

GROUND WATER MONITORING: SECOND QUARTER 2022



FUTURE KIDDIE ACADEMY PROPERTY

8701 Greenwood Avenue North Seattle, WA 98103

Prepared for:



Attn: Maninder Singh

1260 NE 85th Street Suite-108 Kirkland, Washington 98033

Issued on:

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EVREN NORTHWEST, INC. Project No. 1581-21001-02

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8701 Greenwood Avenue North Seattle, Washington 98103

Report for:

KIDDIE SACADEMY EDUCATIONAL CHILD CARE **Attn: Maninder Singh** 12620 NE 85th Street Suite-108 Kirkland, Washington 98033

and its assignees

Issued May 9, 2022 by:

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GROUND WATER: SECOND QUARTER 2022

Future Kiddie Academy Property, Seattle, Washington

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List of Acronyms and Abbreviations

Amsl	above mean sea level
bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, xylenes
BTOC	Below Top of Casing
Client	Kiddie Academy
COPCs	constituents of potential concern
CSM	conceptual site model
CUL	cleanup level
cVOC	chlorinated volatile organic constituent
DO	dissolved oxygen
DRO	diesel-range organics
Ecology	Washington Department of Ecology
ENW	EVREN Northwest, Inc.
EPA	US Environmental Protection Agency
F&BI	Friedman and Bruya, Inc.
Ft/ft	feet per foot
GRO	gasoline-related organics
LNAPL	light non-aqueous phase liquid
mg/L	milligrams per liter
mV	millivolts
µg/L	micrograms per liter
μS/cm	microsiemens per centimeter
MTCA	Model Toxics Control Act
ORP	oxidation-reduction potential
PAH	polynuclear aromatic hydrocarbon
PE	polyethylene
PQL	practical quantification limit
RRO	residual(oil)-range organics
SOW	scope of work
тос	top of casing
ТРН	total petroleum hydrocarbons
VOCs	volatile organic constituents
WAC	Washington Administrative Code

1.0 Introduction

At the request of Kiddie Academy (Client), EVREN Northwest, Inc. (ENW) conducted ground-water monitoring at the commercial property located at 8701 Greenwood Avenue North in Seattle, Washington (subject property; see Figures 1 and 2). The scope of work completed during this investigation further assesses the data gaps identified in ENW's Work Plan¹ to fulfill Washington Department of Ecology's (Ecology's) change of use requirements² pursuant to Client's plans to redevelop the subject property as a child daycare facility.

This report summarizes previous environmental work and describes the ground water monitoring scope of work, findings, and conclusions. This work was authorized by Client on December 29, 2021.

2.0 Background

Site background is detailed in ENW's previously submitted work plan.¹ Based on this history, ENW prepared the *Data Gap Investigation Work Plan* (Work Plan),¹ which is the basis of the scope of work (SOW) outlined in the following section and followed in the ground water sampling activities presented in this report.

2.1 Purpose

The SOW described below was designed to address Ecology's comments as outlined in ENW's *Work Plan*¹ and support state cleanup requirements of Ecology's Model Toxics Control Act (MTCA), Chapter 70.105D RCW, and its implementing regulations, Chapter 173-340 Washington Administrative Code (WAC).

2.2 Scope of Work

This work was performed in accordance with the SOW provided in ENW's proposal dated December 7, 2021.

The SOW included the following tasks:

- Prepared an internal Sample/Analysis Plan for sample collection.
- Gauged water levels in 12 monitoring wells (Well-2 through Well-13) and used low-flow purge and sampling methodology to sample each well.
- Submitted samples to an independent laboratory for analysis.
- Evaluated analytical data against MTCA Method A and B cleanup levels.
- Completed this report describing the above activities and findings.

¹ ENW, December 8, 2021. December 2021 Work Plan for Focused Data Gap Investigation, Future Kiddie Academy, Former Texaco #2111544, 8701 Greenwood Avenue North, Seattle, Washington, Facility/Site ID# 6416: Prepared for Kiddie Academy.

² Ecology, March 8, 2021. Response to Change of Use Request at the Following Cleanup Site: Name: Texaco 211544, Address: 8701 Greenwood Ave N, Seattle, Washington, Facility/Site No.: 63538329, Cleanup Site ID No.: 6416.

Appendix A presents photos of work conducted on site during this SOW.

3.0 Site Setting

A conceptual site model (CSM) is presented in ENW's *Work Plan*.¹ Key elements of the CSM are summarized in this section.

Site and Vicinity General Description. The subject property is located on the northwest corner of the intersection of Greenwood Avenue N and N 87th Street in the Greenwood neighborhood of North Seattle, Washington. The site is located approximately six miles north-northwest of downtown Seattle, Washington and approximately four miles west of Lake Washington. The King County Assessor's Office identifies the site as parcel number 2920700030 and describes the property as rectangular in shape and 32,728 square feet in area.

The subject property is in a mixed residential and commercial area of King County. The site is bordered to the north by single-family residences, west by an alley beyond which are single-family residences, to the east by Greenwood Avenue North, beyond which is a vacant commercial building and parking lot, and to the south by N 87th Avenue, beyond which is a multi-family residential building and street-level retail businesses.

The subject property was developed in 1997 with the current commercial building in the southern portion of the site. Other site improvements include an asphalt-paved parking lot in the northern portion of the site, drainage features and landscaped areas.

Geographic Setting. According to the U.S. Geological Survey Seattle North, Washington 7.5-minute quadrangle (Figure 1), the subject property lies at an approximate elevation of 260 feet above mean sea level (amsl). Topography in the area of the subject property is indicated as sloping gently to the west-southwest.

Geologic Setting. Seattle is within the Puget Lowland, an elongate structural and topographic basin between the Cascade Range and Olympic Mountains. The Seattle area has experienced repeated glacial advancements during the past 2 million years causing cyclic glacial scouring and deposition and later modified by landsides and stream erosion. Seattle is located on a complex succession of glacial and nonglacial deposits that overlie an irregular bedrock surface. According to the Geologic Map of Northeastern Seattle (Part of the Seattle North 7.5' x 15' Quadrangle),³ the upper most geology beneath the site is mapped as Holocene age Peat deposits, which are accumulations of wood and other plant material forming layers of greater than about 1 meter and of mappable extent. These units are gradational within other non-glacial deposits. The mapped stratigraphy underlying these surficial deposits are mapped as Pleistocene age glacial deposits consisting of glacially transported silt, sand and subrounded to well-rounded gravel.

Previous investigations have identified a silt and peat layer present between approximately seven and 15 feet bgs that appears to act as a confining layer separating lower saturated soils from the overlying vadose

³ Booth, D.B., Goetz, K., Schimel, S.A., 2009, Geologic Map of Northeastern Seattle (Part of the Seattle North 7.5' x 15' Quadrangle), King County, Washington: U.S. Geological Survey Scientific Investigations Map 3065, Map 1:24,000.

zone. Between 14 and 17 feet below ground surface (bgs) across the site there is a transition to a gray gravel/silt hard pan layer with relatively high density compared to overlying native sediments.

Hydrogeology. No surface water bodies, lagoons, or manmade drainages are located on the subject property. The nearest surface water body is Green Lake, located approximately 0.95 miles southeast of the site. Well log data in the area indicates ground water occurs as shallow as 4 feet bgs. Previous investigations reported first ground water in borings occurring at the site between nine and 17 feet bgs. Shallow ground water has been reported to occur within a silty/sandy layer located directly above a sand and gravel hardpan layer at depth. Shallow ground water table recharged primarily by infiltrating precipitation during the wet season. At the subject site, first ground water was generally encountered within silts and sands below the overlying peat layer. Ground water has been reported to recharge slowly into existing monitoring wells. Stabilized static ground water levels in monitoring wells have been reported ranging from approximately 0.0 feet bgs to 7 feet bgs.

Constituents of Potential Concern (COPCs). According to ENW's Work Plan,¹

- On-site dry-cleaning-related COPCs include gasoline-range organics (GRO), diesel-range organics (DRO), and chlorinated volatile organic constituents (cVOCs).
- On-site gasoline service station-related COPCs and off-site COPCs from the north-adjoining property include GRO, DRO, residual(oil)-range organics (RRO), volatile organic constituents (VOCs), and polynuclear aromatic hydrocarbons (PAHs).

Nature and Extent and Associated Data Gaps. Data gaps¹ being addressed in this SOW are associated with the nature and extent of petroleum impacts in ground water, ground-water gradient and flow direction, and seasonal effects on ground water constituent concentrations as follows:

- **Ground Water**. Shallow reconnaissance ground water samples reported GRO, benzene and vinyl chloride at concentrations above MTCA Method A cleanup level (CUL) in Partner's boring B2 (proposed outdoor play area). Benzene, DRO and RRO were also present in temporary wells in Partner borings B4 and B5, located at the central portion of the north property boundary and along the west side of the on-site commercial building (Figure 3).
 - Four quarters of ground water monitoring of 12 on-site monitoring wells (Well-2 through Well-13) are proposed to establish a hydraulic gradient and ground water flow direction, and evaluate seasonal effects on dissolved constituent concentrations at the north-adjoining property boundary (Well-6, Well-8, and Well-12), within and downgradient of the proposed play area (Well-4, Well-5, and Well-13), the former dry cleaner area (Well-10 and Well-11), and west and southwest of the on-site commercial building (Well-2 and Well-3).

4.0 Additional Work Completed During 2nd Quarter 2022

The following remedial actions were completed in addition to the quarterly ground water monitoring and sampling activities conducted during the 2nd Quarter 2022.

ROW Investigation (March 2022). Three exploratory soil borings (EB01 through EB03) were installed in the right-of-way (ROW) near the southeast corner of the subject site as one of the components of ENW's

Data Gap Work Plan. The work further investigated the extent of residual soil impacts encountered within a former utility excavation ("Excavation 1B)" in which shallow soils were impacted at concentrations exceeding MTCA Method A cleanup levels.

Boring EB01 was advanced in the zone of highest reported soil impacts within the former excavation footprint, boring EB02 was advanced several feet southeast of EB01, and EB03 was advanced on the south side of N 87th Street, directly south-southeast of EB01.

GRO- and DRO-impacted soils were encountered in boring EB01 at approximately 9 feet bgs, consistent with previous results. GRO and DRO impacts decreased with depth and were absent in a soil sample collected at 14 feet bgs, suggesting the vertical extent of impacts has been delineated beneath the reported zone of greatest impact. Neither GRO nor DRO were detected in borings EB02 or EB03.

Low concentrations of DRO were detected in a reconnaissance ground water sample collected from EB01 but the reported DRO concentration was less than the MTCA Method A CUL. No DRO impacts were reported in reconnaissance ground water samples in the remaining two borings after filtering samples through a silica gel column.

A full description of investigative tasks and results has been submitted to Ecology in a report titled "Focused Right-of-Way Investigation," dated April 7, 2022. ⁴

Monitoring Well Repair and Redevelopment (Legacy Well MW-8). ENW understands that a monitoring well from previous investigations was left in place as a sentry well in the southwest corner of the subject property. The well has remained in disrepair and has not been included in recent ground water monitoring and sampling.

To rehabilitate the damaged well for possible future sampling, on April 21, 2022, ENW repaired the damaged casing of monitoring well MW-8 and redeveloped the well using a process of surging and pumping. Ground water and total well depths gauged after opening the cap and allowing the well to stabilize were 2.6 feet and 8.8 feet below the repaired top of casing (TOC), respectively. After the well was surged with a 2-inch surge block for 15 minutes, a Waterra pump was used to remove turbid water and sediment. After removing 15 gallons of water, the well went dry and a new total depth was tagged at 18.5 feet below TOC (BTOC). After adding 5 gallons of deionized water to the well, depth to water rose to 11.2 feet BTOC. The well was surged again for 5 minutes, and more water removed from the well. After purging a total of 20 gallons of water. Thus, it appeared that these well redevelopment activities successfully removed sediment from this well. Redevelopment measurements are included on the Well Development Measurements form in Appendix B.

Monitoring well MW-8 will be gauged and sampled during the Third Quarter 2022 ground water monitoring event.

⁴ ENW, April 7, 2022. Focused Right-of-Way Investigation, Future Kiddie Academy, Former Texaco #2111544, 8701 Greenwood Avenue North, Seattle, Washington, Facility/Site ID# 6416: Prepared for Kiddie Academy.

5.0 Methods

This section describes the methods used to conduct the SOW. Field activities for this project are documented in the photographic log included as Appendix A.

5.1 Work Objectives

Field work performed for this project was developed with the following specific objectives:

- To sample and evaluate ground water beneath the subject site from the shallow ground water table.
- To perform ground water monitoring in a safe manner for technical personnel.
- To conduct the work efficiently and cost-effectively, without interfering or otherwise affecting the condition and operation of the property.
- To document information and data generated in a professional manner that is valid for the intended use.

The remainder of this section describes the methods and procedures used for this investigation. A photographic log of all the field work is presented in Appendix A, Field Data Sampling Sheets are included in Appendix B, and laboratory analytical reports are included in Appendix C. Findings are presented in Section 6.

5.2 Preparation Activities

ENW performed or coordinated the following activities prior to conducting site characterization activities:

Plan Preparation. An in-house Sampling and Analysis Plan was 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.

Planning. ENW scheduled and coordinated with the Client to begin site work.

5.1 Ground Water Sample Collection

Immediately following purging, ground water samples were collected using clean, dedicated PE tubing connected to a peristaltic pump set at its lowest setting (approximately 0.1 to 0.2 liters per minute), with the exception of Well-4, which had to be pumped at a higher rate to prevent artesian flow into the well monument. Samples were transferred slowly into laboratory-supplied containers minimizing turbulence. Samples for VOC analysis were confirmed to contain no air bubbles within the container before sealing. Each sample container was labeled with the sample identification, date, time, and sampler.

Samples were immediately placed in cooled storage pending delivery to the laboratory under chain-ofcustody protocols. All analyses were performed by Friedman & Bruya, Inc. (F&BI), of Seattle, Washington, using the US Environmental Protection Agency (EPA) Methods specified below. The laboratory report and chain-of-custody documents are presented in Appendix C.

5.2 Waste Management and Disposal

Purge and decontaminate water generated during sampling activities were placed into a 55-gallon drum, labeled, and left on-site in a secure location pending receipt of sample laboratory results. Sampling gloves, rags, and tubing were disposed of as solid waste.

5.3 Analytical Methods

Samples were analyzed according to the analytical methods presented in Table 4-1. Samples were analyzed by F&BI of Seattle, Washington. The laboratory analytical reports are included in Appendix C.

Analytical Method	Constituents	Ground Water
NWTPH-Gx	Total Petroleum Hydrocarbons (TPH)–gasoline-range quantification (GRO)	All ground water monitoring wells
NWTPH-Dx	Total Petroleum Hydrocarbons (TPH)–Diesel-range quantification (DRO) and Residual oil-range quantification (RRO)	All ground water monitoring wells
EPA 8260B	Petroleum-related Volatile Organic Compounds (benzene, ethylbenzene, EDB, MTBE, toluene, total xylenes)	All ground water monitoring wells
EPA 8260B	Chlorinated Volatile Organic Compounds	Select ground water monitoring wells (Well-03, -04 and -10)
EPA 8270D SIM	Carcinogenic Polynuclear Aromatic Hydrocarbons (cPAHs)	All ground water monitoring wells
EPA 6020 ⁵	Total lead and cadmium	Select ground water monitoring wells (Well-12)

5.4 Cleanup Standards

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

Method A: Method A provides tables of cleanup levels that are protective of human health for the most common hazardous substances found in soil and ground water at sites. Note that these levels were developed by procedures of Method B. The Method A cleanup must meet the concentrations listed in the Method A table and, if not listed in the table, the concentration standards established under applicable state or federal laws. If neither the Method A table nor applicable state and federal laws provide an appropriate cleanup level, then natural background

⁵ Cadmium and lead analysis requested by Ecology in an email dated April 25, 2022. The stated purpose of additional analysis was to characterize ground water contaminants migrating onto the subject site from the SMI cleanup property to the north (up gradient of the subject site).

concentration or the practical quantification limit (PQL) may be used as the cleanup level. Method A is the simplest, most streamlined approach to cleanup, but is meant to be applied with sites that have releases of only a few, common, hazardous substances.

Method B: Method B provides cleanup levels using risk assessment equations developed for various exposure pathways, as well as by using standards specified by applicable state and federal laws. Standard Method B uses generic default assumptions; Modified Method B uses chemical-specific and/or site-specific parameters in calculating the cleanup levels. Natural background concentrations and PQLs are also considered in this method. Method B is considered the universal approach to site closure and is the method most commonly used.

6.0 Ground Water Monitoring

6.1.1 Water Level Measurements

On April 21, 2022:

- All well monuments were opened and well casing expanding plugs removed to allow water levels to equilibrate to ambient barometric pressure.
- Following equilibration, static water levels were measured in each well (prior to sample collection).
 - Depth to water in monitoring wells WELL-1 through WELL-13 ranged from 0.00 feet (Well-4, -5, -7, -11 and -13) to 2.64 feet (Well-2) below TOC.
- Inferred ground water elevation contours (presented on Figure 3) suggest a west-southwesterly ground water flow direction across the site, with flow in the northern portion of the site exhibiting a more westerly flow direction and the southern portion of the site exhibiting a more southwesterly flow direction. The hydraulic gradient across the northern part of the site was estimated at 0.062 vertical feet per lineal foot (ft/ft) and in the southern part of the site was estimate at 0.050 ft/ft, suggesting a fairly consistent flow gradient across the site.

Water level data was recorded onto Ground Water Sampling Field forms included in Appendix B. Table 1 (behind "Tables" tab after text) presents a summary of monitoring well TOC elevations,⁶ depths to ground water, and the calculated water level elevations for previous monitoring events.

6.2 Monitoring Well Sampling

To produce representative samples, the wells were purged using a low-flow peristaltic pump and dedicated polyethylene (PE) tubing, recording various water quality parameters [pH, temperature, oxidation-reduction potential (ORP), dissolved oxygen (DO), turbidity, and conductivity] until stabilized. The results were recorded onto Ground Water Sampling Field Forms which are included in Appendix B.

⁶ The tops of casing of all wells have been surveyed to within 0.01 foot relative to mean sea level established by the City of Seattle benchmark #SNV-7595.

6.2.1 Water Quality Parameters

Table 2 (behind "Tables" tab after text) presents a summary of water quality parameters collected during purging during the second quarter 2022. In general:

- Temperature ranged from 11.12 (Well-2) to 15.59 °C (Well-13).
- Electrical conductivity is a measure of groundwater's ability to carry an electrical current. Greater conductivity suggests a greater concentration of ions and charged molecules in ground water, including chloride and reduced metals. Conductivity ranged from 279 (WELL-10) to 336 (WELL-2) microsiemens per centimeter (μS/cm).
- DO ranged from 0.12 milligrams per liter (mg/L) in Well-4 to 0.57 mg/L in Well-9.
 - Typically, concentrations of DO greater than 1 mg/L are suggestive of aerobic conditions. None of the monitoring wells are currently aerobic based on DO concentrations.
- pH measurements ranged between 7.09 (WELL-3) and 8.05 (WELL-8), which is at the middle to upper range of pH of natural waters (6 to 9) in Washington.
- ORP ranged from -149 (WELL-7) to 231 (WELL-8) millivolts (mV).
 - Positive ORP readings generally suggest oxidizing conditions, which is conducive to degradation of petroleum hydrocarbons. ORP is currently negative in wells WELL-2, WELL-5, WELL-7, WELL-9, WELL-11, and WELL-13. ORP is difficult to measure in the field and additional data will be needed to determine trends in ORP at each location.

6.3 Laboratory Analytical Results

Table 3 (behind "Tables" tab after text) presents cumulative analytical results for ground water samples collected from WELL-2 through WELL-13, and screens laboratory results against generic MTCAL CULs.

Summary of second quarter 2022 analytical results:

- Total Petroleum Hydrocarbons (as GRO, DRO and RRO). DRO and/or RRO were previously detected by others in monitoring wells WELL-2, -3, -5, -7, -8, -9, -10 and -11, of which only the detection of RRO in monitoring well WELL-3 exceeded its respective MTCA Method A CUL. During this current monitoring event only DRO was detected and only in monitoring well WELL-11 in the north-central portion of the subject site and at a concentration below the MTCA Method A CUL. The laboratory reported that the sample chromatogram pattern for this DRO detection does not resemble the fuel standard used for quantitation and that based on further evaluation the chromatogram is suggestive of "typical organics/fuel metabolite pattern and is not indicative of any fuel patterns", suggesting the detection is likely related to matrix interference. These results are generally consistent with data collected over the previous three quarterly monitoring events and appears to suggest the previous exceedance is a possible outlier.
- **VOCs.** All wells were analyzed for gasoline-related VOCs (BTEX, EDB, EDC, and MTBE) and select wells were analyzed for a broader suite of VOC constituents, including dry-cleaning related halogenated VOCs. Naphthalene was the only VOC detected and only in Well-11 at a concentration less than MCTA Method A and B CULs.

- PAHs. Several PAHs were detected, though only one PAH constituent (1-methylnaphthalene) was detected at a concentration exceeding its MTCA Method B CUL. The detection was in monitoring well WELL-11 and is located in the north-central portion of the site. The concentration detected (1.8 μg/L) only slightly exceeded its CUL (1.5 μg/L) and was reported by the laboratory as an estimated concentration. Additional data will be needed to confirm whether 1-methylnaphthalene is present at this location at concentrations above its MTCA Method B CUL.
- **Metals.** The ground water sample from Well-12 was analyzed for cadmium and lead to further assess potential impacts migrating onto the subject property from the adjoining property to the north. Laboratory analysis did not detect either metal constituent above laboratory MRLs.

6.4 Quality Control / Quality Assurance

The laboratory results of quality control samples are presented on Table 3 and summarized below.

- **Trip Bank.** All GRO-related VOCs were "non-detect," suggesting the samples were not affected by VOCs during storage on the site and during transport to the laboratory.
- Blind Sample Duplicate. Laboratory analysis of a blind sample duplicate collected from monitoring well WELL-4 (sample "MWFD") reflected a relative percent difference (RPD) of up to 15% for all constituents. Generally, an RPD of 20% represents the limit of acceptable variance for duplicate samples. Results of the quality control samples for all constituents suggest that the accuracy and precision of both field and laboratory testing methods are within the data quality objectives.

7.0 Discussion of Findings

Ground Water Plume Delineation. Ground water flow during this event was generally west- to southwesterly beneath the site. No constituents were detected in down gradient wells to the west or southwest of historical source areas on the subject site. Based on currently available data, only one monitoring well location (Well-11) was reported with constituent detections exceeding CULs. During this quarterly monitoring event, 1-methylnaphthalene exceeded its CUL in WELL-11, which is in the central portion of the site. It is possible that the presence of 1-methylnaphthalene and related petroleum constituents is the result of migration of dissolved contaminants in ground water from the north-adjoining cleanup site.

In an email correspondence dated April 25, 2021, Ecology suggested the installation of an additional ground-water monitoring well in the southeast corner of the property. Following discussions with the property owner, ENW plans to install this additional monitoring (concurrent with other additional borings requested by Ecology prior to the third quarter 2022 monitoring event.

8.0 Proposed Monitoring Activities

In consideration of recent ground water monitoring results and Ecology's suggestions for further investigation, the following activities are proposed for the next quarter:

- Install a permanent monitoring well in the existing area of impacted soil in the southeast corner of the site to help in understanding the ground water gradient and flow direction in this area.
- Install an additional boring on the west side of the site to analyze soil in the vicinity of the former waste oil tank for compounds listed in Table 830.1 of the MTCA Rule and Table 7.2 in the Remediation of Petroleum Contaminated Sites Guidance.
- Install an additional boring along the eastern margin of the site (adjacent to Greenwood Avenue) to better bound the northern and eastern extent of contaminated soil in the loading dock area reported during excavations in 1996.
- Calculate a Method B cleanup level by performing EPH/VPH analyses on soil samples with concentrations TPH-Gx and TPH-Dx above Method A. ENW has requested the lab to run the EPH/VPH analysis on the sample previously collected in EB-1 collected during the right-of-way investigation.
- Based on the results of the Site Hazard Assessment for the SMI, Inc. Trust Site, located north of the subject property, include analysis of dissolved cadmium and lead in Well-12.

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

- Naturally occurring toxic or hazardous substances in the subsurface soils, geology, and water,
- Toxicity of substances common in current habitable environments, such as stored chemicals, products, building materials and consumables,
- Contaminants or contaminant concentrations that are not a concern now but may be under future regulatory standards,
- 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.

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.

Monitoring Well Designation	Date	Surveyed Top of Casing (TOC) Elevation (feet AMSL) ¹	Depth to Water (DTW) (feet below TOC)	Relative Elevation (feet)
WELL-2	1/26/2022	255.26	2.78	252.48
	4/21/2022	200.20	2.64	252.62
		Minumum	2.64	252.48
		Maximum	2.78	255.26
WELL-3	1/26/2022	259.53	1.54	257.99
VVELL-3	4/21/2022	239.55	1.39	258.14
		Minumum	1.39	257.99
		Maximum	1.54	259.53
	1/26/2022	057.50	0.00	257.52
WELL-4	4/21/2022	257.52	0.00	257.52
		Minumum	0.00	257.52
		Maximum	0.00	257.52
	1/26/2022	050.00	0.02	258.20
WELL-5	4/21/2022	258.22	0.00	255.26
		Minumum	0.00	255.26
		Maximum	0.02	258.20
	1/26/2022		1.05	258.26
WELL-6	4/21/2022	259.31	0.87	258.44
	1/21/2022	Minumum	0.87	258.26
		Maximum	1.05	259.31
	1/26/2022		0.00	260.39
WELL-7	4/21/2022	260.39	0.00	260.39
	4/21/2022	Minumum	0.00	260.39
		Maximum	0.00	260.39
	1/26/2022	IVIAAIITIUTT	2.31	261.11
WELL-8	4/21/2022	263.42	2.31	261.32
	4/21/2022	Minumum	2.10	261.11
		Minumum Maximum	2.10	263.42
	1/26/2022	IVIdAIITIUTT	1.48	261.26
WELL-9		262.74		
	4/21/2022	Minumum	1.51	261.23
				261.23
	4/00/0000	Maximum	1.51 0.10	262.74
WELL-10	1/26/2022	261.52		261.42
	4/21/2022	Minung	0.35	261.17
		Minumum	0.10	261.17
	4/00/0000	Maximum	0.35	261.52
WELL-11	1/26/2022	261.05	0.05	261.00
	4/21/2022	N 4'	0.00	261.05
		Minumum	0.00	261.00
	4/00/0000	Maximum	0.05	261.05
WELL-12	1/26/2022	261.11	0.95	260.16
	4/21/2022		0.50	260.61
		Minumum	0.50	260.16
		Maximum	0.95	261.11
WELL-13	1/26/2022	258.39	0.00	258.39
	4/21/2022		0.00	258.39
		Minumum	0.00	258.39
		Maximum 5 2022 relative to NAD8	0.00	258.39

1 Survey conducted on March 15, 2022 relative to NAD83 and NAVD88.

TOC = top of casing

		Temp	Specific Conductivity	Dissolved Oxygen		Oxidation- Reduction Potential	Turbidity
Well ID	Date	(°C)	(µS/cm)	(mg/L)	рН	(mV)	(NTU)
WELL-2	1/26/2022	8.99	317	1.15	6.81	-22	102
	4/21/2022	11.12	336	0.36	7.49	-105	29.2
	Minumum	8.99	317	0.36	6.81	-105	29.2
	Maximum	11.12	336	1.15	7.49	-22	102
WELL-3	1/26/2022	10	277	1.34	7.85	-339	139
	4/21/2022	13.36	280	0.33	7.09	8.3	1.77
	Minumum	10	277	0.33	7.09	-339	1.77
	Maximum	13.36	280	1.34	7.85	8.3	139
WELL-4	1/26/2022	11.68	278	1.22	7.78	-643	139
	4/21/2022	11.93	283	0.12	7.63	1.7	21.01
	Minumum	11.68	278	0.12	7.63	-643	21.01
	Maximum	11.93	283	1.22	7.78	1.7	139
WELL-5	1/26/2022	12.50	278	1.24	7.65	-379	139
	4/21/2022	14.14	291	0.31	7.84	-147	25.4
	Minumum	12.50	278	0.31	7.65	-379	25.4
	Maximum	14.14	291	1.24	7.84	-147	139
WELL-6	1/26/2022	9.19	282	0.88	7.22	72	23.4
	4/21/2022	12.23	284	0.33	7.66	162.9	3.43
	Minumum	9.19	282	0.33	7.22	72	3.43
	Maximum	12.23	284	0.88	7.66	162.9	23.4
WELL-7	1/26/2022	11.69	286	1.38	7.61	-348	143
	4/21/2022	14.35	301	0.40	7.79	-149	23.8
	Minumum	11.69	286	0.40	7.61	-348	23.8
	Maximum	14.35	301	1.38	7.79	-149	143
WELL-8	1/26/2022	10.43	279	0.59	7.23	90	15.9
	4/21/2022	12.15	285	0.30	8.05	231	1
	Minumum	10.43	279	0.30	7.23	90	1
	Maximum	12.15	285	0.59	8.05	231	15.9
WELL-9	1/26/2022	11.00	281	1.33	7.13	-204	140
	4/21/2022	13.12	298	0.57	7.74	-127	19
	Minumum	11.00	281	0.57	7.13	-204	19
	Maximum	13.12	298	1.33	7.74	-127	140
WELL-10	1/26/2022	9.36	282	0.44	7.09	-124	18.1
	4/21/2022	13.75	279	0.19	7.87	57.1	0
	Minumum	9.36	279	0.19	7.09	-124	0
	Maximum	13.75	282	0.44	7.87	57.1	18.1
WELL-11	1/26/2022	9.21	287	0.76	7.05	-142	3.6
	4/21/2022	13.34	285	0.34	7.66	-2.5	0
	Minumum	9.21	285	0.34	7.05	-142	0
	Maximum	13.34	287	0.76	7.66	-2.5	3.6
WELL-12	1/26/2022	9.61	284	0.80	7.21	20	14.5
	4/21/2022	13.05	286	0.26	8.03	106.3	0
	Minumum	9.61	284	0.26	7.21	20	0
	Maximum	13.05	286	0.80	8.03	106.3	14.5
WELL-13	1/26/2022	11.13	277	0.60	7.19	-61	19.6
	4/21/2022	15.59	284	0.33	7.85	-145	6.7
	Minumum	11.13	277	0.33	7.19	-145	6.7
	Maximum Banga af	15.59	284	0.60	7.85	-61	19.6
			Geochemistry				0.0
	Minumum	8.99	277	0.12	6.81	-643	0.0 143
°C = degrees	Maximum	15.59	336	1.38	8.05	231	143

°C = degrees Celsius

 μ S/cm = microsiemens per centimeter

mV = millivolt

NTU = Nephelometric Turbidity Unit

Table 3 - Summary of Analytical Data, Ground Water (Monitoring Wells)

	Location ID	Well-2	Well-2	Well-2	Well-3	Well-3	Well-3	Well-4	Well-4	Well-4	Well-5	Well-5	Well-5	Well-6	Well-6	Well-6	Well-7	Well-7	Well-7
	Sample ID	Well #2	WELL-2-220126	WELL-2-220421	Well #3	WELL-3-220126	WELL-3-220421	Well #4	WELL-4-220126	WELL-4-220421	Well #5	WELL-5-220126	WELL-5-220421	Well #6	WELL-6-220126	WELL-6-220421	Well #7	WELL-7-220126	-
	ate Sampled	5/4/2021	1/26/2022	4/21/2022	5/4/2021	1/26/2022	4/21/2022	5/4/2021	1/26/2022	4/21/2022	5/4/2021	1/26/2022	4/21/2022	5/4/2021	1/26/2022	4/21/2022	5/4/2021	1/26/2022	4/21/2022
Da	Sampled Sampler	5/4/2021 ES	ENW	4/21/2022 ENW	5/4/2021 ES	ENW	4/21/2022 ENW	5/4/2021 ES	1/20/2022 ENW	4/21/2022 ENW	ES	1/20/2022 ENW	4/21/2022 ENW	ES	1/20/2022 ENW	4/21/2022 ENW	5/4/2021 ES	ENW	4/21/2022 ENW
	Sampler	L3	LINVV	LINV	L3	LINVV	LINW	L3	LINVV	LINVV	L3	LINV	LINVV	L3	LINVV	LINVV	L3	LINVV	
		Southwest Corn	er Southwest Corner	Southwest Corner	West of Building.	West of Building,	West of Building.	South of	South of	South of	Proposed Play	Proposed Play	Proposed Play	North Parking	North Parking	North Parking	North Parking	North Parking	North Parking
		of Site	of Site	of Site	Next to Alley	Next to Alley	Next to Alley	Proposed Play	Proposed Play	Proposed Play	Area	Area	Area	Area - Northwest	Area - Northwest	Area - Northwest	Area - Center	Area - Center	Area - Center
	Location	0. 0.10	01 0110	0. 0.10		i toki to i aloj		Area	Area	Area	7404	71104	7.000	Corner	Corner	Corner			
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)	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 (VOCs)		F3/= (FF~)	F3/ - (FF - /	P 5 = (PP =)	P 5/ = (PP +)	P3 - (FF-)	P3/= (PP*/	F3/- (FF-7)	F9 - (FF~)	P 5 = (PP =)	F3/ - (FF-/	P 3/ = (PP = /	P3/= (PP-/)	F3/- (FF-)	PS = (PP=)	F9 - (FF-7)	P3/= (PP*/	F3/- (FF-/)	P3(= (PP*)
Benzene	C, V	<1 (ND)	<0.35 (ND)	<0.35 (ND)	<1 (ND)	<0.35 (ND)	<0.35 (ND)	<1 (ND)	<0.35 (ND)	<0.35 (ND)	<1 (ND)	<0.35 (ND)	<0.35 (ND)	<1 (ND)	<0.35 (ND)	<0.35 (ND)	<1 (ND)	<0.35 (ND)	<0.35 (ND)
Ethyl Chloride	C. V	/					<1 (ND)			<1 (ND)									
Dichlorobenzene;1,4-	C, V						<1 (ND)			<1 (ND)									
Dichloroethylene;1,1-	nc, v		<1 (ND)			<1 (ND)	<1 (ND)		<1 (ND)	<1 (ND)		<1 (ND)			<1 (ND)			<1 (ND)	
Dichloroethylene;1,2-,cis	nc, v					<1 (ND)	<1 (ND)		<1 (ND)	<1 (ND)								(
Dichloroethylene;1,2-,trans	nc, v					<1 (ND)	<1 (ND)		<1 (ND)	<1 (ND)									
Methylene Chloride	C, V					<5 (ND)	<5 (ND)		<5 (ND)	<5 (ND)									
Ethylene dibromide (EDB)	C, V		<1 (ND)	<1 (ND)		<1 (ND)	<1 (ND)		<1 (ND)	<1 (ND)		<1 (ND)	<1 (ND)		<1 (ND)	<1 (ND)		<1 (ND)	<1 (ND)
Dichloroethane;1,2- (EDC)	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)		<0.2 (ND)	<0.2 (ND)
Ethylbenzene	C, V	<1 (ND)	<1 (ND)	<1 (ND)	1	<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)	<1 (ND)
Methyl tert-butyl ether (MTBE)	C, V		<1 (ND)	<1 (ND)		<1 (ND)	<1 (ND)		<1 (ND)	<1 (ND)		<1 (ND)	<1 (ND)		<1 (ND)	<1 (ND)		<1 (ND)	<1 (ND)
Naphthalene	nc, v		<0.4 (ND)	<1 (ND)		<0.4 (ND)	<1 (ND)		<0.4 (ND)	<1 (ND)		<0.4 (ND)	<1 (ND)		<0.4 (ND)	<1 (ND)		<0.4 (ND)	<1 (ND)
Cumene	nc, v			<1 (ND)			<1 (ND)			<1 (ND)			<1 (ND)			<1 (ND)			<1 (ND)
Propylbenzene, n-	nc, v			<1 (ND)			<1 (ND)			<1 (ND)			<1 (ND)			<1 (ND)			<1 (ND)
Tetrachloroethylene (PCE)	C, V					<1 (ND)	<1 (ND)		<1 (ND)	<1 (ND)									
Toluene	nc, v	<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)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)
Trichloroethane;1,1,1-	nc, v					<1 (ND)	<1 (ND)		<1 (ND)	<1 (ND)									
Trichloroethylene (TCE)	C, V					<0.5 (ND)	<0.5 (ND)		<0.5 (ND)	<0.5 (ND)									
Trimethylbenzene;1,2,4-	nc, v			<1 (ND)			<1 (ND)			<1 (ND)			<1 (ND)			<1 (ND)			<1 (ND)
Trimethylbenzene;1,3,5-	nc, v			<1 (ND)			<1 (ND)			<1 (ND)			<1 (ND)			<1 (ND)			<1 (ND)
Vinyl chloride	C, V					<0.02 (ND)	<0.02 (ND)		<0.02 (ND)	<0.02 (ND)									
Xylenes	nc, v	<3 (ND)	<3 (ND)	<3 (ND)	<3 (ND)	<3 (ND)	<3 (ND)	<3 (ND)	<3 (ND)	<3 (ND)	<3 (ND)	<3 (ND)	<3 (ND)	<3 (ND)	<3 (ND)	<3 (ND)	<3 (ND)	<3 (ND)	<3 (ND)
Polyaromatic Hydrocarbons (Carcinogenic)																			
Acenaphthene	nc, v		<0.04 (ND)	<0.04 (ND)		<0.04 (ND)	<0.04 (ND)		1.5	1.4		4.1	3.8		<0.04 (ND)	<0.04 (ND)		<0.04 (ND)	<0.04 (ND)
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)		<0.04 (ND)	<0.04 (ND)		<0.04 (ND)	<0.04 (ND)
Benz[a]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)		<0.04 (ND)	<0.04 (ND)		<0.04 (ND)	<0.04 (ND)
Benzo[a]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)		<0.04 (ND)	<0.04 (ND)		<0.04 (ND)	<0.04 (ND)
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)		<0.04 (ND)	<0.04 (ND)		<0.04 (ND)	<0.04 (ND)
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)		<0.04 (ND)	<0.04 (ND)		<0.04 (ND)	<0.04 (ND)
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)		<0.04 (ND)	<0.04 (ND)		<0.04 (ND)	<0.04 (ND)
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)		<0.04 (ND)	<0.04 (ND)		<0.04 (ND)	<0.04 (ND)
Fluoranthene	nc, nv		<0.04 (ND)	<0.04 (ND)		<0.04 (ND)	<0.04 (ND)		0.050	0.046		<0.04 (ND)	<0.04 (ND)		<0.04 (ND)	<0.04 (ND)		<0.04 (ND)	<0.04 (ND)
Fluorene	nc, v		<0.04 (ND)	<0.04 (ND)		<0.04 (ND)	<0.04 (ND)		0.29	0.3		1.3	1.2		<0.04 (ND)	<0.04 (ND)		<0.04 (ND)	<0.04 (ND)
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)		<0.04 (ND)	<0.04 (ND)		<0.04 (ND)	<0.04 (ND)
Naphthalene	C, V		<0.4 (ND)	<0.4 (ND)		<0.4 (ND)	<0.4 (ND)		<0.4 (ND)	<0.4 (ND)		<0.4 (ND)	<0.4 (ND)		<0.4 (ND)	<0.4 (ND)		<0.4 (ND)	<0.4 (ND)
1-Methylnaphthalene	nc, v		<0.4 (ND)	<0.4 (ND)		<0.4 (ND)	<0.4 (ND)		<0.4 (ND)	<0.4 (ND)		<0.4 (ND)	<0.4 (ND)		<0.4 (ND)	<0.4 (ND)		<0.4 (ND)	<0.4 (ND)
2-Methylnaphthalene	nc, v		<0.4 (ND)	<0.4 (ND)		<0.4 (ND)	<0.4 (ND)		<0.4 (ND)	<0.4 (ND)		<0.4 (ND)	<0.4 (ND)		<0.4 (ND)	<0.4 (ND)		<0.4 (ND)	<0.4 (ND)
Pyrene	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)		<0.04 (ND)	<0.04 (ND)		<0.04 (ND)	<0.04 (ND)
Metals	0.00																		+
Cadmium	c, nv																		
Total Lead	NA, nv																		
Total Petroleum Hydrocarbons		400 (ND)	400 (ND)	400 (ND)	400 (ND)	400 (ND)	400 (NID)	(100 (ND)	(100 (ND)	400 (NID)	(100 (NID)	400 (ND)	(100 (NID)	(100 (NID)	(100 (ND)	400 (ND)	400 (NID)	(100 (NID)	400 (10)
GRO	nc, v	<100 (ND)	<100 (ND)	<100 (ND)	<100 (ND)	<100 (ND)	<100 (ND)	<100 (ND)	<100 (ND)	<100 (ND)	<100 (ND)	<100 (ND)	<100 (ND)	<100 (ND)	<100 (ND)	<100 (ND)	<100 (ND)	<100 (ND)	<100 (ND)
DRO	nc, nv	80 x	<50 (ND)	<50 (ND)	300 x	<50 (ND)	<50 (ND)	<50 (ND)	<50 (ND)	<50 (ND)	55 x	64	<50 (ND)	<50 (ND)	<50 (ND)	<50 (ND)	<50 (ND)	<50 (ND)	<50 (ND)
RRO	nc, nv	410 x	<250 (ND)	<250 (ND)	510 x	<250 (ND)	<250 (ND)	<250 (ND)	<250 (ND)	<250 (ND)	<250 (ND)	<250 (ND)	<250 (ND)	<250 (ND)	<250 (ND)	<250 (ND)	300 x	<250 (ND)	<250 (ND)

 $\begin{array}{l} -= \mbox{ not analyzed or not applicable}, \\ nv = \mbox{ not exercise at or adove the method reporting infit (mRL) or practical initial field) shown \\ nuclified in limit (POI) shown \\ NE = \mbox{ not established}. \end{array}$

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

µg/L = micrograms per Liter c = carcinogenic nc = noncarcinogenic

v = volatile

nv = nonvolatile

GRO = gasoline-range organics.

DRO = diesel-range organics.

RRO = residual-range organics.

Bolded/Shaded concentrations exceed MTCA Method A or B Cleanup

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

J = the identification of the analyte is acceptable; the reported value is an estimate
** Cleanup level of carcinogenic PAHs based on cleanup standard for Benzo(a)pyrene

x = the sample chromatogram pattern does not resemble the fuel standard used for quantitation.

Table 3 - Summary of Analytical Data, Ground Water (Monitoring Wells)

	Location ID	Well-8	Well-8	Well-8	Well-9	Well-9	Well-9	Well-10	Well-10	Well-10	Well-11	Well-11	Well-11	Well-12	Well-12	Well-12	Well-13	Well-13	Well-13
	Sample ID	Well #8	WELL-8-220126	WELL-8-220421	Well #9	WELL-9-220126	WELL-9-220421	Well #10	WELL-10-220126	WELL-10-220421	Well #11	WELL-11-220126	WELL-11-220421	Well #12	WELL-12-220126	WELL-12-220421	Well #13	WELL-13-220126	WELL-13-22042
	Date Sampled	5/4/2021	1/26/2022	4/21/2022	5/4/2021	1/26/2022	4/21/2022	5/4/2021	1/26/2022	4/21/2022	5/4/2021	1/26/2022	4/21/2022	6/2/2021	1/26/2022	4/21/2022	6/2/2021	1/26/2022	4/21/2022
	Sampler	ES	ENW	ENW	ES	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ES	ENW	ENW	ES	ENW	ENW
		North Parking	North Parking	North Parking															
		Area - Northeast	Area - Northeast	Area - Northeast	North Parking	North Parking	North Parking	Former Dry	Former Dry	Former Dry	Former Dry	Former Dry Cleaner	Former Dry Cleaner	North Property	North Property	North Property	North Property	Proposed Play	Proposed Play
		Corner	Corner	Corner	Area - East	Area - East	Area - East	Cleaner	Cleaner	Cleaner	Cleaner	r onner bry oleaner	r offici bry oleaner	Boundary	Boundary	Boundary	Boundary	Area	Area
	Location																		
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)	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 (VOCs)																			
Benzene	C, V	<1 (ND)	<0.35 (ND)	<0.35 (ND)	<1 (ND)	<0.35 (ND)	<0.35 (ND)	<1 (ND)	<0.35 (ND)	<0.35 (ND)	<1 (ND)	<0.35 (ND)	<0.35 (ND)	<1 (ND)	<0.35 (ND)	<0.35 (ND)	<1 (ND)	<0.35 (ND)	<0.35 (ND)
Ethyl Chloride	C, V									<1 (ND)									
Dichlorobenzene;1,4-	C, V									<1 (ND)									
Dichloroethylene;1,1-	nc, v		<1 (ND)			<1 (ND)		<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)			<1 (ND)			<1 (ND)	
Dichloroethylene;1,2-,cis	nc, v							<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)								
Dichloroethylene;1,2-,trans	nc, v							<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)								
Methylene Chloride	C, V		 <1 (ND)			 <1 (ND)	 <1 (ND)	<5 (ND)	<5 (ND) <1 (ND)	<5 (ND)	<5 (ND)	 <1 (ND)	 <1 (ND)		 <1 (ND)			 <1 (ND)	
Ethylene dibromide (EDB) Dichloroethane;1,2- (EDC)	C, V		<1 (ND) <0.2 (ND)	<1 (ND) <0.2 (ND)		<1 (ND) <0.2 (ND)	<1 (ND) <0.2 (ND)	<1 (ND)	<1 (ND) <0.2 (ND)	<1 (ND) <0.2 (ND)	 <1 (ND)	<1 (ND) <0.2 (ND)	<1 (ND) <0.2 (ND)		<1 (ND) <0.2 (ND)	<1 (ND) <0.2 (ND)		<1 (ND) <0.2 (ND)	<1 (ND) <0.2 (ND)
Ethylbenzene	C, V	<1 (ND)	<0.2 (ND) <1 (ND)	<0.2 (ND) <1 (ND)	<1 (ND)	<0.2 (ND) <1 (ND)	<0.2 (ND) <1 (ND)	<1 (ND) <1 (ND)	<0.2 (ND) <1 (ND)	<0.2 (ND) <1 (ND)	<1 (ND) <1 (ND)	<0.2 (ND) <1 (ND)	<0.2 (ND) <1 (ND)	<1 (ND)	<0.2 (ND) <1 (ND)	<0.2 (ND) <1 (ND)	<1 (ND)	<0.2 (ND) <1 (ND)	<0.2 (ND) <1 (ND)
Methyl tert-butyl ether (MTBE)	C, V C, V	<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) <1 (ND)	<1 (ND) 	<1 (ND)	<1 (ND)	<1 (ND) 	<1 (ND) <1 (ND)	<1 (ND)
Naphthalene	c, v nc. v		<0.4 (ND)	<1 (ND)		<0.4 (ND)	<1 (ND)		<0.4 (ND)	<1 (ND)		26 jl	39		<0.4 (ND)	<1 (ND)		<0.4 (ND)	<1 (ND)
Cumene	nc, v		<0.4 (ND)	<1 (ND)		<0.4 (ND)	<1 (ND)		<0.4 (ND)	<1 (ND)		20 ji	<1 (ND)		<0.4 (ND)	<1 (ND)		<0.4 (ND)	<1 (ND)
Propylbenzene, n-	nc, v			<1 (ND)			<1 (ND)			<1 (ND)			<1 (ND)			<1 (ND)			<1 (ND)
Tetrachloroethylene (PCE)	C, V						<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)		<1 (ND)						
Toluene	nc. v	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	2.0	<1 (ND)	<1 (ND)	9.4	<1 (ND)	<1 (ND)
Trichloroethane:1.1.1-	nc, v							<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)								
Trichloroethylene (TCE)	C, V							<1 (ND)	<0.5 (ND)	<0.5 (ND)	<1 (ND)								
Trimethylbenzene:1.2.4-	nc. v			<1 (ND)			<1 (ND)			<1 (ND)	/		<1 (ND)			<1 (ND)			<1 (ND)
Trimethylbenzene;1,3,5-	nc, v			<1 (ND)			<1 (ND)			<1 (ND)			<1 (ND)			<1 (ND)			<1 (ND)
Vinyl chloride	C, V						/	<0.2 (ND)	<0.02 (ND)	<0.02 (ND)	<0.2 (ND)								
Xvlenes	nc. v	<3 (ND)	<3 (ND)	<3 (ND)	<3 (ND)	<3 (ND)	<3 (ND)	<3 (ND)	<3 (ND)	<3 (ND)	<3 (ND)	<3 (ND)	<3 (ND)	<3 (ND)	<3 (ND)	<3 (ND)	<3 (ND)	<3 (ND)	<3 (ND)
Polyaromatic Hydrocarbons (Carcinogenic)		× /					. ,			, , , , , , , , , , , , , , , , , , ,			. ,				· · · · ·		
Acenaphthene	nc, v		<0.04 (ND)	<0.04 (ND)		<0.04 (ND)	<0.04 (ND)		<0.04 (ND)	<0.04 (ND)		6.9	5.6		<0.04 (ND)	<0.04 (ND)		<0.04 (ND)	<0.04 (ND)
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)		<0.04 (ND)	<0.04 (ND)		<0.04 (ND)	<0.04 (ND)
Benz[a]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)		<0.04 (ND)	<0.04 (ND)		<0.04 (ND)	<0.04 (ND)
Benzo[a]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)		<0.04 (ND)	<0.04 (ND)		<0.04 (ND)	<0.04 (ND)
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)		<0.04 (ND)	<0.04 (ND)		<0.04 (ND)	<0.04 (ND)
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)		<0.04 (ND)	<0.04 (ND)		<0.04 (ND)	<0.04 (ND)
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)		<0.04 (ND)	<0.04 (ND)		<0.04 (ND)	<0.04 (ND)
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)		<0.04 (ND)	<0.04 (ND)		<0.04 (ND)	<0.04 (ND)
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)		<0.04 (ND)	<0.04 (ND)		<0.04 (ND)	<0.04 (ND)
Fluorene	nc, v		<0.04 (ND)	<0.04 (ND)		<0.04 (ND)	<0.04 (ND)		<0.04 (ND)	<0.04 (ND)		2.3	2.3		<0.04 (ND)	<0.04 (ND)		<0.04 (ND)	<0.04 (ND)
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)		<0.04 (ND)	<0.04 (ND)		<0.04 (ND)	<0.04 (ND)
Naphthalene	C, V		<0.4 (ND)	<0.4 (ND)		<0.4 (ND)	<0.4 (ND)		<0.4 (ND)	<0.4 (ND)		26 jl	14		<0.4 (ND)	<0.4 (ND)		<0.4 (ND)	<0.4 (ND)
1-Methylnaphthalene	nc, v		<0.4 (ND)	<0.4 (ND)		<0.4 (ND)	<0.4 (ND)		<0.4 (ND)	<0.4 (ND)		2.8 jl	1.8		<0.4 (ND)	<0.4 (ND)		<0.4 (ND)	<0.4 (ND)
2-Methylnaphthalene	nc, v		<0.4 (ND)	<0.4 (ND)		<0.4 (ND)	<0.4 (ND)		<0.4 (ND)	<0.4 (ND)		0.83	0.61		<0.4 (ND)	<0.4 (ND)		<0.4 (ND)	<0.4 (ND)
Pyrene	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)		<0.04 (ND)	<0.04 (ND)		<0.04 (ND)	<0.04 (ND)
Metals																			
Cadmium	c, nv															<1 (ND)			
Total Lead	NA, nv															<1 (ND)			
Total Petroleum Hydrocarbons																			
GRO	nc, v	<100 (ND)	<100 (ND)	<100 (ND)	<100 (ND)	<100 (ND)	<100 (ND)	<100 (ND)	<100 (ND)	<100 (ND)	<100 (ND)	<100 (ND)	<100 (ND)	<100 (ND)	<100 (ND)	<100 (ND)	<100 (ND)	<100 (ND)	<100 (ND)
DRO	nc, nv	53 x	<50 (ND)	<50 (ND)	110 x	<50 (ND)	<50 (ND)	55 x	<50 (ND)	<50 (ND)	150 x	170	130 x	<50 (ND)	<50 (ND)	<50 (ND)	<50 (ND)	<50 (ND)	<50 (ND)
RRO	nc, nv	<250 (ND)	<250 (ND)	<250 (ND)	<250 (ND)	<250 (ND)	<250 (ND)	<250 (ND)	<250 (ND)	<250 (ND)	<250 (ND)	<250 (ND)	<250 (ND)	<250 (ND)	<250 (ND)	<250 (ND)	<250 (ND)	<250 (ND)	<250 (ND)

- = not analyzed or not applicable. $_{\rm NV}$ = not detected at or above the method reporting inflit (MRL) or practical numbration limit (POI) shown NE = not established.

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

µg/L = micrograms per Liter

c = carcinogenic nc = noncarcinogenic

v = volatile

nv = nonvolatile

GRO = gasoline-range organics.

DRO = diesel-range organics.

RRO = residual-range organics.

Bolded/Shaded concentrations exceed MTCA Method A or B Cleanup (Y) indicates analyte not detected, but detection limit is above screening concentration.

J = the identification of the analyte is acceptable; the reported value is an

** Cleanup level of carcinogenic PAHs based on cleanup standard for Benzo(a)pyrene

x = the sample chromatogram pattern does not resemble the fuel standard used for quantitation.

Table 3 - Summary of Analytical Data, Ground Water (Monitoring Wells)

	Location ID		QA/	QC					
		WELL-FD-220127	WELL-FD-220127	Trip Blank	Trip Blank		MTCA Method A		
	Date Sampled		4/21/2022	1/26/2022	4/21/2022	Maximum		MTCA Method B	Constituent o
	Sampler		ENW	ENW	ENW	Ground Water	for Ground	Cleanup Levels	Potential
	Location		Field duplicate of Well #4	Trip Blank	Trip Blank	Concentration (QA/QC not included)	Water (Unrestricted Land Use)	for Ground Water (lowest)	Concern (COPC)? ³
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)	Y/N
Volatile Organic Constituents (VOCs)		13 11 1	13 41 7	13 11 1	13 (11-7	13 (11)	13 (11)	13 11 1	
Benzene	C, V	<0.35 (ND)	<0.35 (ND)	<0.35 (ND)	<0.35 (ND)	<1 (ND)	5	0.8	(Y)
Ethyl Chloride	C, V	(<1 (ND)			<1 (ND)	NE	NE	
Dichlorobenzene;1,4-	C, V		<1 (ND)			<1 (ND)	NE	8.1	N
Dichloroethylene;1,1-	nc, v	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	NE	400	N
Dichloroethylene;1,2-,cis	nc, v	<1 (ND)	<1 (ND)			<1 (ND)	NE	16	N
Dichloroethylene;1,2-,trans	nc, v	<1 (ND)	<1 (ND)			<1 (ND)	NE	160	N
Methylene Chloride	C, V	<5 (ND)	<5 (ND)			<5 (ND)	5	5.8	N
Ethylene dibromide (EDB)	C, V	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	0.01	0.022	(Y)
Dichloroethane;1,2- (EDC)	C, V	<0.2 (ND)	<0.2 (ND)	<0.2 (ND)	<0.2 (ND)	<1 (ND)	5	0.48	(Y)
Ethylbenzene	C, V	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	700	800	N
Methyl tert-butyl ether (MTBE)	C, V	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	20	24	N
Naphthalene	nc, v	<0.4 (ND)	<1 (ND)	<0.4 (ND)	<0.4 (ND)	39 il	160	160	N
Cumene	nc, v		<1 (ND)			<1 (ND)	NE	800	N
Propylbenzene, n-	nc, v		<1 (ND)			<1 (ND)	NE	800	N
Tetrachloroethylene (PCE)	C, V	<1 (ND)	<1 (ND)			<1 (ND)	5	21	N
Toluene	nc, v	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	9.4	1000	640	N
Trichloroethane;1,1,1-	nc, v	<1 (ND)	<1 (ND)			<1 (ND)	200	16000	N
Trichloroethylene (TCE)	C, V	<0.5 (ND)	<0.5 (ND)			<1 (ND)	5	0.54	(Y)
Trimethylbenzene;1,2,4-	nc, v		<1 (ND)			<1 (ND)	NE	80	N (.)
Trimethylbenzene;1,3,5-	nc, v		<1 (ND)			<1 (ND)	NE	80	N
Vinyl chloride	C, V	<0.02 (ND)	<0.02 (ND)			<0.2 (ND)	0.2	0.029	(Y)
Xylenes	nc, v	<3 (ND)	<3 (ND)	<3 (ND)	<3 (ND)	<3 (ND)	1000	1600	N
Polyaromatic Hydrocarbons (Carcinogenic)	110, V	(IID)	<0 (ND)	(IID)	(UD)	(IID)	1000	1000	
Acenaphthene	nc, v	<0.04 (ND)	1.2			6.9	NE	480	N
Anthracene	nc, v	<0.04 (ND)	<0.04 (ND)			<0.04 (ND)	NE	2400	N
Benz[a]anthracene	c, nv	<0.04 (ND)	<0.04 (ND)			<0.04 (ND)	**	**	(Y)
Benzo[a]pyrene	c, nv	<0.04 (ND)	<0.04 (ND)			<0.04 (ND)	0.1 (**)	0.023 (**)	(Y)
Benzo[b]fluoranthene	c, nv	<0.04 (ND)	<0.04 (ND)			<0.04 (ND)	**	**	(Y)
Benzo[k]fluoranthene	c, nv	<0.04 (ND)	<0.04 (ND)			<0.04 (ND)	**	**	(Y)
Chrysene	c, nv	<0.04 (ND)	<0.04 (ND)			<0.04 (ND)	**	**	(Y)
Dibenz[a,h]anthracene	c, nv	<0.04 (ND)	<0.04 (ND)			<0.04 (ND)	**	**	(Y)
Fluoranthene	nc, nv	<0.04 (ND)	0.052			<0.05 (ND)	NE	640	N
Fluorene	nc, v	<0.04 (ND)	0.28			2.3	NE	320	N
Indeno[1,2,3-cd]pyrene	c, nv	<0.04 (ND)	<0.04 (ND)			<0.04 (ND)	**	**	(Y)
Naphthalene	C, V	<0.4 (ND)	<0.4 (ND)			26 jl	160	160	N N
1-Methylnaphthalene	nc, v	<0.4 (ND)	<0.4 (ND)			2.8 jl	NE	1.5	Y
2-Methylnaphthalene	nc, v	<0.4 (ND)	<0.4 (ND)			0.83	NE	32	N
Pyrene	nc, nv	<0.04 (ND)	<0.04 (ND)			<0.04 (ND)	NE	240	N
Metals		(0.01 (1.2))	(0.0 ((2.0	
Cadmium	c, nv					<1 (ND)	5	8	N
Total Lead	NA, nv					<1 (ND)	15	15	N
Total Petroleum Hydrocarbons	11/7, 11/						10	13	
GRO	nc, v	<100 (ND)	<100 (ND)			<100 (ND)	800	NE	N
DRO	nc, nv	<50 (ND)	<50 (ND)			300 x	500	NE	N
RRO	nc, nv	<250 (ND)	<250 (ND)			510 x	500	NE	Y
Notes:	110, 110	~200 (ND)	~200 (IND)			310 X	000		

- enot analyzed or not applicable.
 ND = not analyzed or not applicable.
 ND = not celected at or addre the method reporting infit (NRL) or practical nutaritation limit (POL) shown
 NE = not established.

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

µg/L = micrograms per Liter

c = carcinogenic nc = noncarcinogenic

v = volatile

nv = nonvolatile

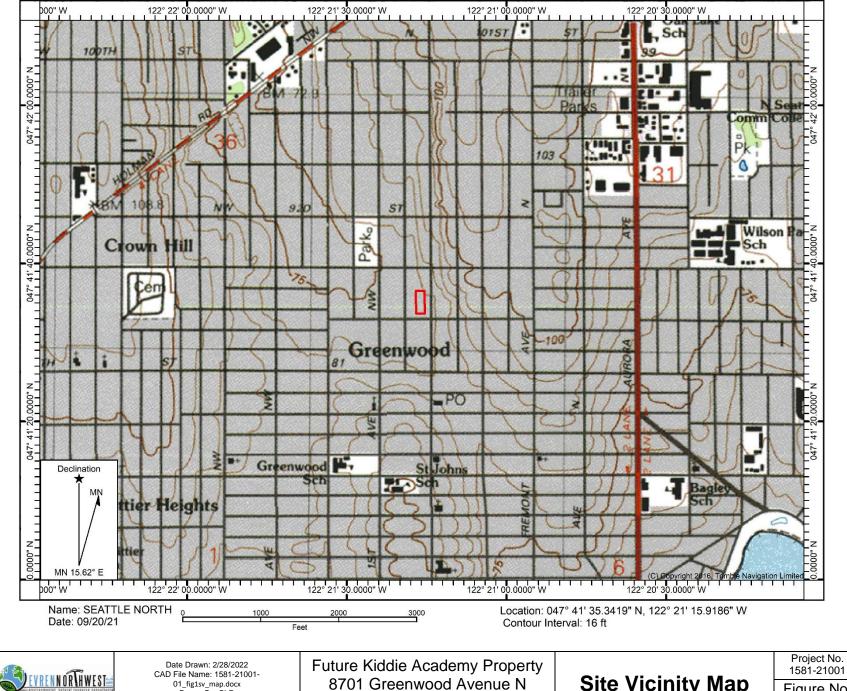
GRO = gasoline-range organics. DRO = diesel-range organics.

RRO = residual-range organics. Bolded/Shaded concentrations exceed MTCA Method A or B Cleanup

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

J = the identification of the analyte is acceptable; the reported value is an estimate ** Cleanup level of carcinogenic PAHs based on cleanup standard for Benzo(a)pyrene

x = the sample chromatogram pattern does not resemble the fuel standard used for quantitation.

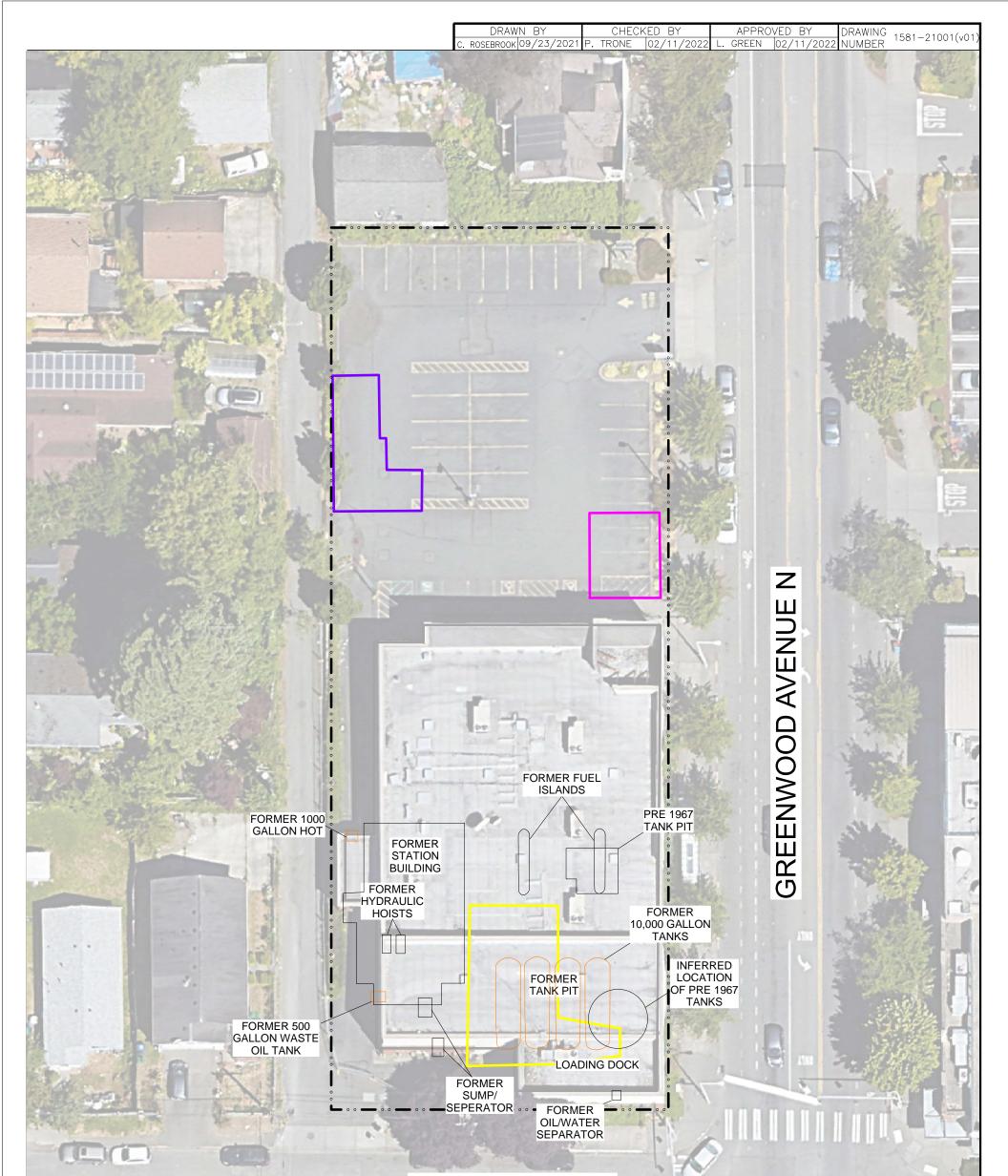


01_fig1sv_map.docx Drawn By: CLR Approved By: LDG

8701 Greenwood Avenue N Seattle, Washington

Site Vicinity Map Figure No.

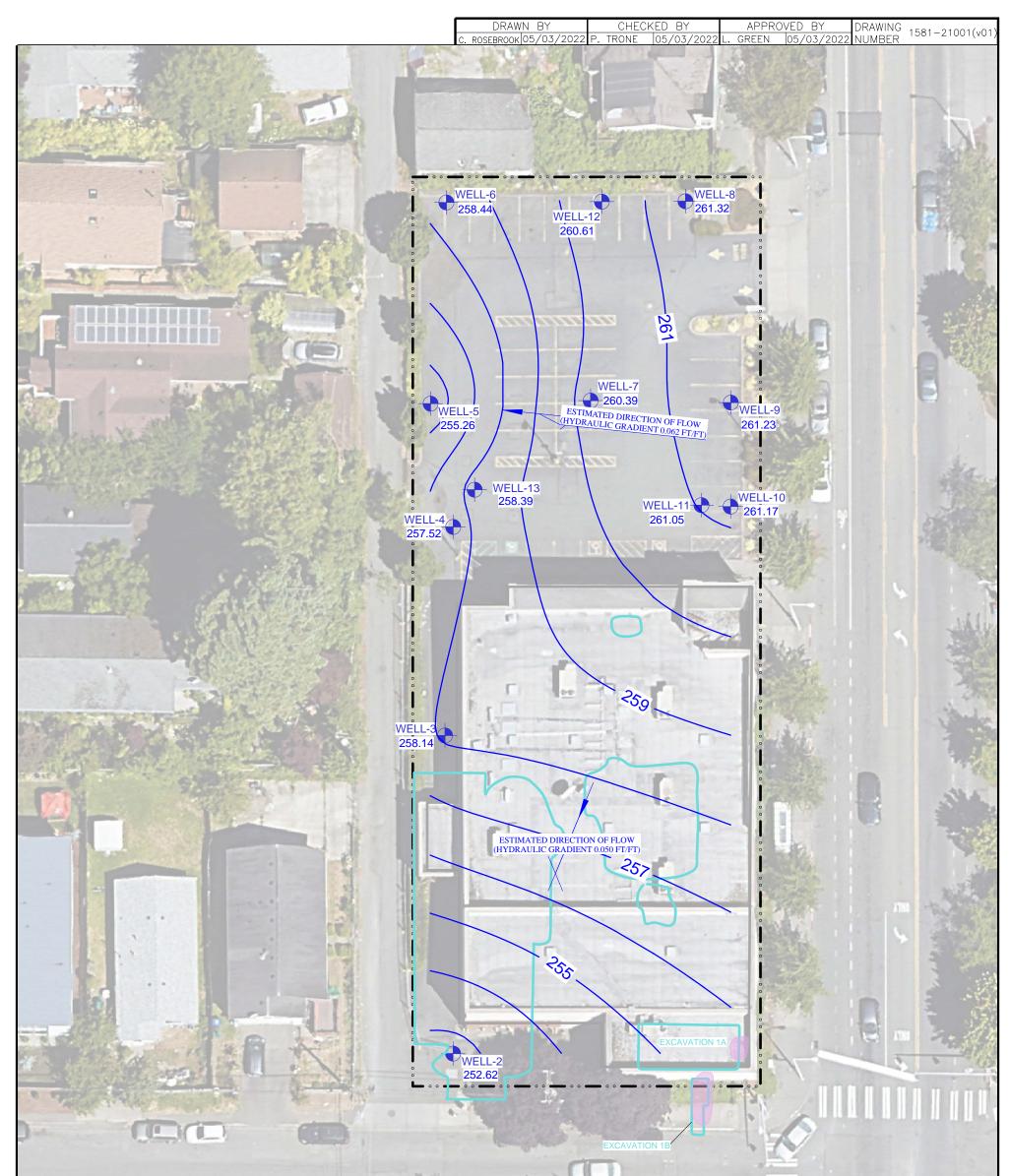
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N 87TH STREET

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LEGEND:	NOTES:	
SUBJECT BUILDINGS	1. BASE MAP DEVELOPED FROM AN AERIAL PHOTOGRAPH MAP DATED 2019 AND ENW FIELD NOTES.	
SUBJECT PROPERTY BOUNDARIES	2. ALL BUILDING, STREET, AND FEATURE LOCATIONS ARE APPROXIMATE.	PO BOX 14488, PORTLAND, OREGON 97293 P: (503)452-5561, E: ENW@EVREN-NW.COM
FORMER GAS STATION PER 1950 HISTORICAL SANBORN MAP FORMER VANITY CLEANERS PER CITY DIRECTORY 1951–1955, LOCATION BASED ON 1950–1966 SANBORN MAP	3. SYMBOLS REPRESENT LOCATION AND DO NOT ALWAYS REPRESENT EXACT SHAPE, SIZE, OR ORIENTATION.	FIGURE 2 SITE PLAN WITH HISTORICAL
FORMER LAUNDRY PER 1930 HISTORICAL SANBORN MAP	APPROXIMATE SCALE	FEATURES OF INTEREST
* FORMER FEATURES PER 1994 EMCON NORTHWEST INC. AND TEXACO 1991 AND ENVIRO. RESOLUTION INC. 1994 AND 1996	0 30 60 FEET	FUTRUE KIDDIE ACADEMY PROPERTY 8701 GREENWOOD AVENUE N SEATTLE, WASHINGTON





LEGEND:

SUBJECT BUILDING SUBJECT PROPERTY BOUNDARIES

PRIOR PCS EXCAVATION MARGINS

MONITORING WELL LOCATION PER ENVIRONMENTAL SPECIALTIES MAY 2021

INFERRED AREA OF RESIDUAL PETROLEUM IMPACTED SOIL EXCEEDING MTCA METHOD A CUL FOR GRO (>30 MG/KG) AND DRO (>2000 MG/KG)



GROUND WATER CONTOURS APRIL 2022

NOTES:

0

- 1. BASE MAP DEVELOPED FROM AN AERIAL PHOTOGRAPH MAP DATED 2019 AND ENW FIELD NOTES.
- 2. ALL BUILDING, STREET, AND FEATURE LOCATIONS ARE APPROXIMATE.
- 3. SYMBOLS REPRESENT LOCATION AND DO NOT ALWAYS REPRESENT EXACT SHAPE, SIZE, OR ORIENTATION.

APPROXIMATE SCALE

30

(N)

60 FEET



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

FIGURE 3 GROUND WATER POTENTIOMETRIC SURFACE MAP - APRIL 21, 2022

PROPOSED KIDDIE ACADEMY PROPERTY 8701 GREENWOOD AVENUE N SEATTLE, WASHINGTON

Appendix A

Site Photographs



Gauging Well #10 with a depth to water meter, view looking west.



Low-flow purge and sampling set up on Well #12 next to northern site boundary using a peristaltic pump (blue box).



Low-flow purge and sampling set up on Well #6.



Well #4 near the NW corner of the existing building.



Future Kiddie Academy Property 8701 Greenwood Avenue N Seattle, Washington

Site	
Photographs	

	Project No.
	1581-21001-02
~	Appendix
>	Α



Low-flow purge and sampling of Well #3 – looking south.



Sentry well MW-8 being repaired using a cut-off tool to level off the broken portion of the 3-inch casing.



Well MW-8 being re-developed.



Well purge water was placed in DOT-approved drums pending disposal.



Future Kiddie Academy Property 8701 Greenwood Avenue N Seattle, Washington

	Project No.			
Site	1581-21001-02			
Dhotographs	Appendix			
Photographs	А			

Appendix B

Field Sampling Data Sheets

PROJECT NAME Event: Grour Field Personnel: Weather Conditions DTW (prior to purgin	Dan S. ar	nd Bailey F. W BC ^C	WELL	attle PURGING IN	FORMATION	N	Aton	21-22 D: Well-2 D: 2-32	Total
Time 14:36 14:40 14:40 14:52 14:52 14:52 15:04	DTW During Purging (feet) 2.68 5.56 5.56 5.56 5.30 6.61 6.95 7.19	Pumping Rate (Limin) L LOOML LOOML 150/: +L 150ML 150ML 150ML	Temperature (degree C) 11,12 11,31 11,15 11,15	Specific Conductivity (mS/cm), ±3% , 3 5 (, 7 7 7 5 , 3 7 5 , 3 7 5 , 3 7 7 , 3 5 ,	Dissolved Oxygen (mg/L),±10% 0,10 0,11 0,11 0,11 ,41 ,41 ,35 ,36	7.51 7.51 1.52 7.52 7.52	-28 -66 -79 -88 -95	Turbidity (NTU), , ±10% 27, 7 31, 6 29, 7 29, 6 29, 2	Quantity Purged (gallons/liters)

Event: Grour Field Personnel: Weather Conditions	Dan S. an	nd Bailey F.		F			Monitoring Well I Start Tim		L-3 b
DTW (prior to purgi	ng):		1.39 5 WELL	PURGING IN	FORMATION				
Time 3:57 3:57 14:03 14:03 14:03 14:03 14:19	DTW During Purging (feet) 2.30 2.30 2.30 2.46 3.06 3.06	Pumping Rate (U/min) (25 () () () () () () ()	Temperature (degree C) (3.11 (3.25) (3.7) (3.7) (3.7) (3.7) (3.7) (3.3)	Specific Conductivity (mS/cm), ±3% 279.8 280-16 280-16 280-16 280-16 280-16 280-16	Dissolved Oxygen (mg/L),±10% 0-55 0-44 0-39 0-33	Water pH (S.U.),, ±0.1% 290 790 790 790 790 797 700	ORP (mV), , ±10 mV 60.2 \$9.2 35.3 18.9 11.9 11.9 8.3	Turbidity (NTU), , ±10%	Total Quantity Purged (gallons/liter: 0.4 0.9 1.4 (.80 2.25 2.6

Dan S. and Bailey F. Weather Conditions: Month Gundred DTW (prior to purging): About TOC Surfaum							Monitoring Well ID: WELL - N Start Time: (2:54			
ing):	anoul	WELL		the second s						
DTW During Purging (feet)	Pumping Rate (L/min)	Temperature (degree C)	Specific Conductivity (mS/cm), ±3%	Dissolved Oxygen (mg/L) , ±10%	Water pH (S.U.), , ±0.1%	ORP (mV), , ±10 mV	Turbidity (NTU), , ±10%	Total Quantity Purged (gallons/liters		
our	490	11.95	203.18	0.14	25B	2.3	(5.(6	4.50		
<u> ((</u>	4	1(A3	283.30	0.11	7.63	1.7	21.01	6.90		
			begn	Sangli	3					
	s: ing): DTW During Purging (feet) Out	s: Monut ing): About DTW During Pumping Purging (feet) (L/min) OW LGO 30 0 11 11	s: Mond Gund ing): About To C WELL DTW During Pumping Purging (feet) (L/min) (degree C) OW (TO URBERTS To U (1.95) 11 11 11 1.90	s: ing): bow DTW During Purging (feet) (L/min) MOTH Pumping Rate (L/min) Temperature (degree C) Temperature (degree C) Temperature (mS/cm), ±3% Temperature (degree C) Temperature (mS/cm), ±3% Temperature (mS/cm), ±3% Temperature Temperature (mS/cm), ±3% Temperature T	s: most for finite sectors for the sector for the	s: Month Line for the formula for the formula formula for the formula formula for the formula formula for the formula	s: Mon to C - Surface ing): Mon to C - Surface WELL PURGING INFORMATION WELL PURGING INFORMATION Well PURGING INFORMATION Water Oxygen (feet) (L/min) (degree C) Mon (190 Conductivity Mon (mol L), ±10% (S.U.), ±0.1% (mV), ±10 mV Mon (S.U.), ±0.1% (mV), ±10 mV Mon (Mon (Mon (Mon (Mon (Mon (Mon (Mon (s: Mon to C - Surfaun ing): Mon to C - Surfaun WELL PURGING INFORMATION WELL PURGING INFORMATION DTW During Pumping Purging Rate (L/min) (degree C) Specific Conductivity (mS/cm), ±3% (mg/L), ±10% (S.U.), ±0.1% (mV), , ±10 mV (NTU), , ±10% OW (50 URBSTO 203.18 O.(4 2518 2.3 (5.(6 11 11 11 19.9 28333 0.11 7.60 985 17.11		

EVREN Northwest GROUND WATER FIELD SAMPLING DATA FORM (FIELD)

PROJECT NAME: 8701 Greenwood Avenue N. Seattle

PROJECT NUMBER: **1581-21001-01** Date: 04-21-77

Event: Ground Monitoring

Field Personnel:Dan S. and Bailey F.Monitoring Well ID:Weather Conditions: $(12, 43)$ DTW (prior to purging): TOP								Э	
		1	WELL	PURGING IN	FORMATION				
Time 12:47 12:51 12:55 12:55	DTW During Purging (feet) TVP, NTaX-2 TOP, NTaX-2 TOP, NTaX-2 TOP, NTaX-2	Pumping Rate (L/min) 200 M 200 M 200 M	Temperature (degree C) 13 . 59 4 14 . 07 14 . 13 14 . 13	Specific Conductivity (mS/cm), ±3% , 2–9 \ , 2–9 \ , 2–9 \ , 2–9 \ , 2–9 \	Dissolved Oxygen (mg/L), ±10% • 7 & • 3 \ • 3 \ • 3 \	Water pH	ORP (mV), , ±10 mV - [C9 - [3] - [3] - [4] - [4]	Turbidity (NTU), , ±10% 21,6 26,0 25,1 25,1	Total Quantity Purged (gallons/liters)
	<u> </u>				I	<u> </u>	/	Total Purg	ed:

	orthwest IE: 8701 Gr und Monitoring	reenwood	NG DATA FORM (FIELD) PROJECT NUMBER: 1581-21001-01 Date:						
Field Personnel: Weather Conditions DTW (prior to purgi	s: (nd Bailey F.							
Time [0:49 [0:51 [0:55 [0:55] [1:07 [1:07 [1:1]	DTW During Purging (feet)	Pumping Rate (L/min)	Temperature (degree C) (1.89 (2.37) (Specific Conductivity (mS/cm), ±3% 20205 203.59 203.69 203.69 203.69 203.69	eng	Water pH (S.U.), , ±0.1% How c 7-64 7-50 7-50 7-61 7-61	ORP (mV), , ±10 mV (194-3 198.7 202-3 Fis.9 Fis.9 Fis.9 Fis.9	Turbidity (NTU),, ±10% 1655 6.04 1.01 5.33 15.00 3.43	50
	<u>, </u>				5			Total Puror	ed: 3.20

EVREN N PROJECT NAM Event: Grou		reenwood A	NG DATA FORM (FIELD) PROJECT NUMBER: 1581-21001-01 Date: Du - L - L						
Field Personnel: Weather Conditior DTW (prior to purg	ns: <u>Ch</u>	nd Bailey F. Ngy (16 v fa (l	~				Monitoring Well I Start Tim		1
			WELL	PURGING IN	FORMATION				· · ·
Time 1200 12:04 12:05 12:12 12:14 12:20	DTW During Purging (feet) 76 Jurtow Top whole Top whole Top intole Top intole	Pumping Rate (L/min) 200mL 200mL 200mL 200mL	Temperature (degree C) 14.01 14.05 14.05 14.09 14.00 14.35	Specific Conductivity (mS/cm), ±3% 0,299 0,299 0,299 0,299 0,300 0,300 0.300	Dissolved Oxygen (mg/L), ±10% , £3 , 53 , 49 , 49 , 47 , 47 , 40	Water pH (S.U.), , ±0.1% 7.76 7.71 7.76 7.76 7.78	ORP (mV),, ±10 mV -98 ~1/3 -127 -134 -144 -149	Turbidity (NTU), , ±10% 23,7 23,4 22,2 21,4 21,4 23,8	Total Quantity Purged (gallons/liters) , 8 , 6 2,4 3, 2 , 6 , 7 , 8
				<u>I</u>	1	1	I	Total Purge	ed;

Field Personnel: Weather Conditio DTW (prior to pu	ons:	nd Bailey F. arfly 2.10	Cloudy Steel	16°F			Monitoring Well I Start Tim	F 4	
and the second			WELL	PURGING IN	FORMATION				The los
Time	DTW During Purging (feet)	Pumping Rate (L/min)	Temperature (degree C)	Specific Conductivity (mS/cm), ±3%	Dissolved Oxygen (mg/L) , ±10%	Water pH (S.U.), , ±0.1%	ORP (mV), , ±10 mV	Turbidity (NTU), , ±10%	Total Quanti Purge (gallons/li
9:21	256	200	1780	D cute	1	usitu	227.2	000	0.1
9:26	2.50	200	12.31	284.46	0.39	B.122 8.16	230.3	6.00	1-21
9:30	2.50	100	11.99	284.02	0.38	8.11	230.5	0.00	1.0
9:34	2.46	u	1.92	284.47	0.45	8.09	231.0	0:00	2.0
0(:30	2.0	4	12.15	284.64	0.37	8.00	230.10	0.00	2.
9:42	- 60	<u>A</u>	ce	led S	and	0.05	471.0.	1.00	1.5
			1	1				1	

EVREN No PROJECT NAM Event: Grou	E: 8701 G		DUND WAT Avenue N. Se		SAMPLIN	P D	ROJECT NUMBE	R: 1581-21 4- ()(1-) \	-22
Field Personnel: Weather Conditions DTW (prior to purgi	s: <u>Clov</u>	nd Bailey F. dy 46					Monitoring Well II Start Tim	D: (WETT) e: 10:58)
			WELL	PURGING IN	FORMATION	l			· .
Time 11:02 11:05 11:10 11:10 11:18 11:20 11:20	DTW During Purging (feet) 1.95 2.01 2.11 2.11 2.14 2.15 3.15 3.5	Pumping Rate (L/min) 150 150 150 150 150 150	Temperature (degree C) (1,45 (1,45 (12,17 (12,35) (12,63 (12,85 (12,44) (3,12	Specific Conductivity (mS/cm), ±3% 0.305 0.304 0.304 0.303 0.501 0.243	Dissolved Oxygen (mg/L), ±10% O.91 O.91 O.11 O.67 O.67 O.67 O.67 O.59	Water pH (S.U.), , ±0.1% 7.69 7.69 7.10 7.10 7.10 7.11 7.11	ORP (mV), $, \pm 10 \text{ mV}$ -25 -65 -105 -105 -105 -10 -120 -120 -120	Turbidity (NTU), , ±10% 29 · 1 28 .3 21 .1 20.5 20.4 19.7 19.0	Total Quantity Purged (gallons/liters) $\cdot 6$ (\cdot, L) 1.4 2.4 3.0 3.6 4.2 4.3
					<u> </u>			Total Purge	<u> </u> ed:

EVREN No PROJECT NAME Event: Groun	E: 8701 G		UND WAT		SAMPLIN	Р	FORM (FIE ROJECT NUMBE late:		001-01
Field Personnel: Weather Conditions DTW (prior to purgin	:	nd Bailey F. Mostry 0.35	Sumul Stoc WELL	52°F			Monitoring Well I Start Tim		1-10 35
Time :36 :40 :44 :52 :52 :56 :50	DTW During Purging (feet) 0.40 0.40 0.70 0.75 0.75 0.75 0.75	Pumping Rate (L/min) (25 11 11 11 11 11 11	Temperature (degree C) (4.26 12.92 13.17 (3.25 13.46 3.75	Specific Conductivity (mS/cm), ±3% 270.00 276.80 276.80 278.72 279.91 278.72 278.73 278.73	Dissolved Oxygen (mg/L), ±10% 0.69 0.43 0.24 0.24 0.24 0.24 0.24 0.19	Water pH (S.U.), , ±0.1% 7.97 7.97 7.95 7.60 7.60 7.60 7.60 7.60	ORP (mV),, ±10 mV 145.6 145.6 14.9 94.9 92.0 74.2 62.4 57.1	Turbidity (NTU), ±10% 0.01 0.00 0.00 0.00 0.00	Total Quantity Purged (gallons/liters) 0.30 0.00 1.30 1.60 7.31 7.60 3.3
			(7	situ	wa	priam	eters	Total Purge	ed: 3.3 0

Field Personnel: Weather Condition:		nd Bailey F.	- Brier	4 3201	-		Monitoring Well I Start Tim		~
DTW (prior to purgi	ing):	at to	ip of ca	Sny -	(avtesian	/			
			WELL	PURGING IN	FORMATION		1	_	
Time	DTW During Purging (feet)	Pumping Rate (L/min)	Temperature (degree C)	Specific Conductivity (mS/cm), ±3%	Dissolved Oxygen (mg/L), ±10%	Water pH (S.U.), , ±0.1%	ORP (mV), , ±10 mV	Turbidity (NTU), , ±10%	Total Quantity Purged (gallons/liters
12:15	-	-	ente	ne -	ner we	l I	nsita		
12:16	~	-		dech-y	10-1	issue	with a	antroler	Insil
12:18	0.72	100	13.00	204.38	0.23	7.46	48.5	0.00	0.60
12:22	1.01	00	13.23	285.36	0.20	456	28-6	0.07	1.0
12:20	1.12	11	13,03	285.12	0.44	757	17.9	0.00	1.4
12:30	1.22	ti.	3.27	205.45	0.20	3.02	4.80	6.00	1.8
12:34	1.3		(3:34	1285.4	4 0.34	7-66	-7.5	6.00	2.2
			<u> </u>	lect 5	omple				-

EVREN Northwest GROUND WATER FIELD SAMPLING DATA FORM (FIELD)

PROJECT NAM Event: Grou	ME: 8701 Gi und Monitoring	reenwood		ROJECT NUMBE	R: 1581-21)01-01			
Field Personnel: Weather Condition DTW (prior to purg	ns: Ň	nd Bailey F.	Sunny	470	F		Monitoring Well I Start Tim	-	
			WELL	PURGING IN	FORMATION				
Time	DTW During Purging (feet)	Pumping Rate (L/min)	Temperature (degree C)	Specific Conductivity (mS/cm), ±3%	Dissolved Oxygen (mg/L) , ±10%	Water pH (S.U.), , ±0.1%	ORP (mV), , ±10 mV	Turbidity (NTU), , ±10%	Total Quantity Purged (gallons/liters
10:01	0.85	125	12.24	206.67	0.69	8.03	198.2	0.00	0.35
10:09	0.87	1	12.69	286.11	0.51	1001 B.04	154.6	0.00	1.40
Lostt	0.96	ıl Li	13.20	286.07	+0.47	8.03 8.03	114.5	00.0	2.9
10-14	0.10		13.05	ellect	Somp		106.3		
	. ,		- (]	n site	wa)		Total Purg	ed: 3.0

EVREN Northwest GROUND WATER FIELD SAMPLING DATA FORM (FIELD)

PROJECT NAME:	8701	Greenwood	Avenue	N. Seattle
---------------	------	-----------	--------	------------

PROJECT NUMBER: 1581-21001-01

Event: Ground Monitoring

Date:	GY	-2

131	17	-7 /
	-6	1- Color

Field Personnel: Weather Condition DTW (prior to purg	ns: MO	nd Bailey, F. 5HV (JUL	dy 5c°			Monitoring Well I Start Tim		-13	
DIV (prior to pure		ININ F	WELL	PURGING IN	FORMATION	J	an and a state of the		na van de fan de fan de ferste fan de ferste fan de ferste ferste ferste ferste ferste ferste ferste ferste fe
Time 13:35 13:39 13:44 13:48 13:52	DTW During Purging (feet) TCP, v 2012 TOP, v 2012 TOP, v 2012 TOP, v 2012	200ml	Temperature (degree C) 10,75 15,13 15,62 15,52 15,57	Specific Conductivity (mS/cm), ±3% 1284 1283 • 284 • 284	Dissolved Oxygen	Water pH (S.U.), , ±0.1% 7.85 7.85 7.85 7.85 7.85	ORP (mV),, ±10 mV 	Turbidity (NTU), , ±10% 2, C, 3 18, 5 3, 2 3, 6 6, 7	Total Quantity Purged (gallons/liters)
						L L		Total Purge	:d:



4404 (10 C	19	N	Nell De	evelopme	ent Mea	suremen	ts		
Site:							lo.:		
Monitoring	a Well:					Date:	12.13 		
`	and the second			Well In	formation		on and a star start of the setting of the setting of the	1	
Depth to Wa	iter:	46		ft					
	tom of Well:	6	B B	🔏 🔪 ft.			3. 11.		
	ater Column: 🔔	6-	2	ft.		4"= . 65			
Vol. of Wate	the state of the second s	.05	gal.						
Added water during installation?						How much	?		
Weather: 🧹	ceardy						10		
Water Quality	/ Parameters D	iring Deve	lopment		- Carlon and				
Time	Volume of Water Removed	Temper- ature (°C)	pН	Conduc- tivity (mS/cm)	ORP (± mv)	Dissolved Oxygen (mg/L)	Appearance of Water.		
7:52		C	tat	Pu	mp		\wedge		
9:54	× .		disc	haves	m SI	owly	bery dark manon	water	
		1.1	rate	Q	00.1	5 ea	Non Anemate	2 0	
7:57		Z	245	pin	p to	12cs	pect tost value		
01.01	1		ta	- Du	ing	aga	~		
and i						0			
10:06	9.50		uen	tub	d	dak	Snow		
10:12	13.75	164	8.44	98.21	227.1	2271 N.21 528 NTH - ven			
10:10		P	unp	off	N	rell,	ITW = 17.5'	-	
0:24	15		vafe	hof	nead	hly v	echarcing .		
	, .					,)	.87		
1:02	15.82	1	cha	+ Dunul) aga	nn	a a menuto	n	
1:00	(1)	13.59	793	56 38	2160	8.58	781 Non-	Dals	
11-1				-	0		1	90 I	
1:12		* 1	an	day	atre	- 20	gal tol		
				(*	0		
		· · · ·		N6					
		Meter	Calibrat	tion			Meter Number:		
Para	meter		& Time Callb				Calibration Results		
рН							4		
Conductivity				•					
ORP									
	· //		and a local		ablanca darda	Hone from star			
	ndition, nearby act umping 5 to 10						eic.)		

X

Appendix C

Laboratory Analytical Report

Summary: DATA VALID?

Analytical Laboratory Data Validation Check Sheet

Project Name: Kiddie Academy	Project Number:	1581-21001-02	
Date of Review:05/05/2022	Lab. Name: F&BI	Lab Batch ID #: 2043	71
Chain of Custody			
 Are all requested analyses reported? Were the requested methods used? Trip blank submitted? 		⊠yes ⊠yes ⊡yes	□no □no ⊠no
4.) Field blank submitted? Timing		□yes	⊠no
5.) Samples extracted within holding timesIf not, are all discrepancies footnot6.) Analysis performed within holding times	ed? s?	⊠yes ⊡yes ⊠yes	□no □no ⊠NA □no
If not, are all discrepancies footnot Quality Assurance/Quality Control	ed?	□yes	□no ⊠NA
 7.) Are the required reporting limits reporte 8.) Are all reported values above either MI 9.) Are all values between the MDL & PQL 	RL or MDL?	QLs) ⊠yes ⊠yes □yes	□no □no □no ⊠NA
10a.) Are reporting limits raised for other r	••	•	⊠no ⊠n⁄r
10b.) If so, are they footnoted?11.) Lab method blank completed?12.) Lab, Field, or Trip Blank(s) report determined	ections?	□yes ⊠yes □yes	□no ⊠NA □no ⊠no
If yes, indicate blank type, chemical(s) and	concentration(s):		
13.) For inorganics and metals, is there or If not, are all discrepancies footnot		ch analyte? ⊠yes □yes	□no □NA □no
14.) For VOCs, is there one method blank	for each day of analysi	s? ⊠yes	□no □NA
If not, are all discrepancies footnot 15.) For SVOC's, is there one method blan If not, are all discrepancies footnot	nk for each extraction b	atch? □yes □yes	□no □no □NA □no
Accuracy 16.) Is there a surrogate spike recovery fo Do all surrogate spike recoveries r	neet accepted criteria?	⊠yes	□no □NA □no
If not, are all discrepancies footnot 17.) Is there a spike recovery for all Labor Do all LCS/LCSD spike recoveries	atory Control Samples? meet accepted criteria		□no ⊠NA □no □NA □no
If not, are all discrepancies footnot 18.) Are all LCS/LCSD RPDs within accep If not, are all discrepancies footnot	otable limits?	□yes ⊠yes □yes	□no ⊠NA □no □NA □no ⊠NA
<u>Precision</u>19.) Are all matrix spike/matrix spike dupli acceptable limits?		⊠yes	□no □NA
If not, are all discrepancies footnoted? 20.) Are all matrix spike/matrix spike dupli acceptable limits?		□yes ⊠yes	□no ⊠NA
If not, are all discrepancies footnoted 21.) Do all RPD calculations for Field Dup		□yes	□no ⊠NA □no □NA

Comments:

Initial Review By: CR

Final Review By:_____

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Vineta Mills, M.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

May 5, 2022

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

Dear Mr Green:

Included are the results from the testing of material submitted on April 22, 2022 from the 1581-21001-02, F&BI 204371 project. There are 43 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 ENW0505R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on April 22, 2022 by Friedman & Bruya, Inc. from the Evren Northwest 1581-21001-02, F&BI 204371 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	Evren Northwest
204371 -01	WELL-2-220421
204371 -02	WELL-3-220421
204371 -03	WELL-4-220421
204371 -04	WELL-5-220421
204371 -05	WELL-6-220421
204371 -06	WELL-7-220421
204371 -07	WELL-8-220421
204371 -08	WELL-9-220421
204371 -09	WELL-10-220421
204371 -10	WELL-11-220421
204371 -11	WELL-12-220421
204371 -12	WELL-13-220421
204371 -13	WELL-FD-220421
204371 -14	Trip Blank-220421

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/05/22 Date Received: 04/22/22 Project: 1581-21001-02, F&BI 204371 Date Extracted: 04/25/22 Date Analyzed: 04/25/22

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

Results Reported as ug/L (ppb)

~

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	Surrogate (<u>% Recovery)</u> (Limit 51-134)
WELL-2-220421 204371-01	<100	71
WELL-3-220421 204371-02	<100	62
WELL-4-220421 204371-03	<100	66
WELL-5-220421 204371-04	<100	67
WELL-6-220421 204371-05	<100	63
WELL-7-220421 204371-06	<100	62
WELL-8-220421 204371-07	<100	65
WELL-9-220421 204371-08	<100	64
WELL-10-220421 204371-09	<100	68
WELL-11-220421 204371-10	<100	68
WELL-12-220421 204371-11	<100	71

ENVIRONMENTAL CHEMISTS

Date of Report: 05/05/22 Date Received: 04/22/22 Project: 1581-21001-02, F&BI 204371 Date Extracted: 04/25/22 Date Analyzed: 04/25/22

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

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	Surrogate (<u>% Recovery)</u> (Limit 51-134)
WELL-13-220421 204371-12	<100	86
WELL-FD-220421 204371-13	<100	89
Method Blank 02-887 MB	<100	69

ENVIRONMENTAL CHEMISTS

Date of Report: 05/05/22 Date Received: 04/22/22 Project: 1581-21001-02, F&BI 204371 Date Extracted: 04/22/22 Date Analyzed: 04/22/22

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

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	Diesel Range (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	Surrogate <u>(% Recovery)</u> (Limit 41-152)
WELL-2-220421 204371-01	<50	<250	122
WELL-3-220421 204371-02	<50	<250	122
WELL-4-220421 204371-03	<50	<250	132
WELL-5-220421 204371-04	<50	<250	138
WELL-6-220421 204371-05	<50	<250	129
WELL-7-220421 204371-06	<50	<250	128
WELL-8-220421 204371-07	<50	<250	138
WELL-9-220421 204371-08	<50	<250	129
WELL-10-220421 204371-09	<50	<250	120
WELL-11-220421 204371-10	130 x	<250	141
WELL-12-220421 204371-11	<50	<250	141
WELL-13-220421 204371-12	<50	<250	135

ENVIRONMENTAL CHEMISTS

Date of Report: 05/05/22 Date Received: 04/22/22 Project: 1581-21001-02, F&BI 204371 Date Extracted: 04/22/22 Date Analyzed: 04/22/22

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

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	Diesel Range (C10-C25)	Motor Oil Range (C25-C36)	Surrogate <u>(% Recovery)</u> (Limit 41-152)
WELL-FD-220421 204371-13	<50	<250	128
Method Blank 02-983 MB	<50	<250	131

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	WELL-12-220421	Client:	Evren Northwest
Date Received:	04/22/22	Project:	1581-21001-02, F&BI 204371
Date Extracted:	04/26/22	Lab ID:	204371-11
Date Analyzed:	04/26/22	Data File:	204371-11.047
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP
	Concentration		
Analyte:	ug/L (ppb)		
Cadmium	<1		
Lead	<1		
Cadmium	ug/L (ppb) <1		

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix:	Method Blank NA 04/26/22 04/26/22 Water	Client: Project: Lab ID: Data File: Instrument:	Evren Northwest 1581-21001-02, F&BI 204371 I2-308 mb2 I2-308 mb2.043 ICPMS2
Units:	ug/L (ppb) Concentration	Operator:	SP
Analyte: Cadmium	ug/L (ppb) <1		
Lead	<1		

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	WELL-2-22 04/22/22 04/25/22 04/25/22 Water ug/L (ppb)	0421	Client: Project: Lab ID: Data File: Instrument: Operator:	Evren Northwest 1581-21001-02, F&BI 204371 204371-01 042533.D GCMS11 RF
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 100 96 99	Lower Limit: 78 84 72	Upper Limit: 126 115 130
Compounds:		Concentration ug/L (ppb)		
Methyl t-butyl ethe 1,2-Dichloroethane Benzene Toluene 1,2-Dibromoethane Ethylbenzene m,p-Xylene o-Xylene Isopropylbenzene n-Propylbenzene 1,3,5-Trimethylber 1,2,4-Trimethylber Naphthalene	e (EDC) e (EDB) nzene	<1 <0.2 <0.35 <1 <1 <1 <2 <1 <1 <1 <1 <1 <1 <1 <1		

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	WELL-3-22 04/22/22 04/25/22 04/26/22 Water ug/L (ppb)	20421	Client: Project: Lab ID: Data File: Instrument: Operator:	Evren Northwest 1581-21001-02, F&BI 204371 204371-02 042609.D GCMS11 RF
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 97 97 95	Lower Limit: 78 84 72	Upper Limit: 126 115 130
Compounds:		Concentration ug/L (ppb)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride Methyl t-butyl ethe trans-1,2-Dichloroethane cis-1,2-Dichloroethane 1,1-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Toluene Tetrachloroethene 1,2-Dibromoethane Ethylbenzene m,p-Xylene Isopropylbenzene	er (MTBE) ethene ene (EDC) ne	<pre><0.02 <1 <1 <1 <5 <1 <1 <1 <1 <1 <1 <1 <0.2 <1 <0.35 <0.5 <1 <1 <1 <1 <1 <1 <2 <1 <1 <2 <1 <1 <1 <2 <1 <1 <1 <1 <1 <2 <1 <1</pre>		
n-Propylbenzene 1,3,5-Trimethylben 1,2,4-Trimethylben Naphthalene		<1 <1 <1 <1 <1		

ENVIRONMENTAL CHEMISTS

Date Received:0Date Extracted:0Date Analyzed:0Matrix:V	VELL-4-220)4/22/22)4/25/22)4/26/22 Vater Ig/L (ppb)	421	Client: Project: Lab ID: Data File: Instrument: Operator:	Evren Northwest 1581-21001-02, F&BI 204371 204371-03 042610.D GCMS11 RF
Surrogates: 1,2-Dichloroethane-d4 Toluene-d8 4-Bromofluorobenzen	e	% Recovery: 113 97 102 Concentration	Lower Limit: 78 84 72	Upper Limit: 126 115 130
Compounds:	· · · · · · · · · · · · · · · · · · ·	ug/L (ppb)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride Methyl t-butyl ether (trans-1,2-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane (E 1,1,1-Trichloroethane Benzene Trichloroethene Toluene Tetrachloroethene 1,2-Dibromoethane (E Ethylbenzene m,p-Xylene o-Xylene Isopropylbenzene	ene EDC)	< 0.02 < 1 < 1 < 5 < 1 < 1 < 1 < 1 < 0.2 < 1 < 0.35 < 0.5 < 1 < 1		
n-Propylbenzene 1,3,5-Trimethylbenze 1,2,4-Trimethylbenze Naphthalene		<1 <1 <1 <1		

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	WELL-5-22 04/22/22 04/25/22 04/29/22 Water ug/L (ppb)	0421	Client: Project: Lab ID: Data File: Instrument: Operator:	Evren Northwest 1581-21001-02, F&BI 204371 204371-04 042941.D GCMS13 WE
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 99 98 102	Lower Limit: 85 88 90	Upper Limit: 117 112 111
Compounds:		Concentration ug/L (ppb)		
Methyl t-butyl ethe 1,2-Dichloroethane Benzene Toluene 1,2-Dibromoethane Ethylbenzene m,p-Xylene o-Xylene Isopropylbenzene n-Propylbenzene 1,3,5-Trimethylben 1,2,4-Trimethylben Naphthalene	e (EDC) e (EDB) azene	<1 <0.2 <0.35 <1 <1 <1 <2 <1 <1 <1 <1 <1 <1 <1 <1		

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	WELL-6-22 04/22/22 04/25/22 04/25/22 Water ug/L (ppb)	0421	Client: Project: Lab ID: Data File: Instrument: Operator:	Evren Northwest 1581-21001-02, F&BI 204371 204371-05 042535.D GCMS11 RF
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 108 94 96	Lower Limit: 78 84 72	Upper Limit: 126 115 130
Compounds:		Concentration ug/L (ppb)		
Methyl t-butyl ethe 1,2-Dichloroethane Benzene Toluene 1,2-Dibromoethane Ethylbenzene m,p-Xylene o-Xylene Isopropylbenzene n-Propylbenzene 1,3,5-Trimethylber 1,2,4-Trimethylber Naphthalene	e (EDC) e (EDB) azene	<1 <0.2 <0.35 <1 <1 <1 <2 <1 <1 <1 <1 <1 <1 <1 <1		

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	WELL-7-22 04/22/22 04/25/22 04/25/22 Water ug/L (ppb)	0421	Client: Project: Lab ID: Data File: Instrument: Operator:	Evren Northwest 1581-21001-02, F&BI 204371 204371-06 042536.D GCMS11 RF
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 105 98 96	Lower Limit: 78 84 72	Upper Limit: 126 115 130
Compounds:		Concentration ug/L (ppb)		
Methyl t-butyl ethe 1,2-Dichloroethane Benzene Toluene 1,2-Dibromoethane Ethylbenzene m,p-Xylene o-Xylene Isopropylbenzene 1,3,5-Trimethylben 1,2,4-Trimethylben Naphthalene	(EDC) e (EDB) zene	<1 <0.2 <0.35 <1 <1 <1 <2 <1 <1 <1 <1 <1 <1 <1 <1		

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	WELL-8-22 04/22/22 04/25/22 04/25/22 Water ug/L (ppb)	0421	Client: Project: Lab ID: Data File: Instrument: Operator:	Evren Northwest 1581-21001-02, F&BI 204371 204371-07 042537.D GCMS11 RF
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 101 100 101	Lower Limit: 78 84 72	Upper Limit: 126 115 130
Compounds:		Concentration ug/L (ppb)		
Methyl t-butyl ethe 1,2-Dichloroethane Benzene Toluene 1,2-Dibromoethane Ethylbenzene m,p-Xylene o-Xylene Isopropylbenzene n-Propylbenzene 1,3,5-Trimethylber Naphthalene	e (EDC) e (EDB) azene	<1 <0.2 <0.35 <1 <1 <1 <2 <1 <1 <1 <1 <1 <1 <1 <1		

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	WELL-9-22 04/22/22 04/25/22 04/25/22 Water ug/L (ppb)	0421	Client: Project: Lab ID: Data File: Instrument: Operator:	Evren Northwest 1581-21001-02, F&BI 204371 204371-08 042538.D GCMS11 RF
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 104 100 102	Lower Limit: 78 84 72	Upper Limit: 126 115 130
Compounds:		Concentration ug/L (ppb)		
Methyl t-butyl ethe 1,2-Dichloroethane Benzene Toluene 1,2-Dibromoethane Ethylbenzene m,p-Xylene o-Xylene Isopropylbenzene n-Propylbenzene 1,3,5-Trimethylber 1,2,4-Trimethylber Naphthalene	(EDC) e (EDB) zene	<1 <0.2 <0.35 <1 <1 <1 <2 <1 <1 <1 <1 <1 <1 <1 <1		

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	WELL-10-2 04/22/22 04/25/22 04/26/22 Water ug/L (ppb)	20421	Client: Project: Lab ID: Data File: Instrument: Operator:	Evren Northwest 1581-21001-02, F&BI 204371 204371-09 042611.D GCMS11 RF
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 102 94 86	Lower Limit: 78 84 72	Upper Limit: 126 115 130
Compounds:		Concentration ug/L (ppb)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride Methyl t-butyl ethe trans-1,2-Dichloroethane cis-1,2-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Toluene Tetrachloroethene 1,2-Dibromoethane Ethylbenzene m,p-Xylene o-Xylene Isopropylbenzene	er (MTBE) ethene ene (EDC) ne	<pre><0.02 <1 <1 <1 <5 <1 <1 <1 <1 <1 <1 <1 <0.2 <1 <0.35 <0.5 <1 <1 <1 <1 <1 <1 <1 <2 <1 <2 <1 <1 <1 <2 <1 <1 <1 <1 <1 <2 <1 <1 <1 <1 <1 <1 <2 <1 <1</pre>		
n-Propylbenzene 1,3,5-Trimethylben 1,2,4-Trimethylben Naphthalene		<1 <1 <1 <1 <1		

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	WELL-11-2 04/22/22 04/25/22 04/25/22 Water ug/L (ppb)	20421	Client: Project: Lab ID: Data File: Instrument: Operator:	Evren Northwest 1581-21001-02, F&BI 204371 204371-10 042539.D GCMS11 RF
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 112 99 97	Lower Limit: 78 84 72	Upper Limit: 126 115 130
Compounds:		Concentration ug/L (ppb)		
Methyl t-butyl ethe 1,2-Dichloroethane Benzene Toluene 1,2-Dibromoethane Ethylbenzene m,p-Xylene o-Xylene Isopropylbenzene n-Propylbenzene 1,3,5-Trimethylber 1,2,4-Trimethylber Naphthalene	e (EDC) e (EDB) azene	<1 <0.2 <0.35 <1 <1 <1 <1 <2 <1 <1 <1 <1 <1 <1 <1 39		

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	WELL-12-2 04/22/22 04/25/22 04/25/22 Water ug/L (ppb)	20421	Client: Project: Lab ID: Data File: Instrument: Operator:	Evren Northwest 1581-21001-02, F&BI 204371 204371-11 042540.D GCMS11 RF
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 102 98 96	Lower Limit: 78 84 72	Upper Limit: 126 115 130
Compounds:		Concentration ug/L (ppb)		
Methyl t-butyl ethe 1,2-Dichloroethane Benzene Toluene 1,2-Dibromoethane Ethylbenzene m,p-Xylene o-Xylene Isopropylbenzene n-Propylbenzene 1,3,5-Trimethylber 1,2,4-Trimethylber Naphthalene	e (EDC) e (EDB) nzene	<1 <0.2 <0.35 <1 <1 <1 <2 <1 <1 <1 <1 <1 <1 <1 <1		

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	WELL-13-2 04/22/22 04/25/22 04/25/22 Water ug/L (ppb)	20421	Client: Project: Lab ID: Data File: Instrument: Operator:	Evren Northwest 1581-21001-02, F&BI 204371 204371-12 042541.D GCMS11 RF
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 106 98 101	Lower Limit: 78 84 72	Upper Limit: 126 115 130
Compounds:		Concentration ug/L (ppb)		
Methyl t-butyl ethe 1,2-Dichloroethane Benzene Toluene 1,2-Dibromoethane Ethylbenzene m,p-Xylene o-Xylene Isopropylbenzene n-Propylbenzene 1,3,5-Trimethylber 1,2,4-Trimethylber Naphthalene	e (EDC) e (EDB) azene	<1 <0.2 <0.35 <1 <1 <1 <2 <1 <1 <1 <1 <1 <1 <1 <1		

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	WELL-FD- 04/22/22 04/25/22 04/26/22 Water ug/L (ppb)	220421	Client: Project: Lab ID: Data File: Instrument: Operator:	Evren Northwest 1581-21001-02, F&BI 204371 204371-13 042612.D GCMS11 RF
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 106 96 96	Lower Limit: 78 84 72	Upper Limit: 126 115 130
Compounds:		Concentration ug/L (ppb)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride Methyl t-butyl ethe trans-1,2-Dichloroethane cis-1,2-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Toluene Tetrachloroethene 1,2-Dibromoethane Ethylbenzene m,p-Xylene Isopropylbenzene n-Propylbenzene	er (MTBE) ethene ene (EDC) ne	< 0.02 < 1 < 1 < 1 < 5 < 1 < 1 < 1 < 1 < 1 < 1		
1,3,5-Trimethylben 1,2,4-Trimethylben Naphthalene		<1 <1 <1		

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Trip Blank- 04/22/22 04/25/22 04/25/22 Water ug/L (ppb)	220421	Client: Project: Lab ID: Data File: Instrument: Operator:	Evren Northwest 1581-21001-02, F&BI 204371 204371-14 042542.D GCMS11 RF
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 107 102 98	Lower Limit: 78 84 72	Upper Limit: 126 115 130
Compounds:		Concentration ug/L (ppb)		
Methyl t-butyl ethe 1,2-Dichloroethane Benzene Toluene 1,2-Dibromoethane Ethylbenzene m,p-Xylene o-Xylene Isopropylbenzene 1,3,5-Trimethylben 1,2,4-Trimethylben Naphthalene	(EDC) e (EDB) zzene	<1 <0.2 <0.35 <1 <1 <1 <2 <1 <1 <1 <1 <1 <1 <1 <1		

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Bla Not Applica 04/25/22 04/25/22 Water ug/L (ppb)		Client: Project: Lab ID: Data File: Instrument: Operator:	Evren Northwest 1581-21001-02, F&BI 204371 02-984 mb 042507.D GCMS11 RF
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 102 101 101	Lower Limit: 78 84 72	Upper Limit: 126 115 130
Compounds:		Concentration ug/L (ppb)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride Methyl t-butyl ethe trans-1,2-Dichloroethane cis-1,2-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane Trichloroethene Toluene Tetrachloroethene 1,2-Dibromoethane Ethylbenzene m,p-Xylene o-Xylene	er (MTBE) ethene ene (EDC) ne	<pre><0.02 <1 <1 <1 <5 <1 <1 <1 <1 <1 <0.2 <1 <0.2 <1 <0.35 <0.5 <1 <1 <1 <1 <1 <1 <1 <2 <1 <2 <1</pre>		
Isopropylbenzene n-Propylbenzene 1,3,5-Trimethylben 1,2,4-Trimethylben Naphthalene		<1 <1 <1 <1 <1 <1		

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	WELL-2-220 04/22/22 04/25/22 04/26/22 Water ug/L (ppb))421	Client: Project: Lab ID: Data File: Instrument: Operator:	Evren Northwest 1581-21001-02, F&BI 204371 204371-01 1/2 042615.D GCMS9 VM
Surrogates: 2-Fluorophenol Phenol-d6 Nitrobenzene-d5 2-Fluorobiphenyl 2,4,6-Tribromopher Terphenyl-d14	nol	% Recovery: 32 28 82 85 87 110		Upper Limit: 60 49 144 128 142 138
Compounds:		Concentration ug/L (ppb)		
Benz(a)anthracene Chrysene Benzo(a)pyrene Benzo(b)fluoranthe Benzo(k)fluoranthe Indeno(1,2,3-cd)pyr Dibenz(a,h)anthrac	ene ene rene	<0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04		

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	WELL-3-22042 04/22/22 04/25/22 04/26/22 Water ug/L (ppb)	21	Client: Project: Lab ID: Data File: Instrument: Operator:	Evren Northwest 1581-21001-02, F&BI 204371 204371-02 1/2 042616.D GCMS9 VM
Surrogates: 2-Fluorophenol Phenol-d6 Nitrobenzene-d5 2-Fluorobiphenyl 2,4,6-Tribromopher Terphenyl-d14		9 Recovery: 34 27 88 88 88 83 108		Upper Limit: 60 49 144 128 142 138
Compounds:		ncentration 1g/L (ppb)		
Benz(a)anthracene Chrysene Benzo(a)pyrene Benzo(b)fluoranthe Benzo(k)fluoranthe Indeno(1,2,3-cd)pyr Dibenz(a,h)anthrac	ene ene rene	<0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04		

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	WELL-4-220 04/22/22 04/25/22 04/26/22 Water ug/L (ppb))421	Client: Project: Lab ID: Data File: Instrument: Operator:	Evren Northwest 1581-21001-02, F&BI 204371 204371-03 1/2 042617.D GCMS9 VM
Surrogates: 2-Fluorophenol Phenol-d6 Nitrobenzene-d5 2-Fluorobiphenyl 2,4,6-Tribromopher Terphenyl-d14	nol	% Recovery: 40 30 94 92 91 112		Upper Limit: 60 49 144 128 142 138
Compounds:		Concentration ug/L (ppb)		
Benz(a)anthracene Chrysene Benzo(a)pyrene Benzo(b)fluoranthe Benzo(k)fluoranthe Indeno(1,2,3-cd)pyr Dibenz(a,h)anthrac	ene ene cene	<0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04		

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	WELL-5-220 04/22/22 04/25/22 04/26/22 Water ug/L (ppb)	0421	Client: Project: Lab ID: Data File: Instrument: Operator:	Evren Northwest 1581-21001-02, F&BI 204371 204371-04 1/2 042618.D GCMS9 VM
Surrogates: 2-Fluorophenol Phenol-d6 Nitrobenzene-d5 2-Fluorobiphenyl 2,4,6-Tribromopher Terphenyl-d14	nol	% Recovery: 40 30 86 85 94 113		Upper Limit: 60 49 144 128 142 138
Compounds:		Concentration ug/L (ppb)		
Benz(a)anthracene Chrysene Benzo(a)pyrene Benzo(b)fluoranthe Benzo(k)fluoranthe Indeno(1,2,3-cd)pyr Dibenz(a,h)anthrac	ene ene rene	<0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04		

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	WELL-6-220 04/22/22 04/25/22 04/26/22 Water ug/L (ppb)	421	Client: Project: Lab ID: Data File: Instrument: Operator:	Evren Northwest 1581-21001-02, F&BI 204371 204371-05 1/2 042619.D GCMS9 VM
Surrogates: 2-Fluorophenol Phenol-d6 Nitrobenzene-d5 2-Fluorobiphenyl 2,4,6-Tribromopher Terphenyl-d14	nol	% Recovery: 34 26 88 88 85 107		Upper Limit: 60 49 144 128 142 138
Compounds:	(Concentration ug/L (ppb)		
Benz(a)anthracene Chrysene Benzo(a)pyrene Benzo(b)fluoranthe Benzo(k)fluoranthe Indeno(1,2,3-cd)pyr Dibenz(a,h)anthrac	ene ene rene	<0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04		

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	WELL-7-220 04/22/22 04/25/22 04/26/22 Water ug/L (ppb)	421	Client: Project: Lab ID: Data File: Instrument: Operator:	Evren Northwest 1581-21001-02, F&BI 204371 204371-06 1/2 042620.D GCMS9 VM
Surrogates: 2-Fluorophenol Phenol-d6 Nitrobenzene-d5 2-Fluorobiphenyl 2,4,6-Tribromopher Terphenyl-d14	nol	% Recovery: 14 23 46 74 89 113		Upper Limit: 60 49 144 128 142 138
Compounds:	(Concentration ug/L (ppb)		
Benz(a)anthracene Chrysene Benzo(a)pyrene Benzo(b)fluoranthe Benzo(k)fluoranthe Indeno(1,2,3-cd)pyr Dibenz(a,h)anthrac	ene ene rene	<0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04		

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	WELL-8-220 04/22/22 04/25/22 04/26/22 Water ug/L (ppb)	0421	Client: Project: Lab ID: Data File: Instrument: Operator:	Evren Northwest 1581-21001-02, F&BI 204371 204371-07 1/2 042621.D GCMS9 VM
Surrogates: 2-Fluorophenol Phenol-d6 Nitrobenzene-d5 2-Fluorobiphenyl 2,4,6-Tribromopher Terphenyl-d14	nol	% Recovery: 39 28 87 80 85 111		Upper Limit: 60 49 144 128 142 138
Compounds:		Concentration ug/L (ppb)		
Benz(a)anthracene Chrysene Benzo(a)pyrene Benzo(b)fluoranthe Benzo(k)fluoranthe Indeno(1,2,3-cd)pyr Dibenz(a,h)anthrac	ene ene rene	<0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04		

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	WELL-9-220 04/22/22 04/25/22 04/26/22 Water ug/L (ppb)	0421	Client: Project: Lab ID: Data File: Instrument: Operator:	Evren Northwest 1581-21001-02, F&BI 204371 204371-08 1/2 042622.D GCMS9 VM
Surrogates: 2-Fluorophenol Phenol-d6 Nitrobenzene-d5 2-Fluorobiphenyl 2,4,6-Tribromopher Terphenyl-d14	nol	% Recovery: 29 27 80 84 82 111		Upper Limit: 60 49 144 128 142 138
Compounds:		Concentration ug/L (ppb)		
Benz(a)anthracene Chrysene Benzo(a)pyrene Benzo(b)fluoranthe Benzo(k)fluoranthe Indeno(1,2,3-cd)pyr Dibenz(a,h)anthrac	ene ene cene	<0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04		

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	WELL-10-22 04/22/22 04/25/22 04/26/22 Water ug/L (ppb)	20421	Client: Project: Lab ID: Data File: Instrument: Operator:	Evren Northwest 1581-21001-02, F&BI 204371 204371-09 1/2 042623.D GCMS9 VM
Surrogates: 2-Fluorophenol Phenol-d6 Nitrobenzene-d5 2-Fluorobiphenyl 2,4,6-Tribromopher Terphenyl-d14	nol	$\% \ { m Recovery:} \ 24 \ 22 \ 69 \ 76 \ 82 \ 108 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$		Upper Limit: 60 49 144 128 142 138
Compounds:		Concentration ug/L (ppb)		
Benz(a)anthracene Chrysene Benzo(a)pyrene Benzo(b)fluoranthe Benzo(k)fluoranthe Indeno(1,2,3-cd)pyr Dibenz(a,h)anthrac	ene ene rene	<0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04		

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	WELL-11-22 04/22/22 04/25/22 04/26/22 Water ug/L (ppb)	20421	Client: Project: Lab ID: Data File: Instrument: Operator:	Evren Northwest 1581-21001-02, F&BI 204371 204371-10 1/2 042624.D GCMS9 VM
Surrogates: 2-Fluorophenol Phenol-d6 Nitrobenzene-d5 2-Fluorobiphenyl 2,4,6-Tribromopher Terphenyl-d14	nol	% Recovery: 21 21 72 73 88 111		Upper Limit: 60 49 144 128 142 138
Compounds:		Concentration ug/L (ppb)		
Benz(a)anthracene Chrysene Benzo(a)pyrene Benzo(b)fluoranthe Benzo(k)fluoranthe Indeno(1,2,3-cd)pyr Dibenz(a,h)anthrac	ene ene cene	<0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04		

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	WELL-12-2 04/22/22 04/25/22 04/26/22 Water ug/L (ppb)	20421	Client: Project: Lab ID: Data File: Instrument: Operator:	Evren Northwest 1581-21001-02, F&BI 204371 204371-11 1/2 042610.D GCMS12 VM
Surrogates: 2-Fluorophenol Phenol-d6 Nitrobenzene-d5 2-Fluorobiphenyl 2,4,6-Tribromopher Terphenyl-d14	nol	$\% \ { m Recovery:} \ 17 \ 17 \ 52 \ 64 \ 65 \ 101 \ 101 \ 101 \ 101 \ 100\ \ 100 \ 100 \ 100 \ 100 \ 100 \ 100 \ 100 \ 100 \ 100 \ 100 \$	Lower Limit: 11 50 44 10 50	Upper Limit: 65 65 150 108 140 150
Compounds:		Concentration ug/L (ppb)		
Benz(a)anthracene Chrysene Benzo(a)pyrene Benzo(b)fluoranthe Benzo(k)fluoranthe Indeno(1,2,3-cd)pyr Dibenz(a,h)anthrac	ene ene rene	<0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04		

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	WELL-13-22 04/22/22 04/25/22 04/26/22 Water ug/L (ppb)	20421	Client: Project: Lab ID: Data File: Instrument: Operator:	Evren Northwest 1581-21001-02, F&BI 204371 204371-12 1/2 042611.D GCMS12 VM
Surrogates: 2-Fluorophenol Phenol-d6 Nitrobenzene-d5 2-Fluorobiphenyl 2,4,6-Tribromopher Terphenyl-d14	nol	% Recovery: 43 33 83 88 85 103	Lower Limit: 11 50 44 10 50	Upper Limit: 65 65 150 108 140 150
Compounds:		Concentration ug/L (ppb)		
Benz(a)anthracene Chrysene Benzo(a)pyrene Benzo(b)fluoranthe Benzo(k)fluoranthe Indeno(1,2,3-cd)pyr Dibenz(a,h)anthrac	ene ene cene	<0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04		

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	WELL-FD-2 04/22/22 04/25/22 04/26/22 Water ug/L (ppb)	220421	Client: Project: Lab ID: Data File: Instrument: Operator:	Evren Northwest 1581-21001-02, F&BI 204371 204371-13 1/2 042612.D GCMS12 VM
Surrogates: 2-Fluorophenol Phenol-d6 Nitrobenzene-d5 2-Fluorobiphenyl 2,4,6-Tribromopher Terphenyl-d14	nol	% Recovery: 20 20 62 76 73 102	Lower Limit: 11 50 44 10 50	Upper Limit: 65 65 150 108 140 150
Compounds:		Concentration ug/L (ppb)		
Benz(a)anthracene Chrysene Benzo(a)pyrene Benzo(b)fluoranthe Benzo(k)fluoranthe Indeno(1,2,3-cd)pyr Dibenz(a,h)anthrac	ene ene rene	<0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04		

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Blank Not Applicable 04/25/22 04/26/22 Water ug/L (ppb)	Client: Project: Lab ID: Data File: Instrument: Operator:	Evren Northwest 1581-21001-02, F&BI 204371 02-1025 mb 042609.D GCMS12 VM
Surrogates: 2-Fluorophenol Phenol-d6 Nitrobenzene-d5 2-Fluorobiphenyl 2,4,6-Tribromopher Terphenyl-d14	% Recover 21 14 87 90 nol 80 108	y: Lower 11 11 11 50 44 10 50	Upper Limit: 65 65 150 108 140 150
Compounds:	Concentrati ug/L (ppb		
Benz(a)anthracene Chrysene Benzo(a)pyrene Benzo(b)fluoranthe Benzo(k)fluoranthe Indeno(1,2,3-cd)pyr Dibenz(a,h)anthrac	 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 		

ENVIRONMENTAL CHEMISTS

Date of Report: 05/05/22 Date Received: 04/22/22 Project: 1581-21001-02, F&BI 204371

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

Laboratory Code: 204371-01 (Duplicate)							
	Reporting Sample Duplicate		plicate	RPD			
Analyte	Units	Resul	lt Re	esult	(Limit 20)		
Gasoline	ug/L (ppb)	<100) <	:100	nm		
Laboratory Code: Laboratory Control Sample Percent							
A 1.	Reporting	Spike	Recovery	Acceptance			
Analyte	Units	Level	LCS	Criteria	-		
Gasoline	ug/L (ppb)	1,000	80	69-134			

ENVIRONMENTAL CHEMISTS

Date of Report: 05/05/22 Date Received: 04/22/22 Project: 1581-21001-02, F&BI 204371

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	96	96	63-142	0

ENVIRONMENTAL CHEMISTS

Date of Report: 05/05/22 Date Received: 04/22/22 Project: 1581-21001-02, F&BI 204371

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

Laboratory Co	de: 204333-02 x	10 (Matri	ix Spike)				
		~ .1	~ .	Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Cadmium	ug/L (ppb)	5	<10	83	96	75 - 125	15
Lead	ug/L (ppb)	10	<10	78	87	75 - 125	11

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Cadmium	ug/L (ppb)	5	96	80-120
Lead	ug/L (ppb)	10	93	80-120

ENVIRONMENTAL CHEMISTS

Date of Report: 05/05/22 Date Received: 04/22/22 Project: 1581-21001-02, F&BI 204371

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

Laboratory Code: 204374-01 (Matrix Spike)

Laboratory Code: 204374-01 (W	iaurix opike)			Percent	
	Reporting	Spike	Sample	Recovery	Acceptance
Analyte	Units	Level	Result	MS	Criteria
Vinyl chloride	ug/L (ppb)	10	0.021	105	50-150
Chloroethane	ug/L (ppb)	10	<1	95	50 - 150
1,1-Dichloroethene	ug/L (ppb)	10	<1	112	50 - 150
Methylene chloride	ug/L (ppb)	10	<5	148	50 - 150
trans-1,2-Dichloroethene	ug/L (ppb)	10	<1	137	50 - 150
1,1-Dichloroethane	ug/L (ppb)	10	<1	98	50 - 150
cis-1,2-Dichloroethene	ug/L (ppb)	10	<1	95	50 - 150
1,2-Dichloroethane (EDC)	ug/L (ppb)	10	< 0.2	101	50 - 150
1,1,1-Trichloroethane	ug/L (ppb)	10	<1	95	50 - 150
Trichloroethene	ug/L (ppb)	10	$<\!0.5$	100	50 - 150
Tetrachloroethene	ug/L (ppb)	10	<1	101	50 - 150
Methyl t-butyl ether (MTBE)	ug/L (ppb)	10	<1	129	50 - 150
1,2-Dichloroethane (EDC)	ug/L (ppb)	10	< 0.2	101	50 - 150
Benzene	ug/L (ppb)	10	< 0.35	98	50 - 150
Toluene	ug/L (ppb)	10	<1	97	50 - 150
1,2-Dibromoethane (EDB)	ug/L (ppb)	10	<1	102	50 - 150
Ethylbenzene	ug/L (ppb)	10	<1	98	50 - 150
m,p-Xylene	ug/L (ppb)	20	<2	97	50 - 150
o-Xylene	ug/L (ppb)	10	<1	96	50 - 150
Isopropylbenzene	ug/L (ppb)	10	<1	97	50 - 150
n-Propylbenzene	ug/L (ppb)	10	<1	100	50 - 150
1,3,5-Trimethylbenzene	ug/L (ppb)	10	<1	97	50 - 150
1,2,4-Trimethylbenzene	ug/L (ppb)	10	<1	100	50 - 150
Naphthalene	ug/L (ppb)	10	<1	109	50 - 150

ENVIRONMENTAL CHEMISTS

Date of Report: 05/05/22 Date Received: 04/22/22 Project: 1581-21001-02, F&BI 204371

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

Laboratory Coue. Laboratory Co	sittor Sample		Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Vinyl chloride	ug/L (ppb)	10	109	107	70-130	2
Chloroethane	ug/L (ppb)	10	89	99	70-130	11
1,1-Dichloroethene	ug/L (ppb)	10	109	108	70-130	1
Methylene chloride	ug/L (ppb)	10	107	105	43-134	2
trans-1,2-Dichloroethene	ug/L (ppb)	10	97	96	70-130	1
1,1-Dichloroethane	ug/L (ppb)	10	98	98	70-130	0
cis-1,2-Dichloroethene	ug/L (ppb)	10	96	95	70-130	1
1,2-Dichloroethane (EDC)	ug/L (ppb)	10	99	99	70-130	0
1,1,1-Trichloroethane	ug/L (ppb)	10	99	97	70-130	2
Trichloroethene	ug/L (ppb)	10	97	95	70-130	2
Tetrachloroethene	ug/L (ppb)	10	98	97	70-130	1
Methyl t-butyl ether (MTBE)	ug/L (ppb)	10	95	94	70-130	1
1,2-Dichloroethane (EDC)	ug/L (ppb)	10	99	99	70-130	0
Benzene	ug/L (ppb)	10	94	93	70-130	1
Toluene	ug/L (ppb)	10	95	95	70-130	0
1,2-Dibromoethane (EDB)	ug/L (ppb)	10	100	101	70-130	1
Ethylbenzene	ug/L (ppb)	10	98	98	70 - 130	0
m,p-Xylene	ug/L (ppb)	20	97	96	70 - 130	1
o-Xylene	ug/L (ppb)	10	98	97	70-130	1
Isopropylbenzene	ug/L (ppb)	10	99	99	70-130	0
n-Propylbenzene	ug/L (ppb)	10	99	99	70-130	0
1,3,5-Trimethylbenzene	ug/L (ppb)	10	101	97	70-130	4
1,2,4-Trimethylbenzene	ug/L (ppb)	10	102	100	70-130	2
Naphthalene	ug/L (ppb)	10	103	114	70-130	10

ENVIRONMENTAL CHEMISTS

Date of Report: 05/05/22 Date Received: 04/22/22 Project: 1581-21001-02, F&BI 204371

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

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Benz(a)anthracene	ug/L (ppb)	5	97	99	70-130	2
Chrysene	ug/L (ppb)	5	99	99	70-130	0
Benzo(a)pyrene	ug/L (ppb)	5	105	106	70-130	1
Benzo(b)fluoranthene	ug/L (ppb)	5	103	105	70-130	2
Benzo(k)fluoranthene	ug/L (ppb)	5	103	102	70-130	1
Indeno(1,2,3-cd)pyrene	ug/L (ppb)	5	105	108	70-130	3
Dibenz(a,h)anthracene	ug/L (ppb)	5	111	112	70-130	1

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. 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 lowest calibration standard. The value reported is an estimate.

 ${\rm J}$ - 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.

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.

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