	75 - 125	5
Lead	mg/kg (ppm)	50	9.11	102	95	75 - 125	7
Mercury	mg/kg (ppm	5	<5	101	99	75 - 125	2
Selenium	mg/kg (ppm)	5	<5	96	88	75 - 125	9
Silver	mg/kg (ppm)	10	<5	96	91	75 - 125	5

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	mg/kg (ppm)	10	93	80-120
Barium	mg/kg (ppm)	50	98	80-120
Cadmium	mg/kg (ppm)	10	98	80-120
Chromium	mg/kg (ppm)	50	104	80-120
Lead	mg/kg (ppm)	50	102	80-120
Mercury	mg/kg (ppm)	5	104	80-120
Selenium	mg/kg (ppm)	5	95	80-120
Silver	mg/kg (ppm)	10	100	80-120

ENVIRONMENTAL CHEMISTS

Date of Report: 03/08/23 Date Received: 02/15/23

Project: 1460-23001-01, F&BI 302203

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 302382-04 (Matrix Spike)

,	1 /		Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Dichlorodifluoromethane	mg/kg (ppm)	2	< 0.5	14	10	10-142	33 vo
Chloromethane	mg/kg (ppm)	2	< 0.5	42	33	10-126	24 vo
Vinyl chloride	mg/kg (ppm)	2	< 0.05	38	31	10-138	20
Bromomethane	mg/kg (ppm)	2	< 0.5	83	72	10-163	14
Chloroethane	mg/kg (ppm)	2	< 0.5	55	48	10-176	14
Trichlorofluoromethane	mg/kg (ppm)	2 10	< 0.5	50	39	10-176	25 vo
Acetone 1.1-Dichloroethene	mg/kg (ppm) mg/kg (ppm)	2	<5 <0.05	57 64	52 51	10-163 10-160	9 23 vo
Hexane	mg/kg (ppm)	2	< 0.25	35	25	10-137	23 vo 33 vo
Methylene chloride	mg/kg (ppm)	2	< 0.5	78	64	10-156	20
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2	< 0.05	83	71	21-145	16
trans-1,2-Dichloroethene	mg/kg (ppm)	2	< 0.05	71	58	14-137	20
1,1-Dichloroethane	mg/kg (ppm)	2	< 0.05	72	60	19-140	18
2.2-Dichloropropane	mg/kg (ppm)	2	< 0.05	68	59	10-158	14
cis-1,2-Dichloroethene	mg/kg (ppm)	2	< 0.05	77	66	25-135	15
Chloroform	mg/kg (ppm)	2	< 0.05	81	68	21-145	17
2-Butanone (MEK)	mg/kg (ppm)	10	<1	76	67	19-147	13
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2	< 0.05	82	69	12-160	17
1,1,1-Trichloroethane	mg/kg (ppm)	2	< 0.05	81	68	10-156	17
1,1-Dichloropropene	mg/kg (ppm)	2	< 0.05	71	59	17-140	18
Carbon tetrachloride	mg/kg (ppm)	2	< 0.05	74	62	9-164	18
Benzene	mg/kg (ppm)	2	< 0.03	77	66	29-129	15
Trichloroethene	mg/kg (ppm)	2	< 0.02	80	67	21-139	18
1,2-Dichloropropane	mg/kg (ppm)	2	< 0.05	72	61	30-135	17
Bromodichloromethane	mg/kg (ppm)	$\frac{2}{2}$	< 0.05	81	69	23-155	16
Dibromomethane	mg/kg (ppm)	2 10	< 0.05	81	71	23-145	13
4-Methyl-2-pentanone cis-1,3-Dichloropropene	mg/kg (ppm)	2	<1 <0.05	87 74	76 64	24-155 $28-144$	13 14
Toluene	mg/kg (ppm) mg/kg (ppm)	2	< 0.05	76	65	35-130	16
trans-1,3-Dichloropropene	mg/kg (ppm)	2	< 0.05	72	63	26-149	13
1,1,2-Trichloroethane	mg/kg (ppm)	2	< 0.05	72	62	10-205	15
2-Hexanone	mg/kg (ppm)	10	< 0.5	87	77	15-166	12
1,3-Dichloropropane	mg/kg (ppm)	2	< 0.05	77	67	31-137	14
Tetrachloroethene	mg/kg (ppm)	2	< 0.025	83	70	20-133	17
Dibromochloromethane	mg/kg (ppm)	2	< 0.05	72	63	28-150	13
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2	< 0.05	75	65	28-142	14
Chlorobenzene	mg/kg (ppm)	2	< 0.05	80	69	32-129	15
Ethylbenzene	mg/kg (ppm)	2	< 0.05	80	68	32-137	16
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2	< 0.05	78	68	31-143	14
m,p-Xylene	mg/kg (ppm)	4	< 0.1	80	69	34-136	15
o-Xylene	mg/kg (ppm)	2	< 0.05	80	69	33-134	15
Styrene	mg/kg (ppm)	2	< 0.05	80	68	35-137	16
Isopropylbenzene	mg/kg (ppm)	2 2	< 0.05	85	72	31-142	17
Bromoform n-Propylbenzene	mg/kg (ppm)	2	<0.05 <0.05	73 79	64 68	21-156 23-146	13 15
n-Propylbenzene Bromobenzene	mg/kg (ppm) mg/kg (ppm)	2	< 0.05	84	68 73	34-130	15
1,3,5-Trimethylbenzene	mg/kg (ppm)	2	< 0.05	81	70	18-149	15
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	2	< 0.05	76	67	28-140	13
1,2,3-Trichloropropane	mg/kg (ppm)	2	< 0.05	76	66	25-144	14
2-Chlorotoluene	mg/kg (ppm)	2	< 0.05	80	69	31-134	15
4-Chlorotoluene	mg/kg (ppm)	2	< 0.05	78	67	31-136	15
tert-Butylbenzene	mg/kg (ppm)	2	< 0.05	84	72	30-137	15
1,2,4-Trimethylbenzene	mg/kg (ppm)	2	< 0.05	81	70	10-182	15
sec-Butylbenzene	mg/kg (ppm)	2	< 0.05	82	71	23-145	14
p-Isopropyltoluene	mg/kg (ppm)	2	< 0.05	82	70	21-149	16
1,3-Dichlorobenzene	mg/kg (ppm)	2	< 0.05	83	72	30-131	14
1,4-Dichlorobenzene	mg/kg (ppm)	2	< 0.05	84	72	29-129	15
1,2-Dichlorobenzene	mg/kg (ppm)	2	< 0.05	85	74	31-132	14
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2	< 0.5	72	63	11-161	13
1,2,4-Trichlorobenzene	mg/kg (ppm)	2	< 0.25	86	75	22-142	14
Hexachlorobutadiene	mg/kg (ppm)	2	< 0.25	94	84	10-142	11
Naphthalene	mg/kg (ppm)	$\frac{2}{2}$	< 0.05	82	72	14-157	13
1,2,3-Trichlorobenzene	mg/kg (ppm)	Z	< 0.25	89	76	20-144	16

ENVIRONMENTAL CHEMISTS

Date of Report: 03/08/23 Date Received: 02/15/23

Project: 1460-23001-01, F&BI 302203

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory coue. Laboratory co.	are a sempre		Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Dichlorodifluoromethane	mg/kg (ppm)	2	49	10-146
Chloromethane	mg/kg (ppm)	2	62	27-133
Vinyl chloride	mg/kg (ppm)	$\frac{2}{2}$	67 106	22-139
Bromomethane Chloroethane	mg/kg (ppm) mg/kg (ppm)	2	83	38-114 9-163
Trichlorofluoromethane	mg/kg (ppm)	2	91	10-196
Acetone	mg/kg (ppm)	10	68	52-141
1,1-Dichloroethene	mg/kg (ppm)	2	93	47-128
Hexane	mg/kg (ppm)	2	89	43-142
Methylene chloride	mg/kg (ppm)	2	93	10-184
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2	98	60-123
trans-1,2-Dichloroethene	mg/kg (ppm)	2	92	67-129
1,1-Dichloroethane 2,2-Dichloropropane	mg/kg (ppm)	2 2	90 104	68-115 52-170
cis-1.2-Dichloroethene	mg/kg (ppm) mg/kg (ppm)	2	94	52-170 72-127
Chloroform	mg/kg (ppm)	2	97	66-120
2-Butanone (MEK)	mg/kg (ppm)	10	88	30-197
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2	95	56-135
1,1,1-Trichloroethane	mg/kg (ppm)	2	101	62-131
1,1-Dichloropropene	mg/kg (ppm)	2	94	69-128
Carbon tetrachloride	mg/kg (ppm)	2	95	60-139
Benzene	mg/kg (ppm)	2	93	71-118
Trichloroethene	mg/kg (ppm)	$\frac{2}{2}$	94	63-121
1,2-Dichloropropane Bromodichloromethane	mg/kg (ppm) mg/kg (ppm)	2	86 96	72-127 57-126
Dibromomethane	mg/kg (ppm)	2	96	62-123
4-Methyl-2-pentanone	mg/kg (ppm)	10	103	45-145
cis-1,3-Dichloropropene	mg/kg (ppm)	2	90	67-122
Toluene	mg/kg (ppm)	2	90	66-126
trans-1,3-Dichloropropene	mg/kg (ppm)	2	89	72-132
1,1,2-Trichloroethane	mg/kg (ppm)	2	85	64-115
2-Hexanone	mg/kg (ppm)	10	108	33-152
1,3-Dichloropropane Tetrachloroethene	mg/kg (ppm) mg/kg (ppm)	2 2	90 101	72-130 72-114
Dibromochloromethane	mg/kg (ppm)	2	88	55-121
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2	88	74-132
Chlorobenzene	mg/kg (ppm)	2	93	76-111
Ethylbenzene	mg/kg (ppm)	2	94	64-123
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2	93	64-121
m,p-Xylene	mg/kg (ppm)	4	94	78-122
o-Xylene	mg/kg (ppm)	2	94	77-124
Styrene	mg/kg (ppm)	2	93	74-126
Isopropylbenzene Bromoform	mg/kg (ppm) mg/kg (ppm)	$\frac{2}{2}$	99 90	76-127 56-132
n-Propylbenzene	mg/kg (ppm)	2	96	74-124
Bromobenzene	mg/kg (ppm)	2	98	72-122
1,3,5-Trimethylbenzene	mg/kg (ppm)	2	98	76-126
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	2	94	56-143
1,2,3-Trichloropropane	mg/kg (ppm)	2	91	61-137
2-Chlorotoluene	mg/kg (ppm)	2	95	74-121
4-Chlorotoluene	mg/kg (ppm)	2	93	75-122
tert-Butylbenzene 1,2,4-Trimethylbenzene	mg/kg (ppm)	2 2	100 97	73-130 76-125
sec-Butylbenzene	mg/kg (ppm) mg/kg (ppm)	2	98	76-125 71-130
p-Isopropyltoluene	mg/kg (ppm)	2	98	70-132
1,3-Dichlorobenzene	mg/kg (ppm)	2	98	75-121
1,4-Dichlorobenzene	mg/kg (ppm)	2	98	74-117
1,2-Dichlorobenzene	mg/kg (ppm)	2	100	76-121
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2	87	58-138
1,2,4-Trichlorobenzene	mg/kg (ppm)	2	101	64-135
Hexachlorobutadiene	mg/kg (ppm)	2	117	50-153
Naphthalene	mg/kg (ppm)	2 2	94	63-140
1,2,3-Trichlorobenzene	mg/kg (ppm)	2	101	63-138

ENVIRONMENTAL CHEMISTS

Date of Report: 03/08/23 Date Received: 02/15/23

Project: 1460-23001-01, F&BI 302203

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270E

Laboratory Code: 302350-17 1/5 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Naphthalene	mg/kg (ppm)	0.83	0.024	80	82	50-150	2
2-Methylnaphthalene	mg/kg (ppm)	0.83	0.076	80	86	50-150	7
1-Methylnaphthalene	mg/kg (ppm)	0.83	0.042	84	89	50-150	6
Acenaphthylene	mg/kg (ppm)	0.83	< 0.01	96	95	50-150	1
Acenaphthene	mg/kg (ppm)	0.83	< 0.01	87	86	50-150	1
Fluorene	mg/kg (ppm)	0.83	< 0.01	89	90	50-150	1
Phenanthrene	mg/kg (ppm)	0.83	< 0.01	91	89	10-170	2
Anthracene	mg/kg (ppm)	0.83	< 0.01	91	88	50-150	3
Fluoranthene	mg/kg (ppm)	0.83	< 0.01	92	90	10-203	2
Pyrene	mg/kg (ppm)	0.83	< 0.01	90	87	10-208	3
Benz(a)anthracene	mg/kg (ppm)	0.83	< 0.01	92	92	37-146	0
Chrysene	mg/kg (ppm)	0.83	< 0.01	91	91	36-144	0
Benzo(a)pyrene	mg/kg (ppm)	0.83	< 0.01	88	88	40-150	0
Benzo(b)fluoranthene	mg/kg (ppm)	0.83	< 0.01	91	91	45-157	0
Benzo(k)fluoranthene	mg/kg (ppm)	0.83	< 0.01	84	86	50-150	2
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.83	< 0.01	89	77	24-145	14
Dibenz(a,h)anthracene	mg/kg (ppm)	0.83	< 0.01	85	74	31-137	14
Benzo(g,h,i)perylene	mg/kg (ppm)	0.83	< 0.01	83	71	14-141	16

Daboratory Code. Daboratory	Common Sun	ipic i/o	D 4	
Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Naphthalene	mg/kg (ppm)	0.83	83	58-108
2-Methylnaphthalene	mg/kg (ppm)	0.83	86	67-109
1-Methylnaphthalene	mg/kg (ppm)	0.83	89	66-107
Acenaphthylene	mg/kg (ppm)	0.83	100	70-130
Acenaphthene	mg/kg (ppm)	0.83	91	66-112
Fluorene	mg/kg (ppm)	0.83	94	67-117
Phenanthrene	mg/kg (ppm)	0.83	91	70-130
Anthracene	mg/kg (ppm)	0.83	90	70-130
Fluoranthene	mg/kg (ppm)	0.83	94	70-130
Pyrene	mg/kg (ppm)	0.83	88	70-130
Benz(a)anthracene	mg/kg (ppm)	0.83	94	70-130
Chrysene	mg/kg (ppm)	0.83	93	70-130
Benzo(a)pyrene	mg/kg (ppm)	0.83	90	68-120
Benzo(b)fluoranthene	mg/kg (ppm)	0.83	93	69-125
Benzo(k)fluoranthene	mg/kg (ppm)	0.83	86	70-130
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.83	89	67-129
Dibenz(a,h)anthracene	mg/kg (ppm)	0.83	84	67-128
Benzo(g,h,i)perylene	mg/kg (ppm)	0.83	81	67-127

ENVIRONMENTAL CHEMISTS

Date of Report: 03/08/23 Date Received: 02/15/23

Project: 1460-23001-01, F&BI 302203

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS AS AROCLOR 1016/1260 BY EPA METHOD 8082A

Laboratory Code: 302218-02 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Control	RPD
Analyte	Units	Level	(Wet Wt)	MS	MSD	Limits	(Limit 20)
Aroclor 1016	mg/kg (ppm)	0.042	< 0.004	74	77	44-107	4
Aroclor 1260	mg/kg (ppm)	0.042	< 0.004	81	80	38 - 124	1

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Aroclor 1016	mg/kg (ppm)	0.042	88	55-137
Aroclor 1260	mg/kg (ppm)	0.042	89	51 - 150

ENVIRONMENTAL CHEMISTS

Date of Report: 03/08/23 Date Received: 02/15/23

Project: 1460-23001-01, F&BI 302203

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS AS AROCLOR 1016/1260 BY EPA METHOD 8082A

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Aroclor 1016	mg/kg (ppm)	0.25	116	103	47-158	12
Aroclor 1260	mg/kg (ppm)	0.25	114	105	69-147	8

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria, biased high; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The analyte is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits due to sample matrix effects.
- j The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- k The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Ph. (206) 285-8282 Friedman & Bruya, Inc. B07-5 801-2 B02-7 801-3 51-50-11081-1908 DU01-230214-0.5-IS Beport To Lynn Green
Company Every Northwest Phone (523)452-556 Email Tynngaeven-nw.com City, State, ZIP Forthund OR 97293 Address 4.0, Box 14488 Sample ID Received by: / m/luf Received by: Relinquished by: Relinquished by: 6 2 6 2 0 02-19-23 074-12 02-14-23 02-14-23 11:12 02-14-23 02-14-23 | 9:50 Date Sampled 11:70 12:21 t2:07 13:30 Time Sampled SAMPLE CHAIN OF CUSTODY Project specific RLs? - Yes / No REMARKS PROJECT NAME SAMPLERS (signature) 1460-23001-01 1505 1000 1:03 105 505 Sample Type Torday Sei Dhan PRINT NAME # of Jars phone Mons 8 8 <u>න</u> 8 NWTPH-Dx NWTPH-Gx BTEX EPA 802 NWTPH-HCID INVOICE TO Sample received at INALYSES REQUESTED PO# PAHs EPA 8270 Even Northart 02-14-23 FLBI 8 X 8 PCBs EPA 8082 COMPANY RCRA 8 total 02/15/23 MI/ISM Default: Dispose after 30 days □ Other_ □ Archive samples Standard turnaround Rush charges authorized by: □ RUSH_ 3°¢ TURNAROUND TIME SAMPLE DISPOSAL 102/5/23 8) per 1.6 2/20/23 Hold DATE Hold Notes 18:00 TIME 1022

Analytical Laboratory Data Validation Check Sheet

Project Name: 10103 NE Marx - Portland Project Number: 1460-23001-01 Date of Review: 3/9/2023 Lab. Name: F&BI Lab Batch ID #: 302203 **Chain of Custody** 1.) Are all requested analyses reported? \boxtimes yes □no 2.) Were the requested methods used? ⊠yes □no 3.) Trip blank submitted? □yes ⊠no 4.) Field blank submitted? □yes ⊠no **Timing** 5.) Samples extracted within holding times? \boxtimes yes □no □yes If not, are all discrepancies footnoted? □no \boxtimes NA 6.) Analysis performed within holding times? ⊠yes □no If not, are all discrepancies footnoted? □yes □no \boxtimes NA **Quality Assurance/Quality Control** 7.) Are the required reporting limits reported? (MRLs vs MDLs/PQLs) \boxtimes yes □no 8.) Are all reported values above either MRL or MDL? ⊠yes □no 9.) Are all values between the MDL & PQL tagged as trace? □ves □no $\boxtimes NA$ 10a.) Are reporting limits raised for other reason besides high analyte conc.? □yes ⊠no 10b.) If so, are they footnoted? □yes □no $\boxtimes NA$ 11.) Lab method blank completed? \boxtimes yes □no 12.) Lab, Field, or Trip Blank(s) report detections? □ves ⊠no If yes, indicate blank type, chemical(s) and concentration(s): 13.) For inorganics and metals, is there one method blank for each analyte? ⊠yes □no \square NA If not, are all discrepancies footnoted? □ves □no 14.) For VOCs, is there one method blank for each day of analysis? \boxtimes yes □no \square NA □yes If not, are all discrepancies footnoted? □no 15.) For SVOC's, is there one method blank for each extraction batch? \boxtimes yes □no \square NA □yes □no If not, are all discrepancies footnoted? Accuracy 16.) Is there a surrogate spike recovery for all VOC & SVOC samples? ⊠ves □no \square NA Do all surrogate spike recoveries meet accepted criteria? \boxtimes yes □no If not, are all discrepancies footnoted? □yes □no \boxtimes NA 17.) Is there a spike recovery for all Laboratory Control Samples? \boxtimes yes □no \square NA Do all LCS/LCSD spike recoveries meet accepted criteria? ⊠ves □no If not, are all discrepancies footnoted? □yes □no $\boxtimes NA$ 18.) Are all LCS/LCSD RPDs within acceptable limits? \boxtimes yes □no \square NA If not, are all discrepancies footnoted? □yes \square no \boxtimes NA 19.) Are all matrix spike/matrix spike duplicate recoveries within □yes ⊠no \square NA acceptable limits? \square NA If not, are all discrepancies footnoted? \boxtimes ves □no Barium was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful. (b) 20.) Are all matrix spike/matrix spike duplicate RPDs within acceptable limits? □yes ⊠no \square NA

If not, are all discrepancies footnoted?		⊠yes	□no	□NA			
The values reported for dichlorodifluoromethane, chloromethane, trichlorofluoromethane, 1,1-Dichloroethene, and hexane fell outside the control limits established for these analytes. The analytes were not detected therefore the data							
were acceptable. (vo)							
21.) Do all RPD calculations for Field Duplicates meet accepted cri	iteria?	□yes	□no	⊠NA			
Comments:							
The calibration results for acetone, in samples DU01, DU02, B01-2, B02 and the method blank for method 8260D, were outside of acceptance criteria, biased high; or the calibration results for the analyte were outside of acceptance criteria biased high, with a detection for the analyte in the sample. The value reported is an estimate. (ca)							
Samples DU01, DU02, B01, and B02 were diluted. Detection limits were raised, and surrogate recoveries may not be meaningful. (d)							
The presence of methylene chloride, in samples DU01 and DU02, is likely due to laboratory contamination. (lc)							
Samples DU01, DU02, B01, and B02 were received in a container not approved by method 8260D. The values reported should be considered estimates. (pc)							
The chromatographic pattern of samples DU01 and DU02 does no quantitation. (x)	t resemble the diesel	fuel star	dard use	d for			
Initial Review By: <u>LP</u>	Final Review By:	EB					

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Vineta Mills, M.S. Eric Young, B.S.

5500 4th Avenue South Seattle, WA 98108 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

March 8, 2023

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

Dear Mr Green:

Included are the results from the testing of material submitted on February 17, 2023 from the 1460-23001-01, F&BI 302250 project. There are 95 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures

c: Neil Woller, Paul Trone, Evan Bruggeman

ENW0308R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on February 17, 2023 by Friedman & Bruya, Inc. from the Evren Northwest 1460-23001-01, F&BI 302250 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Evren Northwest
302250 -01	GS01-SS
302250 -02	B03-5
302250 -03	B03-7
302250 -03	B04-9-SWI
	B05-9-SWI
302250 -05	
302250 -06	B06-1
302250 -07	B06-9-SWI
302250 -08	B07-5
302250 -09	B07-9-SWI
302250 -10	B08-9-SWI
302250 -11	B09-7-SWI
302250 -12	B10-9-SWI
302250 -13	B11-5-SWI
302250 -14	B12-9-SWI
302250 -15	B04-GW-12.5
302250 -16	B05-GW-12.5
302250 -17	B06-GW-15
302250 -18	B07-GW-15
302250 -19	B08-GW-13
302250 -20	B09-GW-14.5
302250 -21	B10-GW-14.5
302250 -22	B12-GW-230216

The 6020B calibration standard failed the acceptance criteria for arsenic and selenium in the sample B09-GW-14.5. The data were flagged accordingly. The sample was diluted and reanalyzed. Both data sets were reported.

The 8260D matrix spike and matrix spike duplicate failed the relative percent difference for several compounds. The analytes were not detected therefore the data were acceptable.

The 8260D sample B06-1 was taken from a four ounce glass jar. The data were flagged accordingly.

The 8260D calibration standard failed the acceptance criteria for acetone. The data were flagged accordingly.

The 1-methylnaphthalene in the 8270E laboratory control sample and laboratory control sample duplicate exceeded the acceptance criteria. The affected data were flagged accordingly.

All other quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/08/23 Date Received: 02/17/23

Project: 1460-23001-01, F&BI 302250

Date Extracted: 02/17/23 Date Analyzed: 02/17/23

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID

Results Reported on a Dry Weight Basis Results Reported as Not Detected (ND) or Detected (D)

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

Sample ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	Surrogate (% Recovery)
Laboratory ID	Gasonne	<u>Dieser</u>	ileavy on	(Limit 50-150)
B03-5 302250-02	ND	ND	ND	91
B03-7 302250-03	ND	ND	ND	92
B04-9-SWI 302250-04	ND	ND	ND	90
B05-9-SWI 302250-05	ND	ND	ND	91
B06-1 302250-06	ND	ND	D	142
B06-9-SWI 302250-07	ND	ND	ND	92
B07-9-SWI 302250-09	ND	ND	ND	92
B08-9-SWI 302250-10	ND	ND	ND	94
B09-7-SWI 302250-11	ND	ND	ND	93
B10-9-SWI 302250-12	ND	ND	ND	95

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

ENVIRONMENTAL CHEMISTS

Date of Report: 03/08/23 Date Received: 02/17/23

Project: 1460-23001-01, F&BI 302250

Date Extracted: 02/17/23 Date Analyzed: 02/17/23

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID

Results Reported on a Dry Weight Basis Results Reported as Not Detected (ND) or Detected (D)

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

Sample ID Laboratory ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	Surrogate (% Recovery) (Limit 50-150)
B11-5-SWI 302250-13	ND	ND	ND	93
B12-9-SWI 302250-14	ND	ND	ND	91
Method Blank	ND	ND	ND	89

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

ENVIRONMENTAL CHEMISTS

Date of Report: 03/08/23 Date Received: 02/17/23

Project: 1460-23001-01, F&BI 302250

Date Extracted: 02/21/23 Date Analyzed: 02/21/23

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Gasoline Range	Surrogate (% Recovery) (Limit 50-150)
B04-GW-12.5 302250-15	<100	104
B05-GW-12.5 302250-16	<100	105
B06-GW-15 302250-17	<100	106
B07-GW-15 302250-18	<100	102
B08-GW-13 302250-19	<100	107
B09-GW-14.5 302250-20	<100	102
B10-GW-14.5	<100	107
B12-GW-230216 302250-22	120	109
Method Blank 03-242 MB	<100	102

ENVIRONMENTAL CHEMISTS

Date of Report: 03/08/23 Date Received: 02/17/23

Project: 1460-23001-01, F&BI 302250

Date Extracted: 02/21/23 Date Analyzed: 02/21/23

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND RESIDUAL RANGE USING METHOD NWTPH-Dx

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	$rac{ ext{Diesel Range}}{ ext{(C}_{10} ext{-C}_{25} ext{)}}$	Residual Range (C25-C36)	Surrogate (% Recovery) (Limit 50-150)
B06-1 302250-06	2,000 x	7,200	83
Method Blank 03-446 MB2	<50	<250	85

ENVIRONMENTAL CHEMISTS

Date of Report: 03/08/23 Date Received: 02/17/23

Project: 1460-23001-01, F&BI 302250

Date Extracted: 02/20/23 Date Analyzed: 02/20/23

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND RESIDUAL RANGE USING METHOD NWTPH-Dx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	$\frac{\text{Diesel Range}}{(\text{C}_{10}\text{-C}_{25})}$	Residual Range (C ₂₅ -C ₃₆)	Surrogate (% Recovery) (Limit 41-152)
B04-GW-12.5 302250-15	<50	<250	54
B05-GW-12.5 302250-16	<50	<250	80
B06-GW-15 302250-17	890 x	<250	ip
B07-GW-15 302250-18	1,300 x	<250	ip
B08-GW-13 302250-19	340 x	<250	ip
B09-GW-14.5 302250-20	420 x	<250	ip
B10-GW-14.5	310 x	<250	ip
B12-GW-230216 302250-22	1,100 x	6,800	72
Method Blank 03-440 MB	<50	<250	110

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID: B04-GW-12.5 Client: Evren Northwest

Date Received: 02/17/23 Project: 1460-23001-01, F&BI 302250

02/22/23 Lab ID: Date Extracted: 302250-15Date Analyzed: 02/22/23 Data File: 302250-15.210 Matrix: Water Instrument: ICPMS2 ug/L (ppb) Units: SPOperator:

Analyte: Concentration ug/L (ppb)

 Barium
 28.0

 Cadmium
 <1</td>

 Chromium
 <1</td>

 Lead
 <1</td>

 Mercury
 <1</td>

 Silver
 <1</td>

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID: B04-GW-12.5 Client: Evren Northwest

Date Received: 02/17/23 Project: 1460-23001-01, F&BI 302250

 Date Extracted:
 02/22/23
 Lab ID:
 302250-15 x5

 Date Analyzed:
 02/23/23
 Data File:
 302250-15 x5.153

Matrix: Water Instrument: ICPMS2 Units: ug/L (ppb) Operator: SP

Concentration

Analyte: ug/L (ppb)

Arsenic <5 Selenium <5

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID: B05-GW-12.5 Client:	Evren Northwest
--------------------------------	-----------------

Date Received: 02/17/23 Project: 1460-23001-01, F&BI 302250

Lab ID: Date Extracted: 02/22/23 302250-16 Date Analyzed: 02/22/23 Data File: 302250-16.213 Matrix: Water Instrument: ICPMS2 Units: ug/L (ppb) SPOperator:

 $\begin{array}{c} \text{Concentration} \\ \text{Analyte:} \\ \text{ug/L (ppb)} \end{array}$

 Barium
 10.9

 Cadmium
 <1</td>

 Chromium
 <1</td>

 Lead
 <1</td>

 Mercury
 <1</td>

 Silver
 <1</td>

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID: B05-GW-12.5 Client: Evren Northwest

Date Received: 02/17/23 Project: 1460-23001-01, F&BI 302250

 Date Extracted:
 02/22/23
 Lab ID:
 302250-16 x5

 Date Analyzed:
 02/23/23
 Data File:
 302250-16 x5.154

 $\begin{array}{cccc} \text{Matrix:} & \text{Water} & \text{Instrument:} & \text{ICPMS2} \\ \text{Units:} & \text{ug/L (ppb)} & \text{Operator:} & \text{SP} \end{array}$

Concentration

Analyte: ug/L (ppb)

Arsenic <5 Selenium <5

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID: B06-GW-15	Client:	Evren Northwest
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Date Received: 02/17/23 Project: 1460-23001-01, F&BI 302250

Lab ID: Date Extracted: 02/22/23 302250-17Date Analyzed: 02/22/23 Data File: 302250 - 17.214Matrix: Water Instrument: ICPMS2 Units: ug/L (ppb) SPOperator:

 $\begin{array}{c} \text{Concentration} \\ \text{Analyte:} \\ \text{ug/L (ppb)} \end{array}$

 Barium
 9.13

 Cadmium
 <1</td>

 Chromium
 <1</td>

 Lead
 <1</td>

 Mercury
 <1</td>

 Silver
 <1</td>

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID: B06-GW-15 Client: Evren Northwest

Date Received: 02/17/23 Project: 1460-23001-01, F&BI 302250

 Date Extracted:
 02/22/23
 Lab ID:
 302250-17 x5

 Date Analyzed:
 02/23/23
 Data File:
 302250-17 x5.159

Matrix: Water Instrument: ICPMS2 Units: ug/L (ppb) Operator: SP

Concentration

Analyte: ug/L (ppb)

Arsenic <5 Selenium <5

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Date Received: 02/17/23 Project: 1460-23001-01, F&BI 302250

Lab ID: Date Extracted: 02/22/23 302250-18 Date Analyzed: 02/22/23 Data File: 302250-18.215 Matrix: Water Instrument: ICPMS2 Units: ug/L (ppb) SPOperator:

 $\begin{array}{c} \text{Concentration} \\ \text{Analyte:} \\ \text{ug/L (ppb)} \end{array}$

 Barium
 60.6

 Cadmium
 <1</td>

 Chromium
 <1</td>

 Lead
 <1</td>

 Mercury
 <1</td>

 Silver
 <1</td>

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID: B07-GW-15 Client: Evren Northwest

Date Received: 02/17/23 Project: 1460-23001-01, F&BI 302250

 Date Extracted:
 02/22/23
 Lab ID:
 302250-18 x5

 Date Analyzed:
 02/23/23
 Data File:
 302250-18 x5.160

Matrix: Water Instrument: ICPMS2 Units: ug/L (ppb) Operator: SP

Concentration

Analyte: ug/L (ppb)

Arsenic <5 Selenium <5

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID: B08-GW-13	Client:	Evren Northwest
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Date Received: 02/17/23 Project: 1460-23001-01, F&BI 302250

Lab ID: Date Extracted: 02/22/23 302250-19 Date Analyzed: 02/22/23 Data File: 302250-19.216 Matrix: Water Instrument: ICPMS2 Units: ug/L (ppb) SPOperator:

 $\begin{array}{c} \text{Concentration} \\ \text{Analyte:} \\ \text{ug/L (ppb)} \end{array}$

 Barium
 49.2

 Cadmium
 <1</td>

 Chromium
 <1</td>

 Lead
 <1</td>

 Mercury
 <1</td>

 Silver
 <1</td>

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID: B08-GW-13 Client: Evren Northwest

Date Received: 02/17/23 Project: 1460-23001-01, F&BI 302250

 Date Extracted:
 02/22/23
 Lab ID:
 302250-19 x5

 Date Analyzed:
 02/23/23
 Data File:
 302250-19 x5.161

Matrix: Water Instrument: ICPMS2 Units: ug/L (ppb) Operator: SP

Concentration

Analyte: ug/L (ppb)

Arsenic <5 Selenium <5

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID: B09-GW-14.5 Client: Evren Northwest

Date Received: 02/17/23 Project: 1460-23001-01, F&BI 302250

02/22/23 Lab ID: Date Extracted: 302250-20 Date Analyzed: 02/22/23 Data File: 302250-20.217 Matrix: Water Instrument: ICPMS2 ug/L (ppb) Units: SPOperator:

Concentration

Analyte: ug/L (ppb)

 Arsenic
 3.98 ca

 Cadmium
 1.44

 Mercury
 <1 J</td>

 Selenium
 1.66 ca

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	B09-GW-14.5	Client:	Evren Northwest

Date Received: 02/17/23 Project: 1460-23001-01, F&BI 302250

 $\begin{array}{ccccc} \text{Matrix:} & \text{Water} & \text{Instrument:} & \text{ICPMS2} \\ \text{Units:} & \text{ug/L (ppb)} & \text{Operator:} & \text{SP} \end{array}$

<5

<5

Analyte:	Concentration ug/L (ppb)
Arsenic	<5
Chromium	32.2
Lead	8.81
Mercury	<5

Selenium

Silver

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID: B09-GW-14.5 Client: Evren Northwest

Date Received: 02/17/23 Project: 1460-23001-01, F&BI 302250

Date Extracted: 02/22/23 Lab ID: 302250-20 x100
Date Analyzed: 02/27/23 Data File: 302250-20 x100.171

Matrix: Water Instrument: ICPMS2 Units: ug/L (ppb) Operator: MG

Concentration

Analyte: ug/L (ppb)

Barium 1,870

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID: B10-GW-14.5 Client: Evren	n Northwest
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Date Received: 02/17/23 Project: 1460-23001-01, F&BI 302250

Lab ID: Date Extracted: 02/22/23 302250-21Date Analyzed: 02/22/23 Data File: 302250 - 21.218Matrix: Water Instrument: ICPMS2 Units: ug/L (ppb) SPOperator:

 $\begin{array}{c} \text{Concentration} \\ \text{Analyte:} \\ \text{ug/L (ppb)} \end{array}$

 Barium
 20.3

 Cadmium
 <1</td>

 Chromium
 <1</td>

 Lead
 <1</td>

 Mercury
 <1</td>

 Silver
 <1</td>

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID: B10-GW-14.5 Client: Evren Northwest

Date Received: 02/17/23 Project: 1460-23001-01, F&BI 302250

 Date Extracted:
 02/22/23
 Lab ID:
 302250-21 x5

 Date Analyzed:
 02/23/23
 Data File:
 302250-21 x5.162

 $\begin{array}{cccc} \text{Matrix:} & \text{Water} & \text{Instrument:} & \text{ICPMS2} \\ \text{Units:} & \text{ug/L (ppb)} & \text{Operator:} & \text{SP} \end{array}$

Concentration

Analyte: ug/L (ppb)

Arsenic <5 Selenium <5

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Date Received: 02/17/23 Project: 1460-23001-01, F&BI 302250

Lab ID: Date Extracted: 02/22/23 302250-22 Date Analyzed: 02/22/23 Data File: 302250-22.219 Matrix: Water Instrument: ICPMS2 Units: ug/L (ppb) SPOperator:

 $\begin{array}{c} \text{Concentration} \\ \text{Analyte:} \\ \text{ug/L (ppb)} \end{array}$

 Barium
 21.4

 Cadmium
 <1</td>

 Chromium
 <1</td>

 Lead
 <1</td>

 Mercury
 <1</td>

 Silver
 <1</td>

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID: B12-GW-230216 Client: Evren Northwest

Date Received: 02/17/23 Project: 1460-23001-01, F&BI 302250

 Date Extracted:
 02/22/23
 Lab ID:
 302250-22 x5

 Date Analyzed:
 02/23/23
 Data File:
 302250-22 x5.163

Concentration

Analyte: ug/L (ppb)

Arsenic <5 Selenium <5

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID: Method Blank Client: Evre	n Northwest
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Date Received: NA Project: 1460-23001-01, F&BI 302250

Lab ID: Date Extracted: 02/22/23 I3-129 mbDate Analyzed: 02/22/23 Data File: I3-129 mb.075 Matrix: Water Instrument: ICPMS2 Units: ug/L (ppb) Operator: SP

	Concentration
Analyte:	ug/L (ppb)

Arsenic	<1
Barium	<1
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1
Selenium	<1
Silver	<1

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID: B03-5 Client: Evren Northwest

Date Received: 02/17/23 Project: 1460-23001-01, F&BI 302250

 Date Extracted:
 02/21/23
 Lab ID:
 302250-02

 Date Analyzed:
 02/21/23
 Data File:
 302250-02.103

 Matrix:
 Soil
 Instrument:
 ICPMS2

<1

Units: mg/kg (ppm) Dry Weight Operator: SP

 Concentration mg/kg (ppm)

 Arsenic
 5.73

 Barium
 135

 Cadmium
 <1</td>

 Lead
 10.2

 Mercury
 <1</td>

 Selenium
 <1</td>

Silver

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID: B03-5 Client: Evren Northwest

Date Received: 02/17/23 Project: 1460-23001-01, F&BI 302250

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Chromium 14.0

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Date Received: 02/17/23 Project: 1460-23001-01, F&BI 302250

 Date Extracted:
 02/21/23
 Lab ID:
 302250-03

 Date Analyzed:
 02/21/23
 Data File:
 302250-03.125

 Matrix:
 Soil
 Instrument:
 ICPMS2

<1

Units: mg/kg (ppm) Dry Weight Operator: SP

 Concentration

 Analyte:
 mg/kg (ppm)

 Arsenic
 4.05

 Barium
 148

 Cadmium
 <1</td>

 Lead
 5.53

 Mercury
 <1</td>

 Selenium
 <1</td>

Silver

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID: B03-7 Client: Evren Northwest

Date Received: 02/17/23 Project: 1460-23001-01, F&BI 302250

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Chromium 20.0

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

	Client ID:	B04-9-SWI	Client:	Evren Northwest
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Date Received: 02/17/23 1460-23001-01, F&BI 302250

Project: Lab ID: Date Extracted: 02/21/23 302250-04 Date Analyzed: 02/21/23 Data File: 302250-04.126 Matrix: Instrument: Soil ICPMS2

<1

Units: mg/kg (ppm) Dry Weight Operator: SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	3.23
Barium	103
Cadmium	<1
Lead	7.34
Mercury	<1
Selenium	<1

Silver

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID: B04-9-SWI Client: Evren Northwest

Date Received: 02/17/23 Project: 1460-23001-01, F&BI 302250

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Chromium 11.5

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B05-9-SWI	Client:	Evren Northwest

Date Received: 02/17/23 Project: 1460-23001-01, F&BI 302250

 Date Extracted:
 02/21/23
 Lab ID:
 302250-05

 Date Analyzed:
 02/21/23
 Data File:
 302250-05.127

 Matrix:
 Soil
 Instrument:
 ICPMS2

<1

Units: mg/kg (ppm) Dry Weight Operator: SP

 Concentration

 Analyte:
 mg/kg (ppm)

 Arsenic
 3.92

 Barium
 108

 Cadmium
 <1</td>

 Lead
 6.24

 Mercury
 <1</td>

 Selenium
 <1</td>

Silver

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID: B05-9-SWI Client: Evren Northwest

Date Received: 02/17/23 Project: 1460-23001-01, F&BI 302250

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Dry Weight Operator. S

 $\begin{array}{cc} & & Concentration \\ Analyte: & & mg/kg \ (ppm) \end{array}$

Chromium 10.2

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B06-1	Client:	Evren Northwest

Date Received: 02/17/23 Project: 1460-23001-01, F&BI 302250

 Date Extracted:
 02/21/23
 Lab ID:
 302250-06

 Date Analyzed:
 02/21/23
 Data File:
 302250-06.128

 Matrix:
 Soil
 Instrument:
 ICPMS2

<1

Units: mg/kg (ppm) Dry Weight Operator: SP

 Concentration mg/kg (ppm)

 Arsenic
 3.23

 Barium
 88.8

 Cadmium
 <1</td>

 Lead
 34.4

 Mercury
 <1</td>

 Selenium
 <1</td>

Silver

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID: B06-1 Client: Evren Northwest

Date Received: 02/17/23 Project: 1460-23001-01, F&BI 302250

 Date Extracted:
 02/21/23
 Lab ID:
 302250-06 x5

 Date Analyzed:
 02/22/23
 Data File:
 302250-06 x5.194

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Chromium 11.8

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID: B06-9-SWI Client: Evren Northwest

Date Received: 02/17/23 Project: 1460-23001-01, F&BI 302250

 Date Extracted:
 02/21/23
 Lab ID:
 302250-07

 Date Analyzed:
 02/21/23
 Data File:
 302250-07.129

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration mg/kg (ppm)

 Arsenic
 2.67

 Barium
 89.6

 Cadmium
 <1</td>

 Lead
 4.06

 Mercury
 <1</td>

 Selenium
 <1</td>

 Silver
 <1</td>

Analyte:

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID: B06-9-SWI Client: Evren Northwest

Date Received: 02/17/23 Project: 1460-23001-01, F&BI 302250

 Date Extracted:
 02/21/23
 Lab ID:
 302250-07 x5

 Date Analyzed:
 02/22/23
 Data File:
 302250-07 x5.132

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Chromium 18.8

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID: B07-9-SWI Client:	Evren Northwest
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Date Received: 02/17/23 Project: 1460-23001-01, F&BI 302250

 Date Extracted:
 02/21/23
 Lab ID:
 302250-09

 Date Analyzed:
 02/21/23
 Data File:
 302250-09.130

 Matrix:
 Soil
 Instrument:
 ICPMS2

<1

<1

Units: mg/kg (ppm) Dry Weight Operator: SP

 $\begin{array}{ccc} & & & Concentration \\ Analyte: & & mg/kg \ (ppm) \end{array}$ $\begin{array}{cccc} Arsenic & & 4.12 \\ Barium & & 95.3 \\ Cadmium & & <1 \\ Lead & & 4.76 \\ Mercury & & <1 \end{array}$

Selenium

Silver

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID: B07-9-SWI Client: Evren Northwest

Date Received: 02/17/23 Project: 1460-23001-01, F&BI 302250

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Chromium 16.5

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Cheff ID. Doo-5-5 WI Cheff. Evien Northwest	Client ID:	B08-9-SWI	Client:	Evren Northwest
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Date Received: 02/17/23 Project: 1460-23001-01, F&BI 302250

 Date Extracted:
 02/21/23
 Lab ID:
 302250-10

 Date Analyzed:
 02/21/23
 Data File:
 302250-10.131

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Analyte: Concentration mg/kg (ppm)

 Arsenic
 6.92

 Barium
 92.5

 Cadmium
 <1</td>

 Lead
 5.93

 Mercury
 <1</td>

 Selenium
 <1</td>

 Silver
 <1</td>

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID: B08-9-SWI Client: **Evren Northwest**

Date Received: 02/17/23 Project: 1460-23001-01, F&BI 302250

02/21/23 Lab ID: Date Extracted: 302250-10 x5Date Analyzed: 02/22/23 Data File: 302250-10 x5.136

Matrix: Soil Instrument: ICPMS2 Units: SP

mg/kg (ppm) Dry Weight Operator:

Concentration

Analyte: mg/kg (ppm)

Chromium 18.9

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Date Received: 02/17/23 Project: 1460-23001-01, F&BI 302250

 Date Extracted:
 02/21/23
 Lab ID:
 302250-11

 Date Analyzed:
 02/21/23
 Data File:
 302250-11.134

 Matrix:
 Soil
 Instrument:
 ICPMS2

<1

Units: mg/kg (ppm) Dry Weight Operator: SP

 Concentration mg/kg (ppm)

 Arsenic
 5.23

 Barium
 149

 Cadmium
 <1</td>

 Lead
 6.62

 Mercury
 <1</td>

 Selenium
 <1</td>

Silver

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID: B09-7-SWI Client: Evren Northwest

Date Received: 02/17/23 Project: 1460-23001-01, F&BI 302250

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

n/ Bij weight operator.

Analyte: Concentration mg/kg (ppm)

Chromium 20.4

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID: B10-9-SWI Client: Evren Northwest

Date Received: 02/17/23 Project: 1460-23001-01, F&BI 302250

 Date Extracted:
 02/21/23
 Lab ID:
 302250-12

 Date Analyzed:
 02/21/23
 Data File:
 302250-12.135

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Analyte: Concentration mg/kg (ppm)

 Arsenic
 5.91

 Barium
 93.2

 Cadmium
 <1</td>

 Lead
 5.91

 Mercury
 <1</td>

 Selenium
 <1</td>

 Silver
 <1</td>

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID: B10-9-SWI Client: Evren Northwest

Date Received: 02/17/23 Project: 1460-23001-01, F&BI 302250

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Chromium 22.1

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID: B11-5-SWI Client: Evren Northwest

Date Received: 02/17/23 Project: 1460-23001-01, F&BI 302250

Units: mg/kg (ppm) Dry Weight Operator: SP

 $\begin{array}{cc} & & Concentration \\ Analyte: & & mg/kg \ (ppm) \end{array}$

 Arsenic
 2.65

 Barium
 158

 Cadmium
 <1</td>

 Lead
 8.62

 Mercury
 <1</td>

 Selenium
 <1</td>

 Silver
 <1</td>

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID: B11-5-SWI Client: Evren Northwest

Date Received: 02/17/23 Project: 1460-23001-01, F&BI 302250

 Date Extracted:
 02/21/23
 Lab ID:
 302250-13 x5

 Date Analyzed:
 02/22/23
 Data File:
 302250-13 x5.141

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

n) Dry weight Operator. Sr

 $\begin{array}{cc} & & Concentration \\ Analyte: & & mg/kg \ (ppm) \end{array}$

Chromium 19.0

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID: B12-9-SWI Client: Evren Northwest

Date Received: 02/17/23 Project: 1460-23001-01, F&BI 302250

 Date Extracted:
 02/21/23
 Lab ID:
 302250-14

 Date Analyzed:
 02/21/23
 Data File:
 302250-14.137

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Analyte: Concentration mg/kg (ppm)

 Arsenic
 2.02

 Barium
 74.7

 Cadmium
 <1</td>

 Lead
 2.72

 Mercury
 <1</td>

 Selenium
 <1</td>

 Silver
 <1</td>

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID: B12-9-SWI Client: Evren Northwest

Date Received: 02/17/23 Project: 1460-23001-01, F&BI 302250

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

a) Biy weight operator.

Analyte: Concentration mg/kg (ppm)

Chromium 5.42

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID: Method Blank Client: Evre	en Northwest
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Date Received: NA Project: 1460-23001-01, F&BI 302250

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration mg/kg (ppm)

Arsenic <1 Barium <1 Cadmium <1 Chromium <1 Lead <1 Mercury <1 Selenium <1 Silver <1

Analyte:

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID: B06-1 pc Client: Evren Northwest

Date Received: 02/17/23 Project: 1460-23001-01, F&BI 302250

03/01/23 Lab ID: Date Extracted: 302250-06 Date Analyzed: 03/02/23 Data File: 030225.DMatrix: Soil Instrument: GCMS4 Units: mg/kg (ppm) Dry Weight Operator: lm

 Surrogates:
 % Recovery:
 Limit:
 Limit:

 1,2-Dichloroethane-d4
 98
 90
 109

 Toluene-d8
 101
 89
 112

 4-Bromofluorobenzene
 98
 84
 115

	Concentration		Concentration
Compounds:	mg/kg (ppm)	Compounds:	mg/kg (ppm)
Dichlorodifluoromethane	< 0.5	1,3-Dichloropropane	< 0.05
Chloromethane	< 0.5	Tetrachloroethene	0.041
Vinyl chloride	< 0.05	Dibromochloromethane	< 0.05
Bromomethane	< 0.5	1,2-Dibromoethane (EDB)	< 0.05
Chloroethane	< 0.5	Chlorobenzene	< 0.05
Trichlorofluoromethane	< 0.5	Ethylbenzene	< 0.05
Acetone	<5 ca	1,1,1,2-Tetrachloroethane	< 0.05
1,1-Dichloroethene	< 0.05	m,p-Xylene	< 0.1
Hexane	< 0.25	o-Xylene	< 0.05
Methylene chloride	< 0.5	Styrene	< 0.05
Methyl t-butyl ether (MTBE)	< 0.05	Isopropylbenzene	< 0.05
trans-1,2-Dichloroethene	< 0.05	Bromoform	< 0.05
1,1-Dichloroethane	< 0.05	n-Propylbenzene	< 0.05
2,2-Dichloropropane	< 0.05	Bromobenzene	< 0.05
cis-1,2-Dichloroethene	< 0.05	1,3,5-Trimethylbenzene	< 0.05
Chloroform	< 0.05	1,1,2,2-Tetrachloroethane	< 0.05
2-Butanone (MEK)	<1	1,2,3-Trichloropropane	< 0.05
1,2-Dichloroethane (EDC)	< 0.05	2-Chlorotoluene	< 0.05
1,1,1-Trichloroethane	< 0.05	4-Chlorotoluene	< 0.05
1,1-Dichloropropene	< 0.05	tert-Butylbenzene	< 0.05
Carbon tetrachloride	< 0.05	1,2,4-Trimethylbenzene	< 0.05
Benzene	< 0.03	sec-Butylbenzene	< 0.05
Trichloroethene	< 0.02	p-Isopropyltoluene	< 0.05
1,2-Dichloropropane	< 0.05	1,3-Dichlorobenzene	< 0.05
Bromodichloromethane	< 0.05	1,4-Dichlorobenzene	< 0.05
Dibromomethane	< 0.05	1,2-Dichlorobenzene	< 0.05
4-Methyl-2-pentanone	<1	1,2-Dibromo-3-chloropropane	< 0.5
cis-1,3-Dichloropropene	< 0.05	1,2,4-Trichlorobenzene	< 0.25
Toluene	< 0.05	Hexachlorobutadiene	< 0.25
trans-1,3-Dichloropropene	< 0.05	Naphthalene	< 0.05
1,1,2-Trichloroethane	< 0.05	1,2,3-Trichlorobenzene	< 0.25
2-Hexanone	< 0.5		

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID: Method Blank Client: Evren Northwest

Date Received: Not Applicable Project: 1460-23001-01, F&BI 302250

03/01/23 Lab ID: Date Extracted: 03-0359 mbDate Analyzed: 03/01/23 Data File: 030113.DMatrix: Soil Instrument: GCMS4 Units: mg/kg (ppm) Dry Weight Operator: lm

Upper Lower Surrogates: % Recovery: Limit: Limit: 1,2-Dichloroethane-d4 98 90 109 Toluene-d8 100 89 112 4-Bromofluorobenzene 96 84 115

	Concentration		Concentration
Compounds:	mg/kg (ppm)	Compounds:	mg/kg (ppm)
Dichlorodifluoromethane	< 0.5	1,3-Dichloropropane	< 0.05
Chloromethane	< 0.5	Tetrachloroethene	< 0.025
Vinyl chloride	< 0.05	Dibromochloromethane	< 0.05
Bromomethane	< 0.5	1,2-Dibromoethane (EDB)	< 0.05
Chloroethane	< 0.5	Chlorobenzene	< 0.05
Trichlorofluoromethane	< 0.5	Ethylbenzene	< 0.05
Acetone	<5 ca	1,1,1,2-Tetrachloroethane	< 0.05
1,1-Dichloroethene	< 0.05	m,p-Xylene	< 0.1
Hexane	< 0.25	o-Xylene	< 0.05
Methylene chloride	< 0.5	Styrene	< 0.05
Methyl t-butyl ether (MTBE)	< 0.05	Isopropylbenzene	< 0.05
trans-1,2-Dichloroethene	< 0.05	Bromoform	< 0.05
1,1-Dichloroethane	< 0.05	n-Propylbenzene	< 0.05
2,2-Dichloropropane	< 0.05	Bromobenzene	< 0.05
cis-1,2-Dichloroethene	< 0.05	1,3,5-Trimethylbenzene	< 0.05
Chloroform	< 0.05	1,1,2,2-Tetrachloroethane	< 0.05
2-Butanone (MEK)	<1	1,2,3-Trichloropropane	< 0.05
1,2-Dichloroethane (EDC)	< 0.05	2-Chlorotoluene	< 0.05
1,1,1-Trichloroethane	< 0.05	4-Chlorotoluene	< 0.05
1,1-Dichloropropene	< 0.05	tert-Butylbenzene	< 0.05
Carbon tetrachloride	< 0.05	1,2,4-Trimethylbenzene	< 0.05
Benzene	< 0.03	sec-Butylbenzene	< 0.05
Trichloroethene	< 0.02	p-Isopropyltoluene	< 0.05
1,2-Dichloropropane	< 0.05	1,3-Dichlorobenzene	< 0.05
Bromodichloromethane	< 0.05	1,4-Dichlorobenzene	< 0.05
Dibromomethane	< 0.05	1,2-Dichlorobenzene	< 0.05
4-Methyl-2-pentanone	<1	1,2-Dibromo-3-chloropropane	< 0.5
cis-1,3-Dichloropropene	< 0.05	1,2,4-Trichlorobenzene	< 0.25
Toluene	< 0.05	Hexachlorobutadiene	< 0.25
trans-1,3-Dichloropropene	< 0.05	Naphthalene	< 0.05
1,1,2-Trichloroethane	< 0.05	1,2,3-Trichlorobenzene	< 0.25
2-Hexanone	< 0.5		

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

	Client Sample ID:	B04-GW-12.5	Client:	Evren Northwest
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 Date Received:
 02/17/23
 Project:
 1460-23001-01, F&BI 302250

 Date Extracted:
 02/21/23
 Lab ID:
 302250-15

Date Extracted: 02/21/23 Lab ID: 302250-13
Date Analyzed: 02/21/23 Data File: 022120.D
Matrix: Water Instrument: GCMS13
Units: ug/L (ppb) Operator: lm

		Lower	Opper
Surrogates:	% Recovery:	Limit:	Limit:
1,2-Dichloroethane-d4	93	71	132
Toluene-d8	95	68	139
4-Bromofluorobenzene	103	62	136

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	2.3
Vinyl chloride	< 0.02	Dibromochloromethane	< 0.5
Bromomethane	<5	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	< 50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<5	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<5
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	< 0.2
2-Butanone (MEK)	<20	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	< 0.2	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	< 0.5	1,2,4-Trimethylbenzene	<1
Benzene	< 0.35	sec-Butylbenzene	<1
Trichloroethene	< 0.5	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	< 0.5	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	< 0.4	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	< 0.5
trans-1,3-Dichloropropene	< 0.4	Naphthalene	<1
1,1,2-Trichloroethane	< 0.5	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID: B05-GW-12.5 Clie	ent: Evren Northwest	-
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Date Received: 02/17/23 Project: 1460-23001-01, F&BI 302250

Lab ID: Date Extracted: 302250-16 02/21/23 Date Analyzed: 02/21/23 Data File: 022121.DMatrix: Instrument: Water GCMS13 Units: ug/L (ppb) Operator: lm

		Lower	Upper
Surrogates:	% Recovery:	Limit:	Limit:
1,2-Dichloroethane-d4	100	71	132
Toluene-d8	100	68	139
4-Bromofluorobenzene	102	62	136

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	< 0.02	Dibromochloromethane	< 0.5
Bromomethane	<5	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	< 50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<5	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<5
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	< 0.2
2-Butanone (MEK)	<20	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	< 0.2	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	< 0.5	1,2,4-Trimethylbenzene	<1
Benzene	< 0.35	sec-Butylbenzene	<1
Trichloroethene	< 0.5	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	< 0.5	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	< 0.4	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	< 0.5
trans-1,3-Dichloropropene	< 0.4	Naphthalene	<1
1,1,2-Trichloroethane	< 0.5	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID: B06-GW-15 Client: Evren Northwest

Date Received: 02/17/23 Project: 1460-23001-01, F&BI 302250 Date Extracted: 02/21/23 Lab ID: 302250-17

 Date Extracted:
 02/21/23
 Lab ID:
 302250-17

 Date Analyzed:
 02/22/23
 Data File:
 022148.D

 Matrix:
 Water
 Instrument:
 GCMS13

 Units:
 ug/L (ppb)
 Operator:
 lm

		Lower	Opper
Surrogates:	% Recovery:	Limit:	Limit:
1,2-Dichloroethane-d4	90	71	132
Toluene-d8	92	68	139
4-Bromofluorobenzene	101	62	136

	Concentration		Concentration
Compounds:	ug/L (ppb)	Compounds:	ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	< 0.02	Dibromochloromethane	< 0.5
Bromomethane	<5	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	< 50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<5	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<5
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	< 0.2
2-Butanone (MEK)	<20	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	< 0.2	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	< 0.5	1,2,4-Trimethylbenzene	<1
Benzene	< 0.35	sec-Butylbenzene	<1
Trichloroethene	< 0.5	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	< 0.5	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	< 0.4	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	< 0.5
trans-1,3-Dichloropropene	< 0.4	Naphthalene	<1
1,1,2-Trichloroethane	< 0.5	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

	Client Sample ID:	B07-GW-15	Client:	Evren Northwest
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Project: Date Received: 1460-23001-01, F&BI 302250 02/17/23Lab ID: Date Extracted: 302250-18 02/21/23Date Analyzed: 02/22/23 Data File: 022149.DMatrix: Instrument: GCMS13 Water

Units: ug/L (ppb) Operator: lm

		Lower	Upper
Surrogates:	% Recovery:	Limit:	Limit:
1,2-Dichloroethane-d4	96	71	132
Toluene-d8	101	68	139
4-Bromofluorobenzene	100	62	136

	Concentration		Concentration
Compounds:	ug/L (ppb)	Compounds:	ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	< 0.02	Dibromochloromethane	< 0.5
Bromomethane	<5	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	< 50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<5	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<5
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	< 0.2
2-Butanone (MEK)	<20	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	< 0.2	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	< 0.5	1,2,4-Trimethylbenzene	<1
Benzene	< 0.35	sec-Butylbenzene	<1
Trichloroethene	< 0.5	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	< 0.5	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	< 0.4	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	< 0.5
trans-1,3-Dichloropropene	< 0.4	Naphthalene	<1
1,1,2-Trichloroethane	< 0.5	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Chefit Sample ID. Duo-Gw-15 Chefit. Evren North	Client Sample ID:	B08-GW-13	Client:	Evren Northwest
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 Date Received:
 02/17/23
 Project:
 1460-23001-01, F&BI 302250

 Date Extracted:
 02/21/23
 Lab ID:
 302250-19

 Date Analyzed:
 02/22/23
 Data File:
 022150.D

 Matrix:
 Water
 Instrument:
 GCMS13

Units: ug/L (ppb) Operator: lm

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4 Toluene-d8 4-Bromofluorobenzene	93 101 102	68 62	132 139 136

	Concentration		Concentration
Compounds:	ug/L (ppb)	Compounds:	ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	< 0.02	Dibromochloromethane	< 0.5
Bromomethane	<5	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	< 50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<5	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<5
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	< 0.2
2-Butanone (MEK)	<20	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	< 0.2	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	< 0.5	1,2,4-Trimethylbenzene	<1
Benzene	< 0.35	sec-Butylbenzene	<1
Trichloroethene	< 0.5	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	< 0.5	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	< 0.4	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	< 0.5
trans-1,3-Dichloropropene	< 0.4	Naphthalene	<1
1,1,2-Trichloroethane	< 0.5	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	B09-GW-14.5	Client:	Evren Northwest

Date Received: 02/17/23 Project: 1460-23001-01, F&BI 302250
Date Extracted: 02/21/23 Lab ID: 302250-20

Date Extracted:02/21/23Lab ID:302250-20Date Analyzed:02/22/23Data File:022151.DMatrix:WaterInstrument:GCMS13Units:ug/L (ppb)Operator:lm

		Lower	Opper
Surrogates:	% Recovery:	Limit:	Limit:
1,2-Dichloroethane-d4	105	71	132
Toluene-d8	104	68	139
4-Bromofluorobenzene	102	62	136

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	< 0.02	Dibromochloromethane	< 0.5
Bromomethane	<5	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	< 50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<5	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<5
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	1.1	1,1,2,2-Tetrachloroethane	< 0.2
2-Butanone (MEK)	<20	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	< 0.2	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	< 0.5	1,2,4-Trimethylbenzene	<1
Benzene	< 0.35	sec-Butylbenzene	<1
Trichloroethene	< 0.5	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	< 0.5	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	< 0.4	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	< 0.5
trans-1,3-Dichloropropene	< 0.4	Naphthalene	<1
1,1,2-Trichloroethane	< 0.5	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	B10-GW-14.5	Client:	Evren Northwest
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 Date Received:
 02/17/23
 Project:
 1460-23001-01, F&BI 302250

 Date Extracted:
 02/21/23
 Lab ID:
 302250-21

 Date Analyzed:
 02/22/23
 Data File:
 022152.D

 $\begin{array}{ccccc} \text{Matrix:} & \text{Water} & \text{Instrument:} & \text{GCMS13} \\ \text{Units:} & \text{ug/L (ppb)} & \text{Operator:} & \text{lm} \end{array}$

		Lower	Upper
Surrogates:	% Recovery:	Limit:	Limit:
1,2-Dichloroethane-d4	93	71	132
Toluene-d8	95	68	139
4-Bromofluorobenzene	99	62	136

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	1.2
Vinyl chloride	< 0.02	Dibromochloromethane	< 0.5
Bromomethane	<5	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	< 50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<5	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<5
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	1.0	1,1,2,2-Tetrachloroethane	< 0.2
2-Butanone (MEK)	<20	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	< 0.2	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	< 0.5	1,2,4-Trimethylbenzene	<1
Benzene	< 0.35	sec-Butylbenzene	<1
Trichloroethene	< 0.5	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	< 0.5	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	< 0.4	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	< 0.5
trans-1,3-Dichloropropene	< 0.4	Naphthalene	<1
1,1,2-Trichloroethane	< 0.5	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	B12-GW-230216	Client:	Evren Northwest
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Date Received: 02/17/23 Project: 1460-23001-01, F&BI 302250

Lab ID: 302250-22 Date Extracted: 02/21/23 Date Analyzed: 02/22/23 Data File: 022153.DMatrix: Instrument: GCMS13 Water Units: ug/L (ppb) Operator: lm

		Lower	Upper
Surrogates:	% Recovery:	Limit:	Limit:
1,2-Dichloroethane-d4	90	71	132
Toluene-d8	94	68	139
4-Bromofluorobenzene	103	62	136

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	0.021	Dibromochloromethane	< 0.5
Bromomethane	<5	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	< 50	1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<5	o-Xylene	2.1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<5
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	< 0.2
2-Butanone (MEK)	<20	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	< 0.2	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	< 0.5	1,2,4-Trimethylbenzene	1.3
Benzene	< 0.35	sec-Butylbenzene	<1
Trichloroethene	< 0.5	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	< 0.5	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	< 0.4	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	< 0.5
trans-1,3-Dichloropropene	< 0.4	Naphthalene	1.1
1,1,2-Trichloroethane	< 0.5	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID: Method Blank Client: Evren Northwest

Date Received: Not Applicable Project: 1460-23001-01, F&BI 302250

02/20/23 Lab ID: Date Extracted: 03-0340 mb Date Analyzed: 02/20/23 Data File: $022007.\mathrm{D}$ Matrix: Water Instrument: GCMS13 Units: ug/L (ppb) Operator: lm

		Lower	Upper
Surrogates:	% Recovery:	Limit:	Limit:
1,2-Dichloroethane-d4	101	71	132
Toluene-d8	103	68	139
4-Bromofluorobenzene	104	62	136

	Concentration		Concentration
Compounds:	ug/L (ppb)	Compounds:	ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	< 0.02	Dibromochloromethane	< 0.5
Bromomethane	<5	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	< 50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<5	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<5
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	< 0.2
2-Butanone (MEK)	<20	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	< 0.2	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	< 0.5	1,2,4-Trimethylbenzene	<1
Benzene	< 0.35	sec-Butylbenzene	<1
Trichloroethene	< 0.5	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	< 0.5	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	< 0.4	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	< 0.5
trans-1,3-Dichloropropene	< 0.4	Naphthalene	<1
1,1,2-Trichloroethane	< 0.5	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID: B06-1 Client: Evren Northwest

Date Received: 02/17/23 Project: 1460-23001-01, F&BI 302250

Date Extracted: 03/01/23 Lab ID: 302250-06 1/25 Date Analyzed: 03/01/23 Data File: 030115.DGCMS9 Matrix: Soil Instrument: Units: mg/kg (ppm) Dry Weight VMOperator:

Surrogates: % Recovery: Limit: Limit: Nitrobanzana d5 79 d 10 198

198 Nitrobenzene-d5 79 d 10 2-Fluorobiphenyl 90 d 117 45 2,4,6-Tribromophenol 98 d 11 158Terphenyl-d14 108 d 50 124

Concentration mg/kg (ppm)

Naphthalene < 0.05 2-Methylnaphthalene < 0.05 1-Methylnaphthalene < 0.05 Acenaphthylene < 0.05 Acenaphthene < 0.05 Fluorene < 0.05 Phenanthrene < 0.05 Anthracene < 0.05 Fluoranthene < 0.05 Pyrene 0.061 Benz(a)anthracene < 0.05 Chrysene < 0.05 Benzo(a)pyrene < 0.05 Benzo(b)fluoranthene < 0.05 Benzo(k)fluoranthene < 0.05 Indeno(1,2,3-cd)pyrene < 0.05 Dibenz(a,h)anthracene < 0.05 Benzo(g,h,i)perylene < 0.05

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID: Method Blank Client: Evren Northwest

Date Received: Not Applicable Project: 1460-23001-01, F&BI 302250

Date Extracted: 03/01/23 Lab ID: 03-496 mb2 1/5 Date Analyzed: 03/01/23 Data File: 030108.DGCMS9 Matrix: Soil Instrument: Units: mg/kg (ppm) Dry Weight VMOperator:

Upper Lower Surrogates: % Recovery: Limit: Limit: Nitrobenzene-d5 198 10 2-Fluorobiphenyl 96 117 45 2,4,6-Tribromophenol 89 11 158Terphenyl-d14 123 50 124

Concentration Compounds: mg/kg (ppm) Naphthalene < 0.01 2-Methylnaphthalene < 0.01 1-Methylnaphthalene < 0.01 Acenaphthylene < 0.01 Acenaphthene < 0.01 Fluorene < 0.01 < 0.01

Phenanthrene Anthracene < 0.01 Fluoranthene < 0.01 Pyrene < 0.01 Benz(a)anthracene < 0.01 Chrysene < 0.01 Benzo(a)pyrene < 0.01 Benzo(b)fluoranthene < 0.01 Benzo(k)fluoranthene < 0.01 Indeno(1,2,3-cd)pyrene < 0.01 Dibenz(a,h)anthracene < 0.01 Benzo(g,h,i)perylene < 0.01

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method $8270\mathrm{E}$

Client Sample ID:	B06-GW-15	Client:	Evren Northwest
Date Received:	02/17/23	Project:	1460-23001-01, F&BI 302250
Date Extracted:	03/01/23	Lab ID:	302250-17 1/2
Date Analyzed:	03/01/23	Data File:	030112.D
Matrix:	Water	Instrument:	GCMS12
Units:	ug/L (ppb)	Operator:	VM

		Lower	Upper
Surrogates:	% Recovery:	Limit:	Limit:
Nitrobenzene-d5	83	11	173
2-Fluorobiphenyl	85	44	108
2,4,6-Tribromophenol	32	10	140
Terphenyl-d14	83	50	150

1 0	
Compounds:	Concentration ug/L (ppb)
Naphthalene	< 0.4
2-Methylnaphthalene	< 0.4
1-Methylnaphthalene	< 0.4
Acenaphthylene	< 0.04
Acenaphthene	< 0.04
Fluorene	< 0.04
Phenanthrene	< 0.04
Anthracene	< 0.04
Fluoranthene	< 0.04
Pyrene	< 0.04
Benz(a)anthracene	< 0.04
Chrysene	< 0.04
Benzo(a)pyrene	< 0.04
Benzo(b)fluoranthene	< 0.04
Benzo(k)fluoranthene	< 0.04
Indeno(1,2,3-cd)pyrene	< 0.04
Dibenz(a,h)anthracene	< 0.04
Benzo(g,h,i)perylene	< 0.08

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	B07-GW-15	Client:	Evren Northwest
Date Received:	02/17/23	Project:	1460-23001-01, F&BI 302250
Date Extracted:	03/01/23	Lab ID:	302250-18 1/2
Date Analyzed:	03/01/23	Data File:	030113.D
Matrix:	Water	Instrument:	GCMS12
Units:	ug/L (ppb)	Operator:	VM

		Lower	Upper
Surrogates:	% Recovery:	Limit:	Limit:
Nitrobenzene-d5	81	11	173
2-Fluorobiphenyl	80	44	108
2,4,6-Tribromophenol	70	10	140
Terphenyl-d14	83	50	150

Terphenyr-ur4	00
Compounds:	Concentration ug/L (ppb)
Naphthalene	< 0.4
2-Methylnaphthalene	< 0.4
1-Methylnaphthalene	< 0.4
Acenaphthylene	< 0.04
Acenaphthene	< 0.04
Fluorene	< 0.04
Phenanthrene	< 0.04
Anthracene	< 0.04
Fluoranthene	< 0.04
Pyrene	< 0.04
Benz(a)anthracene	< 0.04
Chrysene	< 0.04
Benzo(a)pyrene	< 0.04
Benzo(b)fluoranthene	< 0.04
Benzo(k)fluoranthene	< 0.04
Indeno(1,2,3-cd)pyrene	< 0.04
Dibenz(a,h)anthracene	< 0.04
Benzo(g,h,i)perylene	< 0.08

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method $8270\mathrm{E}$

Client Sample ID:	B08-GW-13	Client:	Evren Northwest
Date Received:	02/17/23	Project:	1460-23001-01, F&BI 302250
Date Extracted:	03/01/23	Lab ID:	302250-19 1/2
Date Analyzed:	03/01/23	Data File:	030114.D
Matrix:	Water	Instrument:	GCMS12
Units:	ug/L (ppb)	Operator:	VM

		Lower	Upper
Surrogates:	% Recovery:	Limit:	Limit:
Nitrobenzene-d5	86	11	173
2-Fluorobiphenyl	85	44	108
2,4,6-Tribromophenol	95	10	140
Terphenyl-d14	90	50	150

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Compounds:	Concentration ug/L (ppb)
Naphthalene	< 0.4
2-Methylnaphthalene	< 0.4
1-Methylnaphthalene	< 0.4
Acenaphthylene	< 0.04
Acenaphthene	< 0.04
Fluorene	< 0.04
Phenanthrene	< 0.04
Anthracene	< 0.04
Fluoranthene	< 0.04
Pyrene	< 0.04
Benz(a)anthracene	< 0.04
Chrysene	< 0.04
Benzo(a)pyrene	< 0.04
Benzo(b)fluoranthene	< 0.04
Benzo(k)fluoranthene	< 0.04
Indeno(1,2,3-cd)pyrene	< 0.04
Dibenz(a,h)anthracene	< 0.04
Benzo(g,h,i)perylene	< 0.08

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	B09-GW-14.5	Client:	Evren Northwest
Date Received:	02/17/23	Project:	1460-23001-01, F&BI 302250
Date Extracted:	03/01/23	Lab ID:	302250-20 1/2
Date Analyzed:	03/01/23	Data File:	030115.D
Matrix:	Water	Instrument:	GCMS12
Units:	ug/L (ppb)	Operator:	VM

		Lower	Upper
Surrogates:	% Recovery:	Limit:	Limit:
Nitrobenzene-d5	85	11	173
2-Fluorobiphenyl	85	44	108
2,4,6-Tribromophenol	90	10	140
Terphenyl-d14	89	50	150

Terphenyr-ur4	00
Compounds:	Concentration ug/L (ppb)
Naphthalene	< 0.4
2-Methylnaphthalene	< 0.4
1-Methylnaphthalene	< 0.4
Acenaphthylene	< 0.04
Acenaphthene	< 0.04
Fluorene	< 0.04
Phenanthrene	< 0.04
Anthracene	< 0.04
Fluoranthene	< 0.04
Pyrene	< 0.04
Benz(a)anthracene	< 0.04
Chrysene	< 0.04
Benzo(a)pyrene	< 0.04
Benzo(b)fluoranthene	< 0.04
Benzo(k)fluoranthene	< 0.04
Indeno(1,2,3-cd)pyrene	< 0.04
Dibenz(a,h)anthracene	< 0.04
Benzo(g,h,i)perylene	< 0.08

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	B10-GW-14.5	Client:	Evren Northwest
Date Received:	02/17/23	Project:	1460-23001-01, F&BI 302250
Date Extracted:	03/01/23	Lab ID:	302250-21 1/2
Data Amalanad.	09/01/99	Doto Eilor	02011 <i>C</i> D

Date Extracted: 03/01/25 Lab ID: 502250-21 In Date Analyzed: 03/01/23 Data File: 03/0116.D Matrix: Water Instrument: GCMS12 Units: ug/L (ppb) Operator: VM

		Lower	Upper
Surrogates:	% Recovery:	Limit:	Limit:
Nitrobenzene-d5	91	11	173
2-Fluorobiphenyl	85	44	108
2,4,6-Tribromophenol	81	10	140
Terphenyl-d14	87	50	150

Concentration Compounds: ug/L (ppb) Naphthalene < 0.4 2-Methylnaphthalene < 0.4 1-Methylnaphthalene < 0.4 Acenaphthylene < 0.04 Acenaphthene < 0.04 Fluorene < 0.04 Phenanthrene < 0.04 Anthracene < 0.04 Fluoranthene < 0.04 Pyrene < 0.04 Benz(a)anthracene < 0.04 Chrysene < 0.04 Benzo(a)pyrene < 0.04 Benzo(b)fluoranthene < 0.04 Benzo(k)fluoranthene < 0.04 Indeno(1,2,3-cd)pyrene < 0.04 Dibenz(a,h)anthracene < 0.04 Benzo(g,h,i)perylene < 0.08

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID: B12-GW-230216	Client:	Evren Northwest
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 Date Received:
 02/17/23
 Project:
 1460-23001-01, F&BI 302250

 Date Extracted:
 03/01/23
 Lab ID:
 302250-22 1/2

 Date Analyzed:
 02/01/23
 Date File:
 02/01/7 D

		Lower	Upper
Surrogates:	% Recovery:	Limit:	Limit:
Nitrobenzene-d5	84	11	173
2-Fluorobiphenyl	81	44	108
2,4,6-Tribromophenol	39	10	140
Terphenyl-d14	87	50	150

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Compounds:	Concentration ug/L (ppb)		
Naphthalene	0.76		
2-Methylnaphthalene	1.4		
1-Methylnaphthalene	1.5 jl		
Acenaphthylene	< 0.04		
Acenaphthene	0.051		
Fluorene	0.32		
Phenanthrene	0.34		
Anthracene	< 0.04		
Fluoranthene	< 0.04		
Pyrene	< 0.04		
Benz(a)anthracene	< 0.04		
Chrysene	< 0.04		
Benzo(a)pyrene	< 0.04		
Benzo(b)fluoranthene	< 0.04		
Benzo(k)fluoranthene	< 0.04		
Indeno(1,2,3-cd)pyrene	< 0.04		
Dibenz(a,h)anthracene	< 0.04		
Benzo(g,h,i)perylene	< 0.08		

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	Method Blank	Client:	Evren Northwest

 Date Received:
 Not Applicable
 Project:
 1460-23001-01, F&BI 302250

 Date Extracted:
 03/01/23
 Lab ID:
 03-505 mb

 Date Analyzed:
 03/01/23
 Data File:
 030111 D

Date Analyzed: 03/01/23 Data File: 030111.D

Matrix: Water Instrument: GCMS12

Units: ug/L (ppb) Operator: VM

		Lower	Upper
Surrogates:	% Recovery:	Limit:	Limit:
Nitrobenzene-d5	87	11	173
2-Fluorobiphenyl	84	44	108
2,4,6-Tribromophenol	91	10	140
Terphenyl-d14	96	50	150

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Compounds:	Concentration ug/L (ppb)		
Naphthalene	< 0.2		
2-Methylnaphthalene	< 0.2		
1-Methylnaphthalene	< 0.2		
Acenaphthylene	< 0.02		
Acenaphthene	< 0.02		
Fluorene	< 0.02		
Phenanthrene	< 0.02		
Anthracene	< 0.02		
Fluoranthene	< 0.02		
Pyrene	< 0.02		
Benz(a)anthracene	< 0.02		
Chrysene	< 0.02		
Benzo(a)pyrene	< 0.02		
Benzo(b)fluoranthene	< 0.02		
Benzo(k)fluoranthene	< 0.02		
Indeno(1,2,3-cd)pyrene	< 0.02		
Dibenz(a,h)anthracene	< 0.02		
Benzo(g,h,i)perylene	< 0.04		

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID: B06-1 Client: **Evren Northwest**

Date Received: 02/17/23 Project: 1460-23001-01, F&BI 302250

Date Extracted: 02/21/22 Lab ID: 302250-06 1/30 Date Analyzed: 02/22/23 Data File: 022208.DMatrix: Soil GC7 Instrument: Units: mg/kg (ppm) Dry Weight Operator: MG

Upper Limit: 154 Lower % Recovery: Limit:

Surrogates: Tetrachlorometaxylene 29 74Decachlorobiphenyl 89 $\overline{11}$ 152

< 0.02

< 0.02

Concentration Compounds: mg/kg (ppm) Aroclor 1221 < 0.02 Aroclor 1232 < 0.02 Aroclor 1016 < 0.02 Aroclor 1242 0.34Aroclor 1248 < 0.02 Aroclor 1254 < 0.02 Aroclor 1260 < 0.02 Aroclor 1262

Aroclor 1268

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID: Method Blank Client: Evren Northwest

Date Received: Not Applicable Project: 1460-23001-01, F&BI 302250

Date Extracted: 02/21/22 Lab ID: 03-447 mb2 cl 1/30

Date Analyzed: 02/22/23 Data File: 022207.D Matrix: Soil Instrument: GC7 Units: mg/kg (ppm) Dry Weight Operator: MG

< 0.02

Decachlorobiphenyl 113 11

Concentration
Compounds: mg/kg (ppm)

Aroclor 1221 <0.02
Aroclor 1232 <0.02

Aroclor 1232 <0.02 Aroclor 1016 <0.02 Aroclor 1242 <0.02 Aroclor 1248 <0.02 Aroclor 1254 <0.02 Aroclor 1260 <0.02 Aroclor 1262 <0.02

Aroclor 1268

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B04-GW-12.5	Client:	Evren Northwest
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Date Received: 02/17/23 Project: 1460-23001-01, F&BI 302250

Lab ID: Date Extracted: 02/20/23 302250 - 15Date Analyzed: 02/21/23 Data File: 022118.DMatrix: Instrument: Water GC7Units: ug/L (ppb) MGOperator:

		Lower	Upper
Surrogates:	% Recovery:	Limit:	Limit:
Tetrachlorometaxylene	53	24	127
Decachlorobiphenyl	45	11	152

Concentration

< 0.1
~ 0.1
< 0.1
< 0.1
< 0.1
< 0.1
< 0.1
< 0.1
< 0.1
< 0.1

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B05-GW-12.5	Client:	Evren Northwest
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Date Received: 02/17/23 Project: 1460-23001-01, F&BI 302250

Lab ID: Date Extracted: 02/20/23 302250-16Date Analyzed: 02/21/23 Data File: 022119.DMatrix: Instrument: Water GC7Units: ug/L (ppb) Operator: MG

		Lower	Upper
Surrogates:	% Recovery:	Limit:	Limit:
Tetrachlorometaxylene	58	24	127
Decachlorobiphenyl	55	11	152

Concentration

Compounds:	ug/L (ppb)
Aroclor 1221	< 0.1
Aroclor 1232	< 0.1
Aroclor 1016	< 0.1
Aroclor 1242	< 0.1
Aroclor 1248	< 0.1
Aroclor 1254	< 0.1
Aroclor 1260	< 0.1
Aroclor 1262	< 0.1
Aroclor 1268	< 0.1

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B06-GW-15	Client:	Evren Northwest
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Date Received: 02/17/23 Project: 1460-23001-01, F&BI 302250

Lab ID: Date Extracted: 02/20/23 302250-17Date Analyzed: 02/21/23 Data File: 022123.DMatrix: Water Instrument: GC7Units: ug/L (ppb) MGOperator:

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Tetrachlorometaxylene	38	24	127
Decachlorobiphenyl	47	11	152

Concentration

Compounds:	ug/L (ppb)
Aroclor 1221	< 0.1
Aroclor 1232	< 0.1
Aroclor 1016	< 0.1
Aroclor 1242	< 0.1
Aroclor 1248	< 0.1
Aroclor 1254	< 0.1
Aroclor 1260	< 0.1
Aroclor 1262	< 0.1
Aroclor 1268	< 0.1

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B07-GW-15	Client:	Evren Northwest
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Date Received: 02/17/23 Project: 1460-23001-01, F&BI 302250

Lab ID: Date Extracted: 02/20/23 302250-18 Date Analyzed: 02/21/23 Data File: 022124.DMatrix: Water Instrument: GC7Units: ug/L (ppb) MGOperator:

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Tetrachlorometaxylene	36	24	127
Decachlorobiphenyl	61	11	152

Concentration

Compounds:	ug/L (ppb)
Aroclor 1221	<0.1
Aroclor 1232	< 0.1
Aroclor 1016	< 0.1
Aroclor 1242	< 0.1
Aroclor 1248	< 0.1
Aroclor 1254	< 0.1
Aroclor 1260	< 0.1
Aroclor 1262	< 0.1
Aroclor 1268	< 0.1

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B08-GW-13	Client:	Evren Northwest
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Date Received: 02/17/23 Project: 1460-23001-01, F&BI 302250

Lab ID: Date Extracted: 02/20/23 302250-19 Date Analyzed: 02/21/23 Data File: $022125.\mathrm{D}$ Matrix: Instrument: Water GC7Units: ug/L (ppb) Operator: MG

		Lower	Upper
Surrogates:	% Recovery:	Limit:	Limit:
Tetrachlorometaxylene	45	24	127
Decachlorobiphenyl	70	11	152

Concentration

< 0.1

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	< 0.1
Aroclor 1232	< 0.1
Aroclor 1016	< 0.1
Aroclor 1242	< 0.1
Aroclor 1248	< 0.1
Aroclor 1254	< 0.1
Aroclor 1260	< 0.1
Aroclor 1262	< 0.1

Aroclor 1268

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B09-GW-14.5	Client:	Evren Northwest
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Date Received: 02/17/23 Project: 1460-23001-01, F&BI 302250

Lab ID: Date Extracted: 02/20/23 302250-20 Date Analyzed: 02/21/23 Data File: $022126.\mathrm{D}$ Matrix: Instrument: Water GC7Units: ug/L (ppb) MGOperator:

		Lower	Upper
Surrogates:	% Recovery:	Limit:	Limit:
Tetrachlorometaxylene	35	24	127
Decachlorobiphenyl	60	11	152

Concentration

pb)

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B10-GW-14.5	Client:	Evren Northwest
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Date Received: 02/17/23 Project: 1460-23001-01, F&BI 302250

Lab ID: Date Extracted: 02/20/23 302250-21Date Analyzed: 02/21/23 Data File: 022127.DMatrix: Instrument: Water GC7Units: ug/L (ppb) MGOperator:

		Lower	Upper
Surrogates:	% Recovery:	Limit:	Limit:
Tetrachlorometaxylene	33	24	127
Decachlorobiphenyl	30	11	152

Concentration ug/L (ppb)

•	0 41 /
Aroclor 1221	< 0.1
Aroclor 1232	< 0.1
Aroclor 1016	< 0.1
Aroclor 1242	< 0.1
Aroclor 1248	< 0.1
Aroclor 1254	< 0.1
Aroclor 1260	< 0.1
Aroclor 1262	< 0.1
Aroclor 1268	< 0.1

Compounds:

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B12-GW-230216	Client:	Evren Northwest
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Date Received: 02/17/23 Project: 1460-23001-01, F&BI 302250

Lab ID: Date Extracted: 02/20/23 302250-22 Date Analyzed: 02/21/23 Data File: 022128.DWater Matrix: Instrument: GC7 Units: ug/L (ppb) Operator: MG

		Lower	Upper
Surrogates:	% Recovery:	Limit:	Limit:
Tetrachlorometaxylene	46	24	127
Decachlorobiphenyl	29	11	152

< 0.1

< 0.1

Concentration Compounds: ug/L (ppb) Aroclor 1221 < 0.1 < 0.1 Aroclor 1232 Aroclor 1016 < 0.1 Aroclor 1242< 0.1 Aroclor 1248 < 0.1 Aroclor 1254 < 0.1 Aroclor 1260 < 0.1

Aroclor 1262

Aroclor 1268

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	Method Blank	Client:	Evren Northwest
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Date Received: Not Applicable Project: 1460-23001-01, F&BI 302250

Lab ID: Date Extracted: 02/20/23 03-441 mbDate Analyzed: 02/21/23 Data File: 022110.DMatrix: Water Instrument: GC7 Units: ug/L (ppb) Operator: MG

-	_	Lower	$_{ m Upper}$
Surrogates:	% Recovery:	Limit:	Limit:
Tetrachlorometaxylene	56	24	127
Decachlorobiphenyl	63	11	152

Concentration ug/L (ppb)

Aroclor 1221 < 0.1 Aroclor 1232 < 0.1 Aroclor 1016 < 0.1 Aroclor 1242< 0.1 Aroclor 1248 < 0.1 Aroclor 1254 < 0.1 Aroclor 1260 < 0.1 Aroclor 1262< 0.1 Aroclor 1268 < 0.1

ENVIRONMENTAL CHEMISTS

Date of Report: 03/08/23 Date Received: 02/17/23

Project: 1460-23001-01, F&BI 302250

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TPH AS GASOLINE USING METHOD NWTPH-Gx

Laboratory Code: 302250-15 (Duplicate)

	Reporting	Sample	Duplicate	RPD
Analyte	Units	Result	Result	(Limit 20)
Gasoline	ug/L (ppb)	<100	<100	nm

			Percent		
	Reporting	Spike	Recovery	Acceptance	
Analyte	Units	Level	LCS	Criteria	
Gasoline	ug/L (ppb)	1,000	90	70-130	

ENVIRONMENTAL CHEMISTS

Date of Report: 03/08/23 Date Received: 02/17/23

Project: 1460-23001-01, F&BI 302250

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 302277-01 (Matrix Spike)

			(Wet wt)	Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	102	102	70-130	0

			rercent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Diesel Extended	mg/kg (ppm)	5,000	104	70-130

ENVIRONMENTAL CHEMISTS

Date of Report: 03/08/23 Date Received: 02/17/23

Project: 1460-23001-01, F&BI 302250

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Diesel Extended	ug/L (ppb)	2,500	88	104	70-130	17

ENVIRONMENTAL CHEMISTS

Date of Report: 03/08/23 Date Received: 02/17/23

Project: 1460-23001-01, F&BI 302250

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED METALS USING EPA METHOD 6020B

Laboratory Code: 302250-15 (Matrix Spike)

				Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Arsenic	ug/L (ppb)	10	<1	88	82	75-125	7
Barium	ug/L (ppb)	50	28.0	111	103	75 - 125	7
Cadmium	ug/L (ppb)	5	<1	103	98	75 - 125	5
Chromium	ug/L (ppb)	20	<1	102	100	75 - 125	2
Lead	ug/L (ppb)	10	<1	98	94	75 - 125	4
Mercury	ug/L (ppb)	5	<1	99	95	75 - 125	4
Selenium	ug/L (ppb)	5	<1	88	84	75 - 125	5
Silver	ug/L (ppb)	5	<1	96	93	75 - 125	3

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	ug/L (ppb)	10	92	80-120
Barium	ug/L (ppb)	50	102	80-120
Cadmium	ug/L (ppb)	5	102	80-120
Chromium	ug/L (ppb)	20	107	80-120
Lead	ug/L (ppb)	10	97	80-120
Mercury	ug/L (ppb)	5	99	80-120
Selenium	ug/L (ppb)	5	104	80-120
Silver	ug/L (ppb)	5	91	80-120

ENVIRONMENTAL CHEMISTS

Date of Report: 03/08/23 Date Received: 02/17/23

Project: 1460-23001-01, F&BI 302250

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 6020B

Laboratory Code: 302250-02 x5 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Arsenic	mg/kg (ppm)	10	<5	90	101	75-125	12
Barium	mg/kg (ppm)	50	114	75	97	75 - 125	$26 \mathrm{\ b}$
Cadmium	mg/kg (ppm)	10	<5	93	98	75 - 125	5
Chromium	mg/kg (ppm)	50	10.5	89	96	75 - 125	8
Lead	mg/kg (ppm)	50	9.44	88	92	75 - 125	4
Mercury	mg/kg (ppm	5	<5	92	93	75 - 125	1
Selenium	mg/kg (ppm)	5	<5	84	89	75 - 125	6
Silver	mg/kg (ppm)	10	<5	89	95	75 - 125	7

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	mg/kg (ppm)	10	105	80-120
Barium	mg/kg (ppm)	50	97	80-120
Cadmium	mg/kg (ppm)	10	100	80-120
Chromium	mg/kg (ppm)	50	105	80-120
Lead	mg/kg (ppm)	50	96	80-120
Mercury	mg/kg (ppm)	5	94	80-120
Selenium	mg/kg (ppm)	5	99	80-120
Silver	mg/kg (ppm)	10	97	80-120

ENVIRONMENTAL CHEMISTS

Date of Report: 03/08/23 Date Received: 02/17/23

Project: 1460-23001-01, F&BI 302250

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 302382-04 (Matrix Spike)

,	1 /		Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Dichlorodifluoromethane	mg/kg (ppm)	2	< 0.5	14	10	10-142	33 vo
Chloromethane	mg/kg (ppm)	2	< 0.5	42	33	10-126	24 vo
Vinyl chloride	mg/kg (ppm)	2	< 0.05	38	31	10-138	20
Bromomethane	mg/kg (ppm)	2	< 0.5	83	72	10-163	14
Chloroethane	mg/kg (ppm)	2	< 0.5	55	48	10-176	14
Trichlorofluoromethane	mg/kg (ppm)	2 10	< 0.5	50	39	10-176	25 vo
Acetone 1.1-Dichloroethene	mg/kg (ppm) mg/kg (ppm)	2	<5 <0.05	57 64	52 51	10-163 10-160	9 23 vo
Hexane	mg/kg (ppm)	2	< 0.25	35	25	10-137	23 vo 33 vo
Methylene chloride	mg/kg (ppm)	2	< 0.5	78	64	10-156	20
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2	< 0.05	83	71	21-145	16
trans-1,2-Dichloroethene	mg/kg (ppm)	2	< 0.05	71	58	14-137	20
1,1-Dichloroethane	mg/kg (ppm)	2	< 0.05	72	60	19-140	18
2.2-Dichloropropane	mg/kg (ppm)	2	< 0.05	68	59	10-158	14
cis-1,2-Dichloroethene	mg/kg (ppm)	2	< 0.05	77	66	25-135	15
Chloroform	mg/kg (ppm)	2	< 0.05	81	68	21-145	17
2-Butanone (MEK)	mg/kg (ppm)	10	<1	76	67	19-147	13
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2	< 0.05	82	69	12-160	17
1,1,1-Trichloroethane	mg/kg (ppm)	2	< 0.05	81	68	10-156	17
1,1-Dichloropropene	mg/kg (ppm)	2	< 0.05	71	59	17-140	18
Carbon tetrachloride	mg/kg (ppm)	2	< 0.05	74	62	9-164	18
Benzene	mg/kg (ppm)	2	< 0.03	77	66	29-129	15
Trichloroethene	mg/kg (ppm)	2	< 0.02	80	67	21-139	18
1,2-Dichloropropane	mg/kg (ppm)	2	< 0.05	72	61	30-135	17
Bromodichloromethane	mg/kg (ppm)	$\frac{2}{2}$	< 0.05	81	69	23-155	16
Dibromomethane	mg/kg (ppm)	2 10	< 0.05	81	71	23-145	13
4-Methyl-2-pentanone cis-1,3-Dichloropropene	mg/kg (ppm)	2	<1 <0.05	87 74	76 64	24-155 $28-144$	13 14
Toluene	mg/kg (ppm) mg/kg (ppm)	2	< 0.05	76	65	35-130	16
trans-1,3-Dichloropropene	mg/kg (ppm)	2	< 0.05	72	63	26-149	13
1,1,2-Trichloroethane	mg/kg (ppm)	2	< 0.05	72	62	10-205	15
2-Hexanone	mg/kg (ppm)	10	< 0.5	87	77	15-166	12
1,3-Dichloropropane	mg/kg (ppm)	2	< 0.05	77	67	31-137	14
Tetrachloroethene	mg/kg (ppm)	2	< 0.025	83	70	20-133	17
Dibromochloromethane	mg/kg (ppm)	2	< 0.05	72	63	28-150	13
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2	< 0.05	75	65	28-142	14
Chlorobenzene	mg/kg (ppm)	2	< 0.05	80	69	32-129	15
Ethylbenzene	mg/kg (ppm)	2	< 0.05	80	68	32-137	16
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2	< 0.05	78	68	31-143	14
m,p-Xylene	mg/kg (ppm)	4	< 0.1	80	69	34-136	15
o-Xylene	mg/kg (ppm)	2	< 0.05	80	69	33-134	15
Styrene	mg/kg (ppm)	2	< 0.05	80	68	35-137	16
Isopropylbenzene	mg/kg (ppm)	2 2	< 0.05	85	72	31-142	17
Bromoform n-Propylbenzene	mg/kg (ppm)	2	<0.05 <0.05	73 79	64 68	21-156 23-146	13 15
n-Propylbenzene Bromobenzene	mg/kg (ppm) mg/kg (ppm)	2	< 0.05	84	68 73	34-130	15
1,3,5-Trimethylbenzene	mg/kg (ppm)	2	< 0.05	81	70	18-149	15
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	2	< 0.05	76	67	28-140	13
1,2,3-Trichloropropane	mg/kg (ppm)	2	< 0.05	76	66	25-144	14
2-Chlorotoluene	mg/kg (ppm)	2	< 0.05	80	69	31-134	15
4-Chlorotoluene	mg/kg (ppm)	2	< 0.05	78	67	31-136	15
tert-Butylbenzene	mg/kg (ppm)	2	< 0.05	84	72	30-137	15
1,2,4-Trimethylbenzene	mg/kg (ppm)	2	< 0.05	81	70	10-182	15
sec-Butylbenzene	mg/kg (ppm)	2	< 0.05	82	71	23-145	14
p-Isopropyltoluene	mg/kg (ppm)	2	< 0.05	82	70	21-149	16
1,3-Dichlorobenzene	mg/kg (ppm)	2	< 0.05	83	72	30-131	14
1,4-Dichlorobenzene	mg/kg (ppm)	2	< 0.05	84	72	29-129	15
1,2-Dichlorobenzene	mg/kg (ppm)	2	< 0.05	85	74	31-132	14
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2	< 0.5	72	63	11-161	13
1,2,4-Trichlorobenzene	mg/kg (ppm)	2	< 0.25	86	75	22-142	14
Hexachlorobutadiene	mg/kg (ppm)	2	< 0.25	94	84	10-142	11
Naphthalene	mg/kg (ppm)	$\frac{2}{2}$	< 0.05	82	72	14-157	13
1,2,3-Trichlorobenzene	mg/kg (ppm)	Z	< 0.25	89	76	20-144	16

ENVIRONMENTAL CHEMISTS

Date of Report: 03/08/23 Date Received: 02/17/23

Project: 1460-23001-01, F&BI 302250

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code. Laboratory Con	itroi Sample		Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Dichlorodifluoromethane	mg/kg (ppm)	2	49	10-146
Chloromethane	mg/kg (ppm)	2	62	27-133
Vinyl chloride	mg/kg (ppm)	2	67	22-139
Bromomethane	mg/kg (ppm)	2	106	38-114
Chloroethane	mg/kg (ppm)	2	83	9-163
Trichlorofluoromethane	mg/kg (ppm)	2	91	10-196
Acetone	mg/kg (ppm)	10	68	52-141
1,1-Dichloroethene	mg/kg (ppm)	2	93	47-128
Hexane	mg/kg (ppm)	$\frac{2}{2}$	89	43-142
Methylene chloride Methyl t-butyl ether (MTBE)	mg/kg (ppm) mg/kg (ppm)	$\frac{2}{2}$	93 98	10-184 60-123
trans-1,2-Dichloroethene	mg/kg (ppm)	$\frac{2}{2}$	96 92	67-129
1,1-Dichloroethane	mg/kg (ppm)	2	90	68-115
2,2-Dichloropropane	mg/kg (ppm)	2	104	52-170
cis-1,2-Dichloroethene	mg/kg (ppm)	2	94	72-127
Chloroform	mg/kg (ppm)	2	97	66-120
2-Butanone (MEK)	mg/kg (ppm)	10	88	30-197
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2	95	56-135
1,1,1-Trichloroethane	mg/kg (ppm)	2	101	62-131
1,1-Dichloropropene	mg/kg (ppm)	2	94	69-128
Carbon tetrachloride	mg/kg (ppm)	2	95	60-139
Benzene Trichloroethene	mg/kg (ppm)	$\frac{2}{2}$	93 94	71-118
1,2-Dichloropropane	mg/kg (ppm) mg/kg (ppm)	2	94 86	63-121 72-127
Bromodichloromethane	mg/kg (ppm)	2	96	57-126
Dibromomethane	mg/kg (ppm)	2	96	62-123
4-Methyl-2-pentanone	mg/kg (ppm)	10	103	45-145
cis-1,3-Dichloropropene	mg/kg (ppm)	2	90	67-122
Toluene	mg/kg (ppm)	2	90	66-126
trans-1,3-Dichloropropene	mg/kg (ppm)	2	89	72-132
1,1,2-Trichloroethane	mg/kg (ppm)	2	85	64-115
2-Hexanone	mg/kg (ppm)	10	108	33-152
1,3-Dichloropropane Tetrachloroethene	mg/kg (ppm)	$\frac{2}{2}$	90 101	72-130
Dibromochloromethane	mg/kg (ppm) mg/kg (ppm)	2	101 88	72-114 55-121
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2	88	74-132
Chlorobenzene	mg/kg (ppm)	2	93	76-111
Ethylbenzene	mg/kg (ppm)	2	94	64-123
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2	93	64-121
m,p-Xylene	mg/kg (ppm)	4	94	78-122
o-Xylene	mg/kg (ppm)	2	94	77-124
Styrene	mg/kg (ppm)	2	93	74-126
Isopropylbenzene	mg/kg (ppm)	2	99	76-127
Bromoform	mg/kg (ppm)	$\frac{2}{2}$	90 96	56-132 74-124
n-Propylbenzene Bromobenzene	mg/kg (ppm) mg/kg (ppm)	2	96 98	74-124 72-122
1,3,5-Trimethylbenzene	mg/kg (ppm)	2	98	76-126
1.1.2.2-Tetrachloroethane	mg/kg (ppm)	2	94	56-143
1,2,3-Trichloropropane	mg/kg (ppm)	2	91	61-137
2-Chlorotoluene	mg/kg (ppm)	2	95	74-121
4-Chlorotoluene	mg/kg (ppm)	2	93	75-122
tert-Butylbenzene	mg/kg (ppm)	2	100	73-130
1,2,4-Trimethylbenzene	mg/kg (ppm)	2	97	76-125
sec-Butylbenzene	mg/kg (ppm)	2	98	71-130
p-Isopropyltoluene	mg/kg (ppm)	2	98	70-132
1,3-Dichlorobenzene	mg/kg (ppm)	$\frac{2}{2}$	98 98	75-121 74-117
1,4-Dichlorobenzene 1,2-Dichlorobenzene	mg/kg (ppm) mg/kg (ppm)	$\frac{2}{2}$	98 100	74-117 76-121
1,2-Dichloropenzene 1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2	87	58-138
1,2,4-Trichlorobenzene	mg/kg (ppm)	2	101	64-135
Hexachlorobutadiene	mg/kg (ppm)	2	117	50-153
Naphthalene	mg/kg (ppm)	2	94	63-140
1,2,3-Trichlorobenzene	mg/kg (ppm)	2	101	63-138

ENVIRONMENTAL CHEMISTS

Date of Report: 03/08/23 Date Received: 02/17/23

Project: 1460-23001-01, F&BI 302250

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 302251-01 (Matrix Spike)

Laboratory Code. 302251-01 (Ma	illix opike)			Percent	
	Reporting	Spike	Sample	Recovery	Acceptance
Analyte	Units	Level	Result	MS	Criteria
Dichlorodifluoromethane	ug/L (ppb)	10	<1	7 vo	50-150
Chloromethane	ug/L (ppb)	10	<10	21 vo	50-150
Vinyl chloride	ug/L (ppb)	10	< 0.02	33	16-176
Bromomethane	ug/L (ppb)	10	<5	58	10-193
Chloroethane	ug/L (ppb)	10	<1	61	50-150
Trichlorofluoromethane	ug/L (ppb)	10	<1	57	50-150
Acetone	ug/L (ppb)	50	<50	93	15-179
1,1-Dichloroethene	ug/L (ppb)	10	<1	80	50-150
Hexane	ug/L (ppb)	10	<5	83	49-161
Methylene chloride	ug/L (ppb)	10	<5	82	40-143
Methyl t-butyl ether (MTBE)	ug/L (ppb)	10	<1	89	50-150
trans-1,2-Dichloroethene	ug/L (ppb)	10	<1	88	50-150
1,1-Dichloroethane	ug/L (ppb)	10	<1 <1	93 107	50-150
2,2-Dichloropropane	ug/L (ppb)	10	_		10-335
cis-1,2-Dichloroethene Chloroform	ug/L (ppb)	10 10	<1 <1	97 96	50-150
	ug/L (ppb)	50	<20	96 99	50-150
2-Butanone (MEK)	ug/L (ppb)	50 10		99 95	34-168
1,2-Dichloroethane (EDC) 1,1,1-Trichloroethane	ug/L (ppb)	10	<0.2 <1	95 95	50-150 50-150
1,1-Dichloropropene	ug/L (ppb)	10	<1	94	50-150
Carbon tetrachloride	ug/L (ppb)	10	<0.5	90	50-150
Benzene	ug/L (ppb) ug/L (ppb)	10	< 0.35	95	50-150
Trichloroethene	ug/L (ppb)	10	< 0.5	94	43-133
1,2-Dichloropropane	ug/L (ppb) ug/L (ppb)	10	<1	99	50-150
Bromodichloromethane	ug/L (ppb)	10	< 0.5	94	50-150
Dibromomethane	ug/L (ppb) ug/L (ppb)	10	<1	101	50-150
4-Methyl-2-pentanone	ug/L (ppb)	50	<10	102	50-150
cis-1,3-Dichloropropene	ug/L (ppb)	10	<0.4	103	48-145
Toluene	ug/L (ppb)	10	<1	105	50-150
trans-1,3-Dichloropropene	ug/L (ppb)	10	<0.4	107	37-152
1.1.2-Trichloroethane	ug/L (ppb)	10	< 0.5	106	50-150
2-Hexanone	ug/L (ppb)	50	<10	107	50-150
1,3-Dichloropropane	ug/L (ppb)	10	<1	106	50-150
Tetrachloroethene	ug/L (ppb)	10	<1	103	50-150
Dibromochloromethane	ug/L (ppb)	10	< 0.5	107	33-164
1,2-Dibromoethane (EDB)	ug/L (ppb)	10	<1	106	50-150
Chlorobenzene	ug/L (ppb)	10	<1	105	50-150
Ethylbenzene	ug/L (ppb)	10	<1	108	50-150
1,1,1,2-Tetrachloroethane	ug/L (ppb)	10	<1	111	50-150
m,p-Xylene	ug/L (ppb)	20	<2	109	50-150
o-Xylene	ug/L (ppb)	10	<1	109	50-150
Styrene	ug/L (ppb)	10	<1	106	50-150
Isopropylbenzene	ug/L (ppb)	10	<1	102	50-150
Bromoform	ug/L (ppb)	10	<5	105	23-161
n-Propylbenzene	ug/L (ppb)	10	<1	108	50-150
Bromobenzene	ug/L (ppb)	10	<1	107	50-150
1,3,5-Trimethylbenzene	ug/L (ppb)	10	<1	110	50-150
1,1,2,2-Tetrachloroethane	ug/L (ppb)	10	< 0.2	113	10-235
1,2,3-Trichloropropane	ug/L (ppb)	10	<1	106	33-151
2-Chlorotoluene	ug/L (ppb)	10	<1	111	50-150
4-Chlorotoluene	ug/L (ppb)	10	<1	109	50-150
tert-Butylbenzene	ug/L (ppb)	10	<1	107	50-150
1,2,4-Trimethylbenzene	ug/L (ppb)	10	<1	109	50-150
sec-Butylbenzene	ug/L (ppb)	10	<1	107	46-139
p-Isopropyltoluene	ug/L (ppb)	10	<1	109	46-140
1,3-Dichlorobenzene	ug/L (ppb)	10	<1	106	50-150
1,4-Dichlorobenzene	ug/L (ppb)	10	<1	108	50-150
1,2-Dichlorobenzene	ug/L (ppb)	10	<1	102	50-150
1,2-Dibromo-3-chloropropane	ug/L (ppb)	10	<10	104	50-150
1,2,4-Trichlorobenzene	ug/L (ppb)	10	<1	106	50-150
Hexachlorobutadiene	ug/L (ppb)	10	< 0.5	102	42-150
Naphthalene	ug/L (ppb)	10	<1	121	50-150
1,2,3-Trichlorobenzene	ug/L (ppb)	10	<1	113	44-155

ENVIRONMENTAL CHEMISTS

Date of Report: 03/08/23 Date Received: 02/17/23

Project: 1460-23001-01, F&BI 302250

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Education code. Education, con	are a campio		Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Dichlorodifluoromethane	ug/L (ppb)	10	101	98	70-130	3
Chloromethane	ug/L (ppb)	10	90	88	70-130	2
Vinyl chloride	ug/L (ppb)	10	92	92	70-130	0
Bromomethane	ug/L (ppb)	10	109	108	28-182	1
Chloroethane	ug/L (ppb)	10	104	101	70-130	3
Trichlorofluoromethane	ug/L (ppb)	10	98	98	70-130	0 14
Acetone 1,1-Dichloroethene	ug/L (ppb) ug/L (ppb)	50 10	118 102	103 100	42-155 $70-130$	$\frac{14}{2}$
Hexane	ug/L (ppb) ug/L (ppb)	10	91	92	50-161	1
Methylene chloride	ug/L (ppb)	10	99	97	29-192	2
Methyl t-butyl ether (MTBE)	ug/L (ppb)	10	105	103	70-130	2
trans-1,2-Dichloroethene	ug/L (ppb)	10	100	98	70-130	2
1,1-Dichloroethane	ug/L (ppb)	10	104	102	70-130	2
2,2-Dichloropropane	ug/L (ppb)	10	104	116	70-130	11
cis-1,2-Dichloroethene	ug/L (ppb)	10	107	105	70-130	2
Chloroform	ug/L (ppb)	10 50	102	102	70-130	0
2-Butanone (MEK) 1,2-Dichloroethane (EDC)	ug/L (ppb) ug/L (ppb)	50 10	115 104	111 102	50-157 70-130	$\frac{4}{2}$
1.1.1-Trichloroethane	ug/L (ppb) ug/L (ppb)	10	104	107	70-130	$\frac{2}{2}$
1,1-Dichloropropene	ug/L (ppb)	10	103	100	70-130	3
Carbon tetrachloride	ug/L (ppb)	10	104	98	70-130	6
Benzene	ug/L (ppb)	10	105	103	70-130	2
Trichloroethene	ug/L (ppb)	10	101	99	70-130	2
1,2-Dichloropropane	ug/L (ppb)	10	107	103	70-130	4
Bromodichloromethane	ug/L (ppb)	10	100	99	70-130	1
Dibromomethane	ug/L (ppb)	10	104	108	70-130	4
4-Methyl-2-pentanone cis-1,3-Dichloropropene	ug/L (ppb) ug/L (ppb)	50 10	110 111	113 110	70-130 70-130	3 1
Toluene	ug/L (ppb)	10	103	100	70-130	3
trans-1,3-Dichloropropene	ug/L (ppb)	10	110	106	70-130	4
1,1,2-Trichloroethane	ug/L (ppb)	10	104	101	70-130	3
2-Hexanone	ug/L (ppb)	50	103	102	69-130	1
1,3-Dichloropropane	ug/L (ppb)	10	105	102	70-130	3
Tetrachloroethene	ug/L (ppb)	10	98	96	70-130	2
Dibromochloromethane	ug/L (ppb)	10	104	104	63-142	0
1,2-Dibromoethane (EDB) Chlorobenzene	ug/L (ppb) ug/L (ppb)	10 10	105 102	102 101	70-130 70-130	3 1
Ethylbenzene	ug/L (ppb)	10	104	102	70-130	2
1,1,1,2-Tetrachloroethane	ug/L (ppb)	10	114	109	70-130	4
m,p-Xylene	ug/L (ppb)	20	105	103	70-130	2
o-Xylene	ug/L (ppb)	10	107	104	70-130	3
Styrene	ug/L (ppb)	10	102	102	70-130	0
Isopropylbenzene	ug/L (ppb)	10	101	98	70-130	3
Bromoform	ug/L (ppb)	10	108	107	50-157	1
n-Propylbenzene Bromobenzene	ug/L (ppb) ug/L (ppb)	10 10	99 102	100 99	70-130 70-130	1 3
1,3,5-Trimethylbenzene	ug/L (ppb)	10	101	100	52-150	1
1,1,2,2-Tetrachloroethane	ug/L (ppb)	10	107	107	70-130	0
1,2,3-Trichloropropane	ug/L (ppb)	10	103	103	70-130	0
2-Chlorotoluene	ug/L (ppb)	10	105	105	70-130	0
4-Chlorotoluene	ug/L (ppb)	10	104	101	70-130	3
tert-Butylbenzene	ug/L (ppb)	10	101	100	70-130	1
1,2,4-Trimethylbenzene	ug/L (ppb)	10	102	100	70-130	2
sec-Butylbenzene p-Isopropyltoluene	ug/L (ppb) ug/L (ppb)	10 10	100 101	100 102	70-130 70-130	0 1
p-isopropyitoiuene 1,3-Dichlorobenzene	ug/L (ppb) ug/L (ppb)	10 10	98	102 98	70-130 70-130	0
1,3-Dichlorobenzene 1,4-Dichlorobenzene	ug/L (ppb) ug/L (ppb)	10	98 101	98 101	70-130 70-130	0
1,2-Dichlorobenzene	ug/L (ppb)	10	98	99	70-130	1
1,2-Dibromo-3-chloropropane	ug/L (ppb)	10	105	103	70-130	2
1,2,4-Trichlorobenzene	ug/L (ppb)	10	98	101	70-130	3
Hexachlorobutadiene	ug/L (ppb)	10	95	96	70-130	1
Naphthalene	ug/L (ppb)	10	113	116	70-130	3
1,2,3-Trichlorobenzene	ug/L (ppb)	10	108	108	69-143	0

ENVIRONMENTAL CHEMISTS

Date of Report: 03/08/23 Date Received: 02/17/23

Project: 1460-23001-01, F&BI 302250

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270E

Laboratory Code: 302350-17 1/5 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result		Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet wt)	$^{ m MS}$	MSD	Criteria	(Limit 20)
Naphthalene	mg/kg (ppm)	0.83	0.024	80	82	50-150	2
2-Methylnaphthalene	mg/kg (ppm)	0.83	0.076	80	86	50-150	7
1-Methylnaphthalene	mg/kg (ppm)	0.83	0.042	84	89	50-150	6
Acenaphthylene	mg/kg (ppm)	0.83	< 0.01	96	95	50-150	1
Acenaphthene	mg/kg (ppm)	0.83	< 0.01	87	86	50-150	1
Fluorene	mg/kg (ppm)	0.83	< 0.01	89	90	50-150	1
Phenanthrene	mg/kg (ppm)	0.83	< 0.01	91	89	10-170	2
Anthracene	mg/kg (ppm)	0.83	< 0.01	91	88	50-150	3
Fluoranthene	mg/kg (ppm)	0.83	< 0.01	92	90	10-203	2
Pyrene	mg/kg (ppm)	0.83	< 0.01	90	87	10-208	3
Benz(a)anthracene	mg/kg (ppm)	0.83	< 0.01	92	92	37-146	0
Chrysene	mg/kg (ppm)	0.83	< 0.01	91	91	36-144	0
Benzo(a)pyrene	mg/kg (ppm)	0.83	< 0.01	88	88	40-150	0
Benzo(b)fluoranthene	mg/kg (ppm)	0.83	< 0.01	91	91	45-157	0
Benzo(k)fluoranthene	mg/kg (ppm)	0.83	< 0.01	84	86	50-150	2
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.83	< 0.01	89	77	24-145	14
Dibenz(a,h)anthracene	mg/kg (ppm)	0.83	< 0.01	85	74	31-137	14
Benzo(g,h,i)perylene	mg/kg (ppm)	0.83	< 0.01	83	71	14-141	16

ENVIRONMENTAL CHEMISTS

Date of Report: 03/08/23 Date Received: 02/17/23

Project: 1460-23001-01, F&BI 302250

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270E

			Percent	
Analyte	Reporting Units	Spike Level	Recovery LCS	Acceptance Criteria
Naphthalene	mg/kg (ppm)	0.83	83	58-108
2-Methylnaphthalene	mg/kg (ppm)	0.83	86	67-109
1-Methylnaphthalene	mg/kg (ppm)	0.83	89	66-107
Acenaphthylene	mg/kg (ppm)	0.83	100	70-130
Acenaphthene	mg/kg (ppm)	0.83	91	66-112
Fluorene	mg/kg (ppm)	0.83	94	67-117
Phenanthrene	mg/kg (ppm)	0.83	91	70-130
Anthracene	mg/kg (ppm)	0.83	90	70-130
Fluoranthene	mg/kg (ppm)	0.83	94	70-130
Pyrene	mg/kg (ppm)	0.83	88	70-130
Benz(a)anthracene	mg/kg (ppm)	0.83	94	70-130
Chrysene	mg/kg (ppm)	0.83	93	70-130
Benzo(a)pyrene	mg/kg (ppm)	0.83	90	68-120
Benzo(b)fluoranthene	mg/kg (ppm)	0.83	93	69-125
Benzo(k)fluoranthene	mg/kg (ppm)	0.83	86	70-130
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.83	89	67-129
Dibenz(a,h)anthracene	mg/kg (ppm)	0.83	84	67-128
Benzo(g,h,i)perylene	mg/kg (ppm)	0.83	81	67-127

ENVIRONMENTAL CHEMISTS

Date of Report: 03/08/23 Date Received: 02/17/23

Project: 1460-23001-01, F&BI 302250

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270E

			Percent	Percent			
A 1 .	Reporting	Spike	Recovery	Recovery	Acceptance	RPD	
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)	
Naphthalene	ug/L (ppb)	5	88	87	62-97	1	
2-Methylnaphthalene	ug/L (ppb)	5	95	94	64-101	1	
1-Methylnaphthalene	ug/L (ppb)	5	98 vo	96 vo	64-93	2	
Acenaphthylene	ug/L (ppb)	5	105	102	70-130	3	
Acenaphthene	ug/L (ppb)	5	95	93	70-130	2	
Fluorene	ug/L (ppb)	5	104	101	70-130	3	
Phenanthrene	ug/L (ppb)	5	97	95	70-130	2	
Anthracene	ug/L (ppb)	5	98	96	70-130	2	
Fluoranthene	ug/L (ppb)	5	103	101	70-130	2	
Pyrene	ug/L (ppb)	5	93	95	70-130	2	
Benz(a)anthracene	ug/L (ppb)	5	102	101	70-130	1	
Chrysene	ug/L (ppb)	5	100	99	70-130	1	
Benzo(a)pyrene	ug/L (ppb)	5	97	96	70-130	1	
Benzo(b)fluoranthene	ug/L (ppb)	5	98	94	70-130	4	
Benzo(k)fluoranthene	ug/L (ppb)	5	95	92	70-130	3	
Indeno(1,2,3-cd)pyrene	ug/L (ppb)	5	94	99	70-130	5	
Dibenz(a,h)anthracene	ug/L (ppb)	5	88	93	70-130	6	
Benzo(g,h,i)perylene	ug/L (ppb)	5	84	91	70-130	8	

ENVIRONMENTAL CHEMISTS

Date of Report: 03/08/23 Date Received: 02/17/23

Project: 1460-23001-01, F&BI 302250

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS AS AROCLOR 1016/1260 BY EPA METHOD 8082A

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Aroclor 1016	mg/kg (ppm)	0.25	116	103	47-158	12
Aroclor 1260	mg/kg (ppm)	0.25	114	105	69 - 147	8

ENVIRONMENTAL CHEMISTS

Date of Report: 03/08/23 Date Received: 02/17/23

Project: 1460-23001-01, F&BI 302250

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR POLYCHLORINATED BIPHENYLS AS AROCLOR 1016/1260 BY EPA METHOD 8082A

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Aroclor 1016	ug/L (ppb)	0.25	72	68	25-111	6
Aroclor 1260	ug/L (ppb)	0.25	81	79	23-123	2

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria, biased high; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The analyte is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits due to sample matrix effects.
- j The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- k The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Report To Light Green SAMPLE CHAIN OF CUSTODY SAMPLERS (signature)

PROJECT NAME

1460-23001-01

02/17/23 N3/K4//F3/ 3WZ

TURNAROUND TIME

Standard turnaround

P0#

Rush charges authorized by:

SAMPLE DISPOSAL

INVOICE TO

☐ Archive samples Other_

Phone (503)452-5771 Email Hirofa Even-Mu our

Project specific RLs? - Yes / No

City, State, ZIPE Mand, Of 97793

REMARKS

Address P.O. Box

14488

Company Even Northwest

Default: Dispose after 30 days

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Summary: DATA VALID? ⊠YES

Analytical Laboratory Data Validation Check Sheet

Project Name: 10103 NE Marx - Portland Project Number: 1460-23001-01 Date of Review: 3/9/2023 Lab. Name: F&BI Lab Batch ID #: 302250 **Chain of Custody** 1.) Are all requested analyses reported? \boxtimes yes □no ⊠yes □no 2.) Were the requested methods used? 3.) Trip blank submitted? □yes ⊠no 4.) Field blank submitted? □yes ⊠no **Timing** 5.) Samples extracted within holding times? \boxtimes yes □no □yes If not, are all discrepancies footnoted? □no \boxtimes NA 6.) Analysis performed within holding times? ⊠yes □no If not, are all discrepancies footnoted? □yes □no \boxtimes NA Quality Assurance/Quality Control 7.) Are the required reporting limits reported? (MRLs vs MDLs/PQLs) \boxtimes yes □no 8.) Are all reported values above either MRL or MDL? ⊠yes □no 9.) Are all values between the MDL & PQL tagged as trace? □ves □no \square NA 10a.) Are reporting limits raised for other reason besides high analyte conc.? □yes ⊠no 10b.) If so, are they footnoted? □yes □no $\boxtimes NA$ 11.) Lab method blank completed? \boxtimes yes □no 12.) Lab, Field, or Trip Blank(s) report detections? □yes ⊠no If yes, indicate blank type, chemical(s) and concentration(s): 13.) For inorganics and metals, is there one method blank for each analyte? ⊠yes □no \square NA If not, are all discrepancies footnoted? □yes □no 14.) For VOCs, is there one method blank for each day of analysis? \boxtimes yes □no \square NA □ves If not, are all discrepancies footnoted? □no 15.) For SVOC's, is there one method blank for each extraction batch? \boxtimes yes □no \square NA If not, are all discrepancies footnoted? □yes □no Accuracy 16.) Is there a surrogate spike recovery for all VOC & SVOC samples? ⊠no \square NA □yes Recovery fell outside of control limits due to sample matrix effects. (ip) \boxtimes yes Do all surrogate spike recoveries meet accepted criteria? □no □yes \boxtimes NA If not, are all discrepancies footnoted? □no 17.) Is there a spike recovery for all Laboratory Control Samples? \boxtimes yes □no \square NA ⊠ves Do all LCS/LCSD spike recoveries meet accepted criteria? □no If not, are all discrepancies footnoted? □yes □no $\boxtimes NA$ 18.) Are all LCS/LCSD RPDs within acceptable limits? \boxtimes yes □no \square NA If not, are all discrepancies footnoted? □yes □no $\boxtimes NA$ Precision 19.) Are all matrix spike/matrix spike duplicate recoveries within acceptable limits? □yes \square NA \boxtimes no If not, are all discrepancies footnoted? ⊠ves □no \square NA The values reported for dichlorodifluoromethane and chloromethane fell outside the control limits established for these analytes. The analytes were not detected therefore the data were acceptable. (vo)

20.) Are all matrix spike/matrix spike duplicate RPDs within

acceptable limits?			□yes	⊠no	□NA
If not, are all discrepancies footno	ted?		⊠yes	□no	□NA
Barium was spiked at a level that was le meaningful. (b)	ss than five times that present i	n the sample. Ma	atrix spik	e recover	ies may not be
Several analytes reported values that fe therefore the data were acceptable. (vo		rol limits. The an	alytes we	ere not de	etected
21.) Do all RPD calculations for Field Du	plicates meet accepted criteria	?	□yes	□no	⊠NA
Comments:					
The calibration results for arsenic and so reported is an estimate. The sample wa	•				The value
Sample B06-1 was diluted. Detection lin	nits were raised, and surrogate	recoveries may n	ot be me	aningful.	(d)
The internal standard associated with m	nercury is out of control limits. T	he reported cond	centratio	n is an es	timate. (J)
The 1-methylnaphthalene in the 8270E acceptance criteria. (jl).	laboratory control sample and la	aboratory contro	l sample	duplicate	e exceeded the
Gasoline was not detected in one or mothe RPD is not applicable. (nm)	re of the duplicate analyses for	method NWTPH	-Gx. Ther	efore, ca	lculation of
Sample B06-1 was received in a contain estimate. (pc)	er not approved by method 826	0D. The value re	ported sh	ould be	considered an
The chromatographic patterns of multip	ole samples did not resemble the	e diesel fuel stan	dard use	d for qua	ntitation. (x)
Initial Review Bv: LP	1	Final Review Bv:	EB		