GROUND WATER MONITORING: FOURTH QUARTER 2022

FUTURE KIDDIE ACADEMY PROPERTY
(FMR TEXACO 211544)

8701 Greenwood Avenue North
Seattle, WA 98103

Ecology CSID No. 6416
Ecology FSID No. 63538329

Prepared for:

KIDDIE ACADEMY
EDUCATIONAL CHILD CARE

Attn: Maninder Singh
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This

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Report for:

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Issued October 29, 2022 *by:*

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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
TOC	top of casing
TPH	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 Plan[1] to fulfill Washington Department of Ecology's (Ecology's) change of use requirements[2] 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 14 monitoring wells (Well-2 through Well-13, EMW01, and MW-8) and used low-flow purge and sampling methodology to sample select wells (WELL-2 thru WELL-5, WELL-11, WELL-12, EMW01, and MW-8).
- Submitted samples to an independent laboratory for analysis.
- Evaluated analytical data against MTCA Method A and B cleanup levels.

[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.

- Completed this report describing the above activities and findings.

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 vicinity 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 sub-rounded 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 within glacial deposits in the Seattle area commonly occurs as a seasonal perched 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 gaps[1] 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) were 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 Ground Water Monitoring Program

ENW submitted a request to modify the ground water monitoring program starting in July 2022 after installation of new monitoring well EMW01 in May 2022 and refurbishment of MW-8 in April 2022. ENW proposed eliminating several wells from further monitoring, other than depth to water measurements, with continued monitoring at five locations (including the new well locations just installed and/or

refurbished). Ecology approved the modified ground water monitoring plan with some revisions in an email on June 8, 2022.

The modified schedule followed during this quarterly monitoring and sampling event is explained in Table 4-1.

Table 4-1. Ecology Approved Modified Ground Water Monitoring Program

Well	DTW	TPH-G, -D, -O	Petroleum VOCs	CVOCs	PAHs	Pb+Cd
Well-2	X	X	X		X	
Well-3	X	X	X	X	X	
Well-4	X	X			X	
Well-5	X	X			X	
Well-6	X					
Well-7	X					
Well-8	X					
Well-9	X					
Well-10	X					
Well-11	X	X	X	X	X	
Well-12	X	X	X	X	X	X
Well-13	X					
EMW-01	X	X	X		X	
MW-8	X	X	X		X	

X - Ecology proposed addition

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). 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-of-custody 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 decontamination 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 5-1. Samples were analyzed by F&BI of Seattle, Washington. The laboratory analytical reports are included in Appendix C.

Table 5-1. Analytical Methods

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 [4]	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 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

[4] 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).

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.

Site-Specific Method B Total Petroleum Hydrocarbon Cleanup Levels: In accordance with Ecology guidance[5], site-specific Method B cleanup levels for total petroleum hydrocarbons were calculated using Ecology's MTCATPH workbooks. MTCA regulation allows for modification of Methods B specified default assumptions based on site-specific or chemical-specific data. The Ecology-provided workbook provides the necessary tools for calculating protective soil and ground water concentrations under modified Method B. The Ecology-provided workbook provides the tools to calculate the risk under current site conditions ("forward" calculation) following entry of measured soil or ground water concentrations. The workbook then executes a "backward" calculation using the equations in the regulation and solving for risk and generates protective soil and ground-water cleanup levels based on the site-specific conditions.

6.0 Ground Water Monitoring

6.1.1 Water Level Measurements

On July 25, 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, EMW01 and MW-08 ranged from 0.00 feet (Well-4, -5, -7, -10, -11 and -13) to 3.45 feet (MW-8) below TOC. Note that wells with 0.00 feet depth to water may be artisan.
- Inferred ground water elevation contours (presented on Figure 3) suggest a 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 (as measured between wells WELL-9 and WELL-3) was estimated at 0.040 vertical feet per lineal foot (ft/ft) and in the southern part of the site (as measured between WELL-9 and WELL-2) was estimated at 0.048 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.

[5] Ecology. August 2006. Workbook Tools for Calculating Soil and Ground Water Cleanup Levels under the Model Toxics Control Act Cleanup Regulation

[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 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.

6.2.1 Water Quality Parameters

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

- Temperature ranged from 14.40 (WELL-4) to 17.06 ^{o}C (Well-11).
- 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 237 (MW-8) to 309 (WELL-2) microSiemens per centimeter (µS/cm).
- DO ranged from 0.11 milligrams per liter (mg/L) in WELL-12 to 0.91 mg/L in Well-3.
    - 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 6.50 (WELL-4) and 7.01 (WELL-11), which is at the middle to upper range of pH of natural waters (6 to 9) in Washington.
- ORP ranged from -176 (EMW01) to -17 (WELL-12) millivolts (mV).
    - Positive ORP readings generally suggest oxidizing conditions, which is conducive to degradation of petroleum hydrocarbons. ORP is currently negative in all wells measured, suggesting reductive conditions. 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 -5, WELL-11, WELL-12, EMW01, and MW-8 and screens laboratory results against generic MTCAL CULs.

Summary of third quarter 2022 analytical results:

- **Total Petroleum Hydrocarbons (as GRO, DRO and RRO).** DRO in monitoring wells WELL-2, WELL-4, WELL-5, WELL-11, EMW01 and MW-8 was reported at 99x micrograms per liter (µg/L), 66x µg/L, 73x µg/L, 98x µg/L, 54x and 430X µg/L, respectively. The DRO concentration in MW-8 exceeds the ground water cleanup level of 500 µg/L. The laboratory flagged the results "x" indicting the sample chromatogram patterns do not resemble the fuel standard used for quantitation.

  To further evaluate whether the detection may be related to matrix interference, ENW requested DRO be re-analyzed using a silica gel filter. The silica gel filtered results are presented on Table 3, and results indicate DRO decreased to below the laboratory method reporting limit (MRL) in all samples, suggesting the detections were related to matrix and not petroleum hydrocarbons.

- **VOCs.** Monitoring Wells WELL-2, 3, 11, 12, EMW01 and MW-8 were analyzed for gasoline-related VOCs (BTEX, EDB, EDC, and MTBE) and wells WELL-3, WELL-11 and WELL-12 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. The laboratory also reported methylene chloride in WELL-11 and WELL-1; however, the laboratory flagged these results as likely laboratory contaminants.
- **PAHs.** Monitoring Wells WELL-2, 3, 11, 12, EMW01 and MW-8 were analyzed for PAHs. Trace level PAHs were detected in monitoring wells WMW01, WELL-4, WELL-5, and WELL-11, including acenaphthene and fluorene in all these monitoring wells, fluoranthene in only monitoring well WELL-4, and acenaphthylene in only monitoring well WELL-11. None of the detected PAHs are listed as carcinogenic in Ecology's CLARC data tables and all the detected PAH concentrations were below their respective MTCA Method A and/or Method B ground water cleanup levels.
- **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 EMW01 (sample "MWFD") reported a relative percent difference of 0% for two PAH constituents, the only constituents detected during the monitoring event. 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.

Laboratory results were verified through review of surrogate recovery percentages and the analyses of laboratory method blanks. All the required surrogate recoveries were within acceptable limits and analysis of the method blanks revealed no detectable constituent concentrations, except in the following cases:

- Several PAH compounds did not meet relative percent difference criteria in the laboratory control sample and laboratory control sample duplicate for Method 8270E. None of the compounds were reported above the laboratory MRLs.
- Methylene chloride: the laboratory control sample for Method 8260D was out of acceptance limits.
- Methylene chloride: Laboratory cross-contamination of methylene chloride was implicated in the water sample analyzed from WELL-11, WELL-12, and the method blank.
- 1-methyl Naphthalene: the laboratory control sample duplicate was out of percent recovery acceptance criteria.

None of these QA/QC exceptions are predicted to alter the general findings of this report because either the compound was not detected or is not a contaminant of concern.

7.0 Discussion of Findings

Ground Water Plume Delineation. This ground water monitoring event was the second event to included ground water monitoring data from EMW01 and MW-8 in the analysis of the ground water plume delineation. Ground water flow during this event was generally southwesterly beneath the site, consistent with previous sampling events. No constituents were detected in down gradient wells to the west or southwest of historical source areas on the subject site, and only trace levels of two PAH constituents were detected in cross-gradient well EMW01. Based on currently available data, DRO was not reported in any of the monitoring wells above the site-specific cleanup level for total petroleum hydrocarbons (as a note, the laboratory indicated the presence of high levels of organics and recommended re-analysis of some samples using silica gel cleanup. The silica gel cleanup filtration removes biogenic material that can cause matrix interference during laboratory analysis, and these results are published on Table 3).

Several monitoring wells (WELL-4, WELL-5, WELL-11 and EMW01 had detections of PAHs below CULS during this round of monitoring. Ecology recommended additional data be gathered from well MW-8, WELL-4, and WELL-5 to monitoring current conditions. Laboratory analysis of samples from these wells did not detect VOCs and only trace levels of PAHs during this quarterly 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:

- Considering recent ground water monitoring data, including results of new monitoring well EMW01, and extent of remedial action performed in the past, recent investigations in the ROW that provided greater resolution on the distribution of residual impacts at the site, ENW will produce a site closure report following one of Ecology's model remedies outlined in their petroleum site closure guidance. The report will include appropriate tools that may be helpful in providing site closure without a covenant, including use of statistical methods described in Chapter 10 of Ecology's Guidance for Remediation of Petroleum Contaminated Sites.

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.

Tables

Table 1. Summary of Ground Water Elevations

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		2.64	252.62
	7/25/2022		3.20	252.06
	10/5/2022		2.02	253.24
		Minumum	2.02	252.06
		Maximum	3.20	253.24
WELL-3	1/26/2022	259.53	1.54	257.99
	4/21/2022		1.39	258.14
	7/25/2022		1.80	257.73
	10/5/2022		1.92	257.61
		Minumum	1.39	257.61
		Maximum	1.92	258.14
WELL-4	1/26/2022	257.52	0.00	257.52
	4/21/2022		0.00	257.52
	7/25/2022		0.00	257.52
	10/5/2022		0.00	257.52
		Minumum	0.00	---
		Maximum	0.00	---
WELL-5	1/26/2022	258.22	0.02	258.20
	4/21/2022		0.00	258.22
	7/25/2022		0.00	258.22
	10/5/2022		0.00	258.22
		Minumum	0.00	258.20
		Maximum	0.02	258.22
WELL-6	1/26/2022	259.31	1.05	258.26
	4/21/2022		0.87	258.44
	7/25/2022		1.25	258.06
		Minumum	0.87	258.06
		Maximum	1.25	258.44
WELL-7	1/26/2022	260.39	0.00	260.39
	4/21/2022		0.00	260.39
	7/25/2022		0.00	260.39
	10/5/2022		0.00	260.39
		Minumum	0.00	---
		Maximum	0.00	---
WELL-8	1/26/2022	263.42	2.31	261.11
	4/21/2022		2.10	261.32
	7/25/2022		0.00	---
	10/5/2022		2.04	261.38
		Minumum	0.00	261.11
		Maximum	2.31	261.38
WELL-9	1/26/2022	262.74	1.48	261.26
	4/21/2022		1.51	261.23
	7/25/2022		1.19	261.55
	10/5/2022		1.29	261.45
		Minumum	1.19	261.23
		Maximum	1.51	261.55
WELL-10	1/26/2022	261.52	0.10	261.42
	4/21/2022		0.35	261.17
	7/25/2022		0.00	261.52
	10/5/2022		0.00	261.52
		Minumum	0.00	261.17
		Maximum	0.35	261.52
WELL-11	1/26/2022	261.05	0.05	261.00
	4/21/2022		0.00	261.05
	7/25/2022		0.00	261.05
	10/5/2022		0.00	261.05
		Minumum	0.00	261.00
		Maximum	0.05	261.05
WELL-12	1/26/2022	261.11	0.95	260.16
	4/21/2022		0.50	260.61
	7/25/2022		0.60	260.51
	10/5/2022		0.50	260.61
		Minumum	0.50	260.16
		Maximum	0.95	260.61
WELL-13	1/26/2022	258.39	0.00	258.39
	4/21/2022		0.00	258.39
	7/25/2022		0.00	258.39
	10/5/2022		0.00	258.39
		Minumum	0.00	---
		Maximum	0.00	---
EMW01	7/25/2022	258.92	2.75	256.17
	10/5/2022		3.92	255.00
		Minumum	2.75	255.00
		Maximum	2.75	256.17
MW-8	7/25/2022	255.42	3.45	251.97
	10/5/2022		3.65	251.77
		Minumum	3.45	251.77
		Maximum	3.45	251.97

1 Survey conducted on March 15, 2022 and July 25, 2022, relative to NAD83 and NAVD88.
TOC = top of casing

Table 2. Summary of Water Quality Parameters

Well ID	Date	Temp (°C)	Specific Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	pH	Oxidation-Reduction Potential (mV)	Turbidity (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
	7/25/2022	18.65	320	0.33	7.26	-43	7.24
	10/5/2022	15.04	309	0.80	6.86	-167	18.3
Minumum		8.99	309	0.33	6.81	-167	7.24
Maximum		18.65	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
	7/25/2022	22.14	279	0.39	7.94	-163	2.1
	10/5/2022	15.82	280	0.91	6.7	-123	107
Minumum		10	277	0.33	6.70	-339	1.77
Maximum		22.14	280	1.34	7.94	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
	7/25/2022	17.4	275	0.52	6.98	-122	4.1
	10/5/2022	14.4	273	0.20	6.5	-61.9	1.16
Minumum		11.68	273	0.12	6.50	-643	1.16
Maximum		17.4	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
	7/25/2022	21.04	277	0.43	6.83	-120	7.8
	10/5/2022	16.25	273	0.14	6.65	-58.6	2.84
Minumum		12.50	273	0.14	6.65	-379	2.84
Maximum		21.04	291	1.24	7.84	-58.6	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
	7/25/2022	NM	NM	NM	NM	NM	NM
	10/5/2022	NM	NM	NM	NM	NM	NM
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
	7/25/2022	NM	NM	NM	NM	NM	NM
	10/5/2022	NM	NM	NM	NM	NM	NM
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
	7/25/2022	NM	NM	NM	NM	NM	NM
	10/5/2022	NM	NM	NM	NM	NM	NM
Minumum		10.43	279	0.30	7.23	90	0
Maximum		12.15	285	0.59	8.05	231	140
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
	7/25/2022	NM	NM	NM	NM	NM	NM
	10/5/2022	NM	NM	NM	NM	NM	NM
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
	7/25/2022	NM	NM	NM	NM	NM	NM
	10/5/2022	NM	NM	NM	NM	NM	NM
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
	7/25/2022	20.65	291	0.40	7.82	-60.9	50.29
	10/5/2022	17.06	279	0.56	7.01	-45.6	27.31
Minumum		9.21	279	0.34	7.01	-142	0
Maximum		20.65	291	0.76	7.82	-2.5	50.29
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
	7/25/2022	21.00	271	0.42	7.06	-135	42.1
	10/5/2022	16.18	276	0.11	6.92	-17.1	0
Minumum		9.61	271	0.11	6.92	-135	0
Maximum		21.00	286	0.80	8.03	106.3	42.1
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
	7/25/2022	NM	NM	NM	NM	NM	NM
	10/5/2022	NM	NM	NM	NM	NM	NM
Minumum		11.13	277	0.33	7.19	-145	6.7
Maximum		15.59	284	0.60	7.85	-61	19.6
EMW01	7/25/2022	17.28	314	0.22	7.62	-45	105
	10/5/2022	14.69	301	0.82	6.73	-176	29.7
Minimum		17.28	314	0.22	7.62	-45	105
Maximum		17.28	314	0.22	7.62	-45	105
MW-8	7/25/2022	19.00	241	0.27	6.62	-78	19
	10/5/2022	16.54	237	0.84	6.67	-171	17.9
Minimum		19.00	241	0.27	6.62	-78	19
Maximum		19.00	241	0.27	6.62	-78	19
Range of Monitored Geochemistry Parameters within Monitored Area							
Minumum		8.99	237	0.11	6.50	-643	0
Maximum		22.14	336	1.38	8.05	231	143

°C = degrees Celsius
µS/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-3					Well-4					Well-5				
Sample ID		Well #2	WELL-2-220126	WELL-2-220421	Well-2-220725	Well2-221005	Well #3	WELL-3-220126	WELL-3-220421	Well-3-220725	Well3-221005	Well #4	WELL-4-220126	WELL-4-220421	Well-4-220725	Well4-221005	Well #5	WELL-5-220126	WELL-5-220421	Well-5-220725	Well5-221005
Date Sampled		5/4/2021	1/26/2022	4/21/2022	7/25/2022	10/5/2022	5/4/2021	1/26/2022	4/21/2022	7/25/2022	10/5/2022	5/4/2021	1/26/2022	4/21/2022	7/25/2022	10/5/2022	5/4/2021	1/26/2022	4/21/2022	7/25/2022	10/5/2022
Sampler		ES	ENW	ENW	ENW	ENW	ES	ENW	ENW	ENW	ENW	ES	ENW	ENW	ENW	ENW	ES	ENW	ENW	ENW	ENW
Location		Southwest Corner of Site	Southwest Corner of Site	Southwest Corner of Site	Southwest Corner of Site	Southwest Corner of Site	West of Building, Next to Alley	West of Building, Next to Alley	West of Building, Next to Alley	West of Building, Next to Alley	West of Building, Next to Alley	South of Proposed Play Area	South of Proposed Play Area	South of Proposed Play Area	South of Proposed Play Area	South of Proposed Play Area	Proposed Play Area	Proposed Play Area	Proposed Play Area	Proposed Play Area	Proposed Play Area
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)	µg/L (ppb)	µg/L (ppb)
Volatile Organic Constituents (VOCs)																					
Benzene	c, v	<1 (ND)	<0.35 (ND)	<0.35 (ND)	<0.35 (ND)	<0.35 (ND)	<1 (ND)	<0.35 (ND)	<0.35 (ND)	<0.35 (ND)	<0.35 (ND)	<1 (ND)	<0.35 (ND)	<0.35 (ND)	---	---	<1 (ND)	<0.35 (ND)	<0.35 (ND)	---	---
Bromodichloromethane	c, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Bromoform	c, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Bromomethane	nc, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Butylbenzene, n-	nc, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Butylbenzene, sec-	nc, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Carbon tetrachloride	c, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Chlorobenzene	nc, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dibromochloromethane	c, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Ethyl Chloride	c, v	---	---	---	---	---	---	---	<1 (ND)		---	---	---	<1 (ND)	---	---	---	---	---	---	---
Chloroform	nc, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Chloromethane	nc, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dichlorobenzene;1,2-	nc, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dichlorobenzene;1,3-	nc, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dichlorobenzene;1,4-	c, v	---	---	---	---	---	---	---	<1 (ND)	---	---	---	---	<1 (ND)	---	---	---	---	---	---	---
Dichloroethane;1,1-	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)	---	<1 (ND)	<1 (ND)	---	---	---	---	---	---	---
Dichloroethylene;1,2-,trans	nc, v	---	---	---	---	---	---	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	---	<1 (ND)	<1 (ND)	---	---	---	---	---	---	---
Methylene Chloride	c, v	---	---	---	---	---	---	<5 (ND)	<5 (ND)	<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)	<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 (ND)	<1 (ND)	1	<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)	<1 (ND)	<1 (ND)	---	<0.4 (ND)	<1 (ND)	<1 (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)	---	<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)	---	---
Trichloro-1,2,2-trifluoroethane;1,1,2-	nc, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Trichloroethane;1,1,1-	nc, v	---	---	---	---	---	---	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	---	<1 (ND)	<1 (ND)	---	---	---	---	---	---	---
Trichloroethane;1,1,2-	nc, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Trichloroethylene (TCE)	c, v	---	---	---	---	---	---	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)	---	<0.5 (ND)	<0.5 (ND)	---	---	---	---	---	---	---
Trichlorofluoromethane	nc, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Trimethylbenzene;1,2,4-	nc, v	---	---	<1 (ND)	<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)	---	---	---	---	<1 (ND)	---	---
Vinyl chloride	c, v	---	---	---	---	---	---	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	---	<0.02 (ND)	<0.02 (ND)	---	---	---	---	---	---	---
Xylenes	nc, v	<3 (ND)	<3 (ND)	<3 (ND)	<1 (ND)	<1 (ND)	<3 (ND)	<3 (ND)	<3 (ND)	<1 (ND)	<1 (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)	---	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	---	<0.02 (ND)	---	1.5	1.4	---	1.5	---	4.1	3.8	---	4.3
Anthracene	nc, v	---	<0.04 (ND)	<0.04 (ND)	---	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	---	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	---	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	---	<0.02 (ND)
Benz[a]anthracene	c, nv	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)
Benzo[a]pyrene	c, nv	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)
Benzo[b]fluoranthene	c, nv	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)
Benzo[k]fluoranthene	c, nv	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)
Chrysene	c, nv	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)
Dibenz[a,h]anthracene	c, nv	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)
Fluoranthene	nc, nv	---	<0.04 (ND)	<0.04 (ND)	---	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	---	<0.02 (ND)	---	0.050	0.046	---	0.046	---	<0.04 (ND)	<0.04 (ND)	---	<0.02 (ND)
Fluorene	nc, v	---	<0.04 (ND)	<0.04 (ND)	---	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	---	<0.02 (ND)	---	0.29	0.3	---	0.35	---	1.3	1.2	---	1.5
Indeno[1,2,3-cd]pyrene	c, nv	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)
Naphthalene	c, v	---	<0.4 (ND)	<0.4 (ND)	---	<0.2 (ND)	---	<0.4 (ND)	<0.4 (ND)	---	<0.2 (ND)	---	<0.4 (ND)	<0.4 (ND)	---	<0.2 (ND)	---	<0.4 (ND)	<0.4 (ND)	---	<0.2 (ND)
1-Methylnaphthalene	nc, v	---	<0.4 (ND)	<0.4 (ND)	---	<0.2 (ND)	---	<0.4 (ND)	<0.4 (ND)	---	<0.2 (ND)	---	<0.4 (ND)	<0.4 (ND)	---	<0.2 (ND)	---	<0.4 (ND)	<0.4 (ND)	---	<0.2 (ND)
2-Methylnaphthalene	nc, v	---	<0.4 (ND)	<0.4 (ND)	---	<0.2 (ND)	---	<0.4 (ND)	<0.4 (ND)	---	<0.2 (ND)	---	<0.4 (ND)	<0.4 (ND)	---	<0.2 (ND)	---	<0.4 (ND)	<0.4 (ND)	---	<0.2 (ND)
Pyrene	nc, nv	---	<0.04 (ND)	<0.04 (ND)	---	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	---	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	---	0.023	---	<0.04 (ND)	<0.04 (ND)	---	<0.02 (ND)
Metals																					
Cadmium	c, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total Lead	NA, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
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)	<100 (ND)	<100 (ND)
DRO	nc, nv	80 x	<50 (ND)	<50 (ND)	120 x *	<50 (ND) *	300 x	<50 (ND)	<50 (ND)	<50 (ND)	<50 (ND)	<50 (ND)	<50 (ND)	<50 (ND)	<50 (ND)	<50 (ND) *	55 x	64	<50 (ND)	67 x *	<50 (ND) *
RRO	nc, nv	410 x	<250 (ND)	<250 (ND)	<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)	<250 (ND)	<250 (ND)	<250 (ND) *

Notes:

--- = not analyzed or not applicable.

ND = not detected at or above the method reporting limit (MRL) or practical quantitation limit (PQL) 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 Levels

(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

* = Silica gel cleanup

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-6			Well-7			Well-8			Well-9			Well-10			Well-11				
Sample ID		Well #6	WELL-6-220126	WELL-6-220421	Well #7	WELL-7-220126	WELL-7-220421	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-11-220725	Well11-221005
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	5/4/2021	1/26/2022	4/21/2022	5/4/2021	1/26/2022	4/21/2022	7/25/2022	10/5/2022
Sampler		ES	ENW	ENW	ES	ENW	ENW	ES	ENW	ENW	ES	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW
Location		North Parking Area - Northwest Corner	North Parking Area - Northwest Corner	North Parking Area - Northwest Corner	North Parking Area - Center	North Parking Area - Center	North Parking Area - Center	North Parking Area - Northeast Corner	North Parking Area - Northeast Corner	North Parking Area - Northeast Corner	North Parking Area - East	North Parking Area - East	North Parking Area - East	Former Dry Cleaner	Former Dry Cleaner	Former Dry Cleaner	Former Dry Cleaner	Former Dry Cleaner	Former Dry Cleaner	Former Dry Cleaner	Former Dry Cleaner
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)	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)	<0.35 (ND)	<0.35 (ND)
Bromodichloromethane	c, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Bromoform	c, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Bromomethane	nc, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Butylbenzene, n-	nc, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Butylbenzene, sec-	nc, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Carbon tetrachloride	c, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Chlorobenzene	nc, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dibromochloromethane	c, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Ethyl Chloride	c, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1 (ND)	---	---	---	---	---
Chloroform	nc, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Chloromethane	nc, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dichlorobenzene;1,2-	nc, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dichlorobenzene;1,3-	nc, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dichlorobenzene;1,4-	c, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1 (ND)	---	---	---	---	---
Dichloroethane;1,1-	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)	<1 (ND)	---	<1 (ND)	<1 (ND)
Dichloroethylene;1,2-,cis	nc, v	---	---	---	---	---	---	---	---	---	---	---	---	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	---	---	<1 (ND)	<1 (ND)
Dichloroethylene;1,2-,trans	nc, v	---	---	---	---	---	---	---	---	---	---	---	---	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	---	---	<1 (ND)	<1 (ND)
Methylene Chloride	c, v	---	---	---	---	---	---	---	---	---	---	---	---	<5 (ND)	<5 (ND)	<5 (ND)	<5 (ND)	---	---	<5 (ND)	5.1 ca jl lc
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)	<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)	<1 (ND)	<0.2 (ND)	<0.2 (ND)	<1 (ND)	<0.2 (ND)	<0.2 (ND)	<0.2 (ND)	<0.2 (ND)
Ethylbenzene	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)
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)	<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)	---	26 jl	39	35	15
Cumene	nc, v	---	---	<1 (ND)	---	---	<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)	---	<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)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)
Trichloro-1,2,2-trifluoroethane;1,1,2-	nc, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Trichloroethane;1,1,1-	nc, v	---	---	---	---	---	---	---	---	---	---	---	---	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	---	---	<1 (ND)	<1 (ND)
Trichloroethane;1,1,2-	nc, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Trichloroethylene (TCE)	c, v	---	---	---	---	---	---	---	---	---	---	---	---	<1 (ND)	<0.5 (ND)	<0.5 (ND)	<1 (ND)	---	---	<0.5 (ND)	<0.5 (ND)
Trichlorofluoromethane	nc, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Trimethylbenzene;1,2,4-	nc, v	---	---	<1 (ND)	---	---	<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)	---	<1 (ND)
Vinyl chloride	c, v	---	---	---	---	---	---	---	---	---	---	---	---	<0.2 (ND)	<0.02 (ND)	<0.02 (ND)	<0.2 (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)	<1 (ND)	<1 (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)	---	<0.04 (ND)	<0.04 (ND)	---	<0.04 (ND)	<0.04 (ND)	---	6.9	5.6	---	1.5
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)	---	<0.02 (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)	<0.02 (ND)	<0.02 (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)	<0.02 (ND)	<0.02 (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)	<0.02 (ND)	<0.02 (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)	<0.02 (ND)	<0.02 (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)	<0.02 (ND)	<0.02 (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)	<0.02 (ND)	<0.02 (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)	---	<0.02 (ND)
Fluorene	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)	---	2.3	2.3	---	0.41
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)	<0.02 (ND)	<0.02 (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)	---	26 jl	14	---	<0.2 (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)	---	**2.8 jl**	**1.8**	---	<0.2 (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)	---	0.83	0.61	---	<0.2 (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)	---	<0.02 (ND)
Metals																					
Cadmium	c, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total Lead	NA, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
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)	<100 (ND)	<100 (ND)
DRO	nc, nv	<50 (ND)	<50 (ND)	<50 (ND)	<50 (ND)	<50 (ND)	<50 (ND)	53 x	<50 (ND)	<50 (ND)	110 x	<50 (ND)	<50 (ND)	55 x	<50 (ND)	<50 (ND)	150 x	170	130 x	150 x *	<50 (ND) *
RRO	nc, nv	<250 (ND)	<250 (ND)	<250 (ND)	300 x	<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) *

Notes:

--- = not analyzed or not applicable.

ND = not detected at or above the method reporting limit (MRL) or practical quantitation limit (PQL) 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 Levels

(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

* = Silica gel cleanup

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 #12					Well-13			EMW01		MW-8		QA/QC					
Sample ID		Well #12	WELL-12-220126	WELL-12-220421	Well-12-220725	Well12-22105	Well #13	WELL-13-220126	WELL-13-220421	EMW01-220725	EMW01-221005	MW-8-220725	MW8-221005	WELL-FD-220127	WELL-FD-220127	Well-FD-220725	FD-221005	Trip Blank	Trip Blank
Date Sampled		6/2/2021	1/26/2022	4/21/2022	7/25/2022	10/5/2022	6/2/2021	1/26/2022	4/21/2022	7/25/2022	10/5/2022	7/25/2022	10/5/2022	1/26/2022	4/21/2022	7/25/2022	10/5/2022	7/25/2022	10/5/2022
Sampler		ES	ENW	ENW	ENW	ENW	ES	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW
Location		North Property Boundary	North Property Boundary	North Property Boundary	North Property Boundary	North Property Boundary	North Property Boundary	Proposed Play Area	Proposed Play Area	South of Loading Dock	South of Loading Dock	SW Corner of Site next to Well-2	SW Corner of Site next to Well-2	Field duplicate of Well #10	Field duplicate of Well #4	Field duplicate of EMW01		Trip Blank	Trip Blank
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)	<0.35 (ND)	<0.35 (ND)	<1 (ND)	<0.35 (ND)	<0.35 (ND)	<0.35 (ND)	<0.35 (ND)	<0.35 (ND)	<0.35 (ND)	<0.35 (ND)	<0.35 (ND)	<0.35 (ND)	<0.35 (ND)	<0.35 (ND)	<0.35 (ND)
Bromodichloromethane	c, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Bromoform	c, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Bromomethane	nc, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Butylbenzene, n-	nc, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Butylbenzene, sec-	nc, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Carbon tetrachloride	c, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Chlorobenzene	nc, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dibromochloromethane	c, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Ethyl Chloride	c, v	---	---	---	---	---	---	---	---	---	---	---	---	---	<1 (ND)	---	---	---	---
Chloroform	nc, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Chloromethane	nc, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dichlorobenzene;1,2-	nc, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dichlorobenzene;1,3-	nc, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dichlorobenzene;1,4-	c, v	---	---	---	---	---	---	---	---	---	---	---	---	---	<1 (ND)	---	---	---	---
Dichloroethane;1,1-	c, v	<1 (ND)	<1 (ND)	<1 (ND)	<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)	<1 (ND)	---	---	---	---	---	---	---	<1 (ND)	<1 (ND)	---	---	---	---
Dichloroethylene;1,2-,trans	nc, v	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	---	---	---	---	---	---	---	<1 (ND)	<1 (ND)	---	---	---	---
Methylene Chloride	c, v	---	---	---	<5 ND	7.5 ca jl lc	---	---	---	---	---	---	---	<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)	<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)	<0.2 (ND)	<0.2 (ND)	<0.2 (ND)	<0.2 (ND)
Ethylbenzene	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)
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)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)
Naphthalene	nc, v	---	<0.4 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	---	<0.4 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<0.4 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)
Cumene	nc, v	---	---	<1 (ND)	---	<1 (ND)	---	---	<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)	---	<1 (ND)	---	<1 (ND)
Tetrachloroethylene (PCE)	c, v	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	---	---	---	---	---	---	---	<1 (ND)	<1 (ND)	---	---	---	
Toluene	nc, v	2.0	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	9.4	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)
Trichloro-1,2,2-trifluoroethane;1,1,2-	nc, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Trichloroethane;1,1,1-	nc, v	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	---	---	---	---	---	---	---	<1 (ND)	<1 (ND)	---	---	---	---
Trichloroethane;1,1,2-	nc, v	---	---	---	---	---	---	---	---	---	---	---	---	---		---	---	---	---
Trichloroethylene (TCE)	c, v	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)	---	---	---	---	---	---	---	<0.5 (ND)	<0.5 (ND)	---	---	---	---
Trichlorofluoromethane	nc, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Trimethylbenzene;1,2,4-	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)
Trimethylbenzene;1,3,5-	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)
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)	<1 (ND)	<1 (ND)	<3 (ND)	<3 (ND)	<3 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<3 (ND)	<3 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)
Polyaromatic Hydrocarbons (Carcinogenic)																			
Acenaphthene	nc, v	---	<0.04 (ND)	<0.04 (ND)	---	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	---	0.24	---	<0.02 (ND)	<0.04 (ND)	1.2	---	0.24	---	---
Anthracene	nc, v	---	<0.04 (ND)	<0.04 (ND)	---	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	---	<0.02 (ND)	---	<0.02 (ND)	<0.04 (ND)	<0.04 (ND)	---	<0.02 (ND)	---	---
Benz[a]anthracene	c, nv	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	<0.02 ND	<0.02 (ND)	<0.02 ND	<0.02 (ND)	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	---
Benzo[a]pyrene	c, nv	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	<0.02 ND	<0.02 (ND)	<0.02 ND	<0.02 (ND)	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	---
Benzo[b]fluoranthene	c, nv	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	<0.02 ND	<0.02 (ND)	<0.02 ND	<0.02 (ND)	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	---
Benzo[k]fluoranthene	c, nv	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	<0.02 ND	<0.02 (ND)	<0.02 ND	<0.02 (ND)	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	---
Chrysene	c, nv	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	<0.02 ND	<0.02 (ND)	<0.02 ND	<0.02 (ND)	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	---
Dibenz[a,h]anthracene	c, nv	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	<0.02 ND	<0.02 (ND)	<0.02 ND	<0.02 (ND)	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	---
Fluoranthene	nc, nv	---	<0.04 (ND)	<0.04 (ND)	---	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	---	<0.02 (ND)	---	<0.02 (ND)	<0.04 (ND)	0.052	---	<0.02 (ND)	---	---
Fluorene	nc, v	---	<0.04 (ND)	<0.04 (ND)	---	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	---	0.042	---	<0.02 (ND)	<0.04 (ND)	0.28	---	0.042	---	---
Indeno[1,2,3-cd]pyrene	c, nv	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	<0.02 ND	<0.02 (ND)	<0.02 ND	<0.02 (ND)	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	---
Naphthalene	c, v	---	<0.4 (ND)	<0.4 (ND)	---	<0.2 (ND)	---	<0.4 (ND)	<0.4 (ND)	---	<0.2 (ND)	---	<0.2 (ND)	<0.4 (ND)	<0.4 (ND)	---	<0.2 (ND)	---	---
1-Methylnaphthalene	nc, v	---	<0.4 (ND)	<0.4 (ND)	---	<0.2 (ND)	---	<0.4 (ND)	<0.4 (ND)	---	<0.2 (ND)	---	<0.2 (ND)	<0.4 (ND)	<0.4 (ND)	---	<0.2 (ND)	---	---
2-Methylnaphthalene	nc, v	---	<0.4 (ND)	<0.4 (ND)	---	<0.2 (ND)	---	<0.4 (ND)	<0.4 (ND)	---	<0.2 (ND)	---	<0.2 (ND)	<0.4 (ND)	<0.4 (ND)	---	<0.2 (ND)	---	---
Pyrene	nc, nv	---	<0.04 (ND)	<0.04 (ND)	---	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	---	<0.02 (ND)	---	<0.02 (ND)	<0.04 (ND)	<0.04 (ND)	---	<0.02 (ND)	---	---
Metals																			
Cadmium	c, nv	---	---	<1 (ND)	<1 (ND)	<1 (ND)	---	---	---	---	---	---	---	---	---	---	---	---	---
Total Lead	NA, nv	---	---	<1 (ND)	<1 (ND)	<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)	---	---
DRO	nc, nv	<50 (ND)	<50 (ND)	<50 (ND)	<50 (ND)	<50 (ND)	<50 (ND)	<50 (ND)	<50 (ND)	<50 (ND)	<50 (ND) *	130 x *	<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)	---	---

Notes:

--- = not analyzed or not applicable.

ND = not detected at or above the method reporting limit (MRL) or practical quantitation limit (PQL) 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 Levels

(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

* = Silica gel cleanup

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 / Sample ID / Date Sampled / Sampler / Location	Note	Maximum Ground Water Concentration (QA/QC not included)	MTCA Method A Cleanup Levels for Ground Water (Unrestricted Land Use)	MTCA Method B Cleanup Levels for Ground Water (lowest)	MTCA Site-Specific Calculated Ground Water Cleanup Level	EPA Region IX Regional Screening Levels (Tapwater) Last Updated May 2012	Background Concentrations (metals)[2]	Constituent of Potential Concern (COPC)?[3]
Constituent of Interest		µg/L (ppb)	µg/L (ppb)	µg/L (ppb)	µg/L (ppb)	µg/L (ppb)	µg/L (ppb)	Y/N
Volatile Organic Constituents (VOCs)								
Benzene	c, v	<1 (ND)	5	0.8	---	0.39	NE	(Y)
Bromodichloromethane	c, v	<0 (ND)		0.71	---	0.12	NE	N
Bromoform	c, nv	<0 (ND)		5.5	---	8.5	NE	N
Bromomethane	nc, v	<0 (ND)		11	---	8.7	NE	N
Butylbenzene, n-	nc, v	<0 (ND)		#N/A	---		NE	#N/A
Butylbenzene, sec-	nc, v	<0 (ND)		#N/A	---	200	NE	#N/A
Carbon tetrachloride	c, v	<0 (ND)		0.63	---	0.44	NE	N
Chlorobenzene	nc, v	<0 (ND)		160	---	91	NE	N
Dibromochloromethane	c, nv	<0 (ND)		0.52	---	0.15	NE	N
Ethyl Chloride	c, v	<1 (ND)	NE	NE	---	21000	NE	---
Chloroform	nc, v	<0 (ND)		1.4	---	0.19	NE	N
Chloromethane	nc, v	<0 (ND)			---	190	NE	N
Dichlorobenzene;1,2-	nc, v	<0 (ND)		720	---	370	NE	N
Dichlorobenzene;1,3-	nc, v	<0 (ND)			---	NE	NE	N
Dichlorobenzene;1,4-	c, v	<1 (ND)	NE	8.1	---	0.43	NE	N
Dichloroethane;1,1-	c, v	<1 (ND)		7.7	---	2.4	NE	N
Dichloroethylene;1,1-	nc, v	<1 (ND)	NE	400	---	340	NE	N
Dichloroethylene;1,2-,cis	nc, v	<1 (ND)	NE	16	---	73	NE	N
Dichloroethylene;1,2-,trans	nc, v	<1 (ND)	NE	160	---	110	NE	N
Methylene Chloride	c, v	<7.5 (ND)	5	5.8	---	4.8	NE	Y
Ethylene dibromide (EDB)	c, v	<1 (ND)	0.01	0.022	---	6.50E-03	NE	(Y)
Dichloroethane;1,2- (EDC)	c, v	<1 (ND)	5	0.48	---	0.15	NE	(Y)
Ethylbenzene	c, v	<1 (ND)	700	800	---	1.3	NE	N
Methyl tert-butyl ether (MTBE)	c, v	<1 (ND)	20	24	---	12	NE	N
Naphthalene	nc, v	39	160	160	---	0.14	NE	N
Cumene	nc, v	<1 (ND)	NE	800	---	680	NE	N
Propylbenzene, n-	nc, v	<1 (ND)	NE	800	---	1300	NE	N
Tetrachloroethylene (PCE)	c, v	<1 (ND)	5	21	---	0.11	NE	N
Toluene	nc, v	9.4	1000	640	---	860	NE	N
Trichloro-1,2,2-trifluoroethane;1,1,2-	nc, v	<0 (ND)		240000	---	59000	NE	N
Trichloroethane;1,1,1-	nc, v	<1 (ND)	200	16000	---	9100	NE	N
Trichloroethane;1,1,2-	nc, v	<0 (ND)		0.77	---	0.24	NE	N
Trichloroethylene (TCE)	c, v	<1 (ND)	5	0.54	---	2	NE	(Y)
Trichlorofluoromethane	nc, v	<0 (ND)		2400	---	1300	NE	N
Trimethylbenzene;1,2,4-	nc, v	<1 (ND)	NE	80	---	0.15	NE	N
Trimethylbenzene;1,3,5-	nc, v	<1 (ND)	NE	80	---	370	NE	N
Vinyl chloride	c, v	<0.2 (ND)	0.2	0.029	---	0.016	NE	(Y)
Xylenes	nc, v	<3 (ND)	1000	1600	---	190	NE	N
Polyaromatic Hydrocarbons (Carcinogenic)								
Acenaphthene	nc, v	6.9	NE	480		400	NE	Y
Anthracene	nc, v	<0.04 (ND)	NE	2400		1300	NE	Y
Benz[a]anthracene	c, nv	<0.04 (ND)	**	**	---	0.029	NE	(Y)
Benzo[a]pyrene	c, nv	<0.04 (ND)	0.1 (**)	0.023 (**)	---	0.0029	NE	(Y)
Benzo[b]fluoranthene	c, nv	<0.04 (ND)	**	**	---	0.029	NE	(Y)
Benzo[k]fluoranthene	c, nv	<0.04 (ND)	**	**	---	0.29	NE	(Y)
Chrysene	c, nv	<0.04 (ND)	**	**	---	2.9	NE	(Y)
Dibenz[a,h]anthracene	c, nv	<0.04 (ND)	**	**	---	0.0029	NE	(Y)
Fluoranthene	nc, nv	<0.05 (ND)	NE	640	---	630	NE	N
Fluorene	nc, v	2.3	NE	320	---	220	NE	N
Indeno[1,2,3-cd]pyrene	c, nv	<0.04 (ND)	**	**	---	0.029	NE	(Y)
Naphthalene	c, v	26 jl	160	160	---	0.14		N
1-Methylnaphthalene	nc, v	**2.8 jl**	NE	1.5	---	0.97	NE	**Y**
2-Methylnaphthalene	nc, v	0.83	NE	32	---	27		N
Pyrene	nc, nv	<0.04 (ND)	NE	240	---	87	NE	N
Metals								
Cadmium	c, nv	<1 (ND)	5	8	---	6.9	<1	#REF!
Total Lead	NA, nv	<1 (ND)	15	15	---	NE	NE	N
Total Petroleum Hydrocarbons								
GRO	nc, v	<100 (ND)	800	NE		NE	NE	N
DRO	nc, nv	300 x	500	NE	500	NE	NE	N
RRO	nc, nv	**510 x**	500	NE		NE	NE	**Y**

Notes:

— = not analyzed or not applicable.

ND = not detected at or above the method reporting limit (MRL) or practical quantitation limit (PQL) 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 Levels

(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

* = Silica gel cleanup

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-2					Well-3					Well-4					Well-5				
Sample ID		Well #2	WELL-2-220126	WELL-2-220421	Well-2-220725	Well2-221005	Well #3	WELL-3-220126	WELL-3-220421	Well-3-220725	Well3-221005	Well #4	WELL-4-220126	WELL-4-220421	Well-4-220725	Well4-221005	Well #5	WELL-5-220126	WELL-5-220421	Well-5-220725	Well5-221005
Date Sampled		5/4/2021	1/26/2022	4/21/2022	7/25/2022	10/5/2022	5/4/2021	1/26/2022	4/21/2022	7/25/2022	10/5/2022	5/4/2021	1/26/2022	4/21/2022	7/25/2022	10/5/2022	5/4/2021	1/26/2022	4/21/2022	7/25/2022	10/5/2022
Sampler		ES	ENW	ENW	ENW	ENW	ES	ENW	ENW	ENW	ENW	ES	ENW	ENW	ENW	ENW	ES	ENW	ENW	ENW	ENW
Location		Southwest Corner of Site	Southwest Corner of Site	Southwest Corner of Site	Southwest Corner of Site	Southwest Corner of Site	West of Building, Next to Alley	West of Building, Next to Alley	West of Building, Next to Alley	West of Building, Next to Alley	West of Building, Next to Alley	South of Proposed Play Area	South of Proposed Play Area	South of Proposed Play Area	South of Proposed Play Area	South of Proposed Play Area	Proposed Play Area	Proposed Play Area	Proposed Play Area	Proposed Play Area	Proposed Play Area
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)	µg/L (ppb)	µg/L (ppb)
Volatile Organic Constituents (VOCs)																					
Benzene	c, v	<1 (ND)	<0.35 (ND)	<0.35 (ND)	<0.35 (ND)	<0.35 (ND)	<1 (ND)	<0.35 (ND)	<0.35 (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)	---	---	---	---	---	---	---
Dichloroethane;1,1-	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)	---	<1 (ND)	<1 (ND)	---	---	---	---	---	---	---
Dichloroethylene;1,2-,trans	nc, v	---	---	---	---	---	---	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	---	<1 (ND)	<1 (ND)	---	---	---	---	---	---	---
Methylene Chloride	c, v	---	---	---	---	---	---	<5 (ND)	<5 (ND)	<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 (ND)	<1 (ND)	1	<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)	<1 (ND)	<1 (ND)	---	<0.4 (ND)	<1 (ND)	<1 (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)	---	<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)	---	---
Trichloroethane;1,1,1-	nc, v	---	---	---	---	---	---	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	---	<1 (ND)	<1 (ND)	---	---	---	---	---	---	---
Trichloroethylene (TCE)	c, v	---	---	---	---	---	---	<0.5 (ND)	<0.5 (ND)	<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)	---	---	---	---	<1 (ND)	---	---
Trimethylbenzene;1,3,5-	nc, v	---	---	<1 (ND)	<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)	---	<0.02 (ND)	<0.02 (ND)	---	---	---	---	---	---	---
Xylenes	nc, v	<3 (ND)	<3 (ND)	<3 (ND)	<1 (ND)	<1 (ND)	<3 (ND)	<3 (ND)	<3 (ND)	<1 (ND)	<1 (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)	---	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	---	<0.02 (ND)	---	1.5	1.4	---	1.5	---	4.1	3.8	---	4.3
Anthracene	nc, v	---	<0.04 (ND)	<0.04 (ND)	---	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	---	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	---	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	---	<0.02 (ND)
Benz[a]anthracene	c, nv	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)
Benzo[a]pyrene	c, nv	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)
Benzo[b]fluoranthene	c, nv	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)
Benzo[k]fluoranthene	c, nv	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)
Chrysene	c, nv	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)
Dibenz[a,h]anthracene	c, nv	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)
Fluoranthene	nc, nv	---	<0.04 (ND)	<0.04 (ND)	---	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	---	<0.02 (ND)	---	0.050	0.046	---	0.046	---	<0.04 (ND)	<0.04 (ND)	---	<0.02 (ND)
Fluorene	nc, v	---	<0.04 (ND)	<0.04 (ND)	---	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	---	<0.02 (ND)	---	0.29	0.3	---	0.35	---	1.3	1.2	---	1.5
Indeno[1,2,3-cd]pyrene	c, nv	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)
Naphthalene	c, v	---	<0.4 (ND)	<0.4 (ND)	---	<0.2 (ND)	---	<0.4 (ND)	<0.4 (ND)	---	<0.2 (ND)	---	<0.4 (ND)	<0.4 (ND)	---	<0.2 (ND)	---	<0.4 (ND)	<0.4 (ND)	---	<0.2 (ND)
1-Methylnaphthalene	nc, v	---	<0.4 (ND)	<0.4 (ND)	---	<0.2 (ND)	---	<0.4 (ND)	<0.4 (ND)	---	<0.2 (ND)	---	<0.4 (ND)	<0.4 (ND)	---	<0.2 (ND)	---	<0.4 (ND)	<0.4 (ND)	---	<0.2 (ND)
2-Methylnaphthalene	nc, v	---	<0.4 (ND)	<0.4 (ND)	---	<0.2 (ND)	---	<0.4 (ND)	<0.4 (ND)	---	<0.2 (ND)	---	<0.4 (ND)	<0.4 (ND)	---	<0.2 (ND)	---	<0.4 (ND)	<0.4 (ND)	---	<0.2 (ND)
Pyrene	nc, nv	---	<0.04 (ND)	<0.04 (ND)	---	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	---	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	---	0.023	---	<0.04 (ND)	<0.04 (ND)	---	<0.02 (ND)
Metals																					
Cadmium	c, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total Lead	NA, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
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)	<100 (ND)	<100 (ND)
DRO	nc, nv	80 x	<50 (ND)	<50 (ND)	120 x *	<50 (ND) *	300 x	<50 (ND)	<50 (ND)	<50 (ND)	<50 (ND)	<50 (ND)	<50 (ND)	<50 (ND)	<50 (ND)	<50 (ND) *	55 x	64	<50 (ND)	67 x *	<50 (ND) *
RRO	nc, nv	410 x	<250 (ND)	<250 (ND)	<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)	<250 (ND)	<250 (ND)	<250 (ND) *

Notes:

--- = not analyzed or not applicable.

ND = not detected at or above the method reporting limit (MRL) or practical quantitation limit (PQL) 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 Levels

(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

* = Silica gel cleanup

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-6			Well-7			Well-8			Well-9			Well-10			Well-11				
Sample ID		Well #6	WELL-6-220126	WELL-6-220421	Well #7	WELL-7-220126	WELL-7-220421	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-11-220725	Well11-221005
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	5/4/2021	1/26/2022	4/21/2022	5/4/2021	1/26/2022	4/21/2022	7/25/2022	10/5/2022
Sampler		ES	ENW	ENW	ES	ENW	ENW	ES	ENW	ENW	ES	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW
Location		North Parking Area - Northwest Corner	North Parking Area - Northwest Corner	North Parking Area - Northwest Corner	North Parking Area - Center	North Parking Area - Center	North Parking Area - Center	North Parking Area - Northeast Corner	North Parking Area - Northeast Corner	North Parking Area - Northeast Corner	North Parking Area - East	North Parking Area - East	North Parking Area - East	Former Dry Cleaner	Former Dry Cleaner	Former Dry Cleaner	Former Dry Cleaner	Former Dry Cleaner	Former Dry Cleaner	Former Dry Cleaner	Former Dry Cleaner
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)	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)	<0.35 (ND)	<0.35 (ND)
Ethyl Chloride	c, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1 (ND)	---	---	---	---	---
Dichlorobenzene;1,4-	c, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1 (ND)	---	---	---	---	---
Dichloroethane;1,1-	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)	<1 (ND)	---	<1 (ND)	<1 (ND)
Dichloroethylene;1,2-,cis	nc, v	---	---	---	---	---	---	---	---	---	---	---	---	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	---	---	<1 (ND)	<1 (ND)
Dichloroethylene;1,2-,trans	nc, v	---	---	---	---	---	---	---	---	---	---	---	---	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	---	---	<1 (ND)	<1 (ND)
Methylene Chloride	c, v	---	---	---	---	---	---	---	---	---	---	---	---	<5 (ND)	<5 (ND)	<5 (ND)	<5 (ND)	---	---	<5 (ND)	5.1 ca jl lc
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)	<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)	<1 (ND)	<0.2 (ND)	<0.2 (ND)	<1 (ND)	<0.2 (ND)	<0.2 (ND)	<0.2 (ND)	<0.2 (ND)
Ethylbenzene	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)
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)	<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)	---	26 jl	39	35	15
Cumene	nc, v	---	---	<1 (ND)	---	---	<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)	---	<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)	<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)	---	---	<1 (ND)	<1 (ND)
Trichloroethylene (TCE)	c, v	---	---	---	---	---	---	---	---	---	---	---	---	<1 (ND)	<0.5 (ND)	<0.5 (ND)	<1 (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)	---	<1 (ND)
Trimethylbenzene;1,3,5-	nc, v	---	---	<1 (ND)	---	---	<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)	---	---	<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)	<1 (ND)	<1 (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)	---	<0.04 (ND)	<0.04 (ND)	---	<0.04 (ND)	<0.04 (ND)	---	6.9	5.6	---	1.5
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)	<0.02 (ND)	<0.02 (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)	<0.02 (ND)	<0.02 (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)	<0.02 (ND)	<0.02 (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)	<0.02 (ND)	<0.02 (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)	<0.02 (ND)	<0.02 (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)	<0.02 (ND)	<0.02 (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)	<0.02 (ND)	<0.02 (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)	---	<0.02 (ND)
Fluorene	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)	---	2.3	2.3	---	0.41
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)	<0.02 (ND)	<0.02 (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)	---	26 jl	14	---	<0.2 (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)	---	**2.8 jl**	**1.8**	---	<0.2 (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)	---	0.83	0.61	---	<0.2 (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)	---	<0.02 (ND)
Metals																					
Cadmium	c, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total Lead	NA, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
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)	<100 (ND)	<100 (ND)
DRO	nc, nv	<50 (ND)	<50 (ND)	<50 (ND)	<50 (ND)	<50 (ND)	<50 (ND)	53 x	<50 (ND)	<50 (ND)	110 x	<50 (ND)	<50 (ND)	55 x	<50 (ND)	<50 (ND)	150 x	170	130 x	150 x *	<50 (ND) *
RRO	nc, nv	<250 (ND)	<250 (ND)	<250 (ND)	300 x	<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) *

Notes:

--- = not analyzed or not applicable.

ND = not detected at or above the method reporting limit (MRL) or practical quantitation limit (PQL) 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 Levels

(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

* = Silica gel cleanup

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 #12					Well-13			EMW01		MW-8		QA/QC					
Sample ID		Well #12	WELL-12-220126	WELL-12-220421	Well-12-220725	Well12-22105	Well #13	WELL-13-220126	WELL-13-220421	EMW01-220725	EMW01-221005	MW-8-220725	MW8-221005	WELL-FD-220127	WELL-FD-220127	Well-FD-220725	FD-221005	Trip Blank	Trip Blank
Date Sampled		6/2/2021	1/26/2022	4/21/2022	7/25/2022	10/5/2022	6/2/2021	1/26/2022	4/21/2022	7/25/2022	10/5/2022	7/25/2022	10/5/2022	1/26/2022	4/21/2022	7/25/2022	10/5/2022	7/25/2022	10/5/2022
Sampler		ES	ENW	ENW	ENW	ENW	ES	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW
Location		North Property Boundary	North Property Boundary	North Property Boundary	North Property Boundary	North Property Boundary	North Property Boundary	Proposed Play Area	Proposed Play Area	South of Loading Dock	South of Loading Dock	SW Corner of Site next to Well-2	SW Corner of Site next to Well-2	Field duplicate of Well #10	Field duplicate of Well #4	Field duplicate of EMW01		Trip Blank	Trip Blank
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)	<0.35 (ND)	<0.35 (ND)	<1 (ND)	<0.35 (ND)	<0.35 (ND)	<0.35 (ND)	<0.35 (ND)	<0.35 (ND)	<0.35 (ND)	<0.35 (ND)	<0.35 (ND)	<0.35 (ND)	<0.35 (ND)	<0.35 (ND)	<0.35 (ND)
Ethyl Chloride	c, v	---	---	---	---	---	---	---	---	---	---	---	---	---	<1 (ND)	---	---	---	---
Dichlorobenzene;1,4-	c, v	---	---	---	---	---	---	---	---	---	---	---	---	---	<1 (ND)	---	---	---	---
Dichloroethane;1,1-	c, v	<1 (ND)	<1 (ND)	<1 (ND)	<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)	<1 (ND)	---	---	---	---	---	---	---	<1 (ND)	<1 (ND)	---	---	---	---
Dichloroethylene;1,2-,trans	nc, v	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	---	---	---	---	---	---	---	<1 (ND)	<1 (ND)	---	---	---	---
Methylene Chloride	c, v	---	---	---	<5 ND	7.5 ca jl lc	---	---	---	---	---	---	---	<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)	<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)	<0.2 (ND)	<0.2 (ND)	<0.2 (ND)	<0.2 (ND)
Ethylbenzene	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)
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)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)
Naphthalene	nc, v	---	<0.4 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	---	<0.4 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<0.4 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)
Cumene	nc, v	---	---	<1 (ND)	---	<1 (ND)	---	---	<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)	---	<1 (ND)	---	<1 (ND)
Tetrachloroethylene (PCE)	c, v	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	---	---	---	---	---	---	---	<1 (ND)	<1 (ND)	---	---	---	
Toluene	nc, v	2.0	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	9.4	<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)	<1 (ND)	---	---	---	---	---	---	---	<1 (ND)	<1 (ND)	---	---	---	---
Trichloroethylene (TCE)	c, v	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)	<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)	<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)	<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)	<1 (ND)	<1 (ND)	<3 (ND)	<3 (ND)	<3 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<3 (ND)	<3 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)
Polyaromatic Hydrocarbons (Carcinogenic)																			
Acenaphthene	nc, v	---	<0.04 (ND)	<0.04 (ND)	---	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	---	0.24	---	<0.02 (ND)	<0.04 (ND)	1.2	---	0.24	---	---
Anthracene	nc, v	---	<0.04 (ND)	<0.04 (ND)	---	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	---	<0.02 (ND)	---	<0.02 (ND)	<0.04 (ND)	<0.04 (ND)	---	<0.02 (ND)	---	---
Benz[a]anthracene	c, nv	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	<0.02 ND	<0.02 (ND)	<0.02 ND	<0.02 (ND)	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	---
Benzo[a]pyrene	c, nv	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	<0.02 ND	<0.02 (ND)	<0.02 ND	<0.02 (ND)	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	---
Benzo[b]fluoranthene	c, nv	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	<0.02 ND	<0.02 (ND)	<0.02 ND	<0.02 (ND)	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	---
Benzo[k]fluoranthene	c, nv	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	<0.02 ND	<0.02 (ND)	<0.02 ND	<0.02 (ND)	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	---
Chrysene	c, nv	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	<0.02 ND	<0.02 (ND)	<0.02 ND	<0.02 (ND)	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	---
Dibenz[a,h]anthracene	c, nv	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	<0.02 ND	<0.02 (ND)	<0.02 ND	<0.02 (ND)	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	---
Fluoranthene	nc, nv	---	<0.04 (ND)	<0.04 (ND)	---	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	---	<0.02 (ND)	---	<0.02 (ND)	<0.04 (ND)	0.052	---	<0.02 (ND)	---	---
Fluorene	nc, v	---	<0.04 (ND)	<0.04 (ND)	---	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	---	0.042	---	<0.02 (ND)	<0.04 (ND)	0.28	---	0.042	---	---
Indeno[1,2,3-cd]pyrene	c, nv	---	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	<0.02 ND	<0.02 (ND)	<0.02 ND	<0.02 (ND)	<0.04 (ND)	<0.04 (ND)	<0.02 (ND)	<0.02 (ND)	---	---
Naphthalene	c, v	---	<0.4 (ND)	<0.4 (ND)	---	<0.2 (ND)	---	<0.4 (ND)	<0.4 (ND)	---	<0.2 (ND)	---	<0.2 (ND)	<0.4 (ND)	<0.4 (ND)	---	<0.2 (ND)	---	---
1-Methylnaphthalene	nc, v	---	<0.4 (ND)	<0.4 (ND)	---	<0.2 (ND)	---	<0.4 (ND)	<0.4 (ND)	---	<0.2 (ND)	---	<0.2 (ND)	<0.4 (ND)	<0.4 (ND)	---	<0.2 (ND)	---	---
2-Methylnaphthalene	nc, v	---	<0.4 (ND)	<0.4 (ND)	---	<0.2 (ND)	---	<0.4 (ND)	<0.4 (ND)	---	<0.2 (ND)	---	<0.2 (ND)	<0.4 (ND)	<0.4 (ND)	---	<0.2 (ND)	---	---
Pyrene	nc, nv	---	<0.04 (ND)	<0.04 (ND)	---	<0.02 (ND)	---	<0.04 (ND)	<0.04 (ND)	---	<0.02 (ND)	---	<0.02 (ND)	<0.04 (ND)	<0.04 (ND)	---	<0.02 (ND)	---	---
Metals																			
Cadmium	c, nv	---	---	<1 (ND)	<1 (ND)	<1 (ND)	---	---	---	---	---	---	---	---	---	---	---	---	---
Total Lead	NA, nv	---	---	<1 (ND)	<1 (ND)	<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)	---	---
DRO	nc, nv	<50 (ND)	<50 (ND)	<50 (ND)	<50 (ND)	<50 (ND)	<50 (ND)	<50 (ND)	<50 (ND)	<50 (ND)	<50 (ND) *	130 x *	<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)	---	---

Notes:

--- = not analyzed or not applicable.

ND = not detected at or above the method reporting limit (MRL) or practical quantitation limit (PQL) 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 Levels

(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

* = Silica gel cleanup

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 / Sample ID / Date Sampled / Sampler / Location	Note	Maximum Ground Water Concentration, Last Four Monitoring Events (QA/QC not included)	MTCA Method A Cleanup Levels for Ground Water (Unrestricted Land Use)	MTCA Method B Cleanup Levels for Ground Water (lowest)	MTCA Site-Specific Calculated Ground Water Cleanup Level	EPA Region IX Regional Screening Levels (Tapwater) Last Updated May 2012	Background Concentrations (metals)[2]	Constituent of Potential Concern (COPC)?[3]
Constituent of Interest		µg/L (ppb)	µg/L (ppb)	µg/L (ppb)	µg/L (ppb)	µg/L (ppb)	µg/L (ppb)	Y/N
Volatile Organic Constituents (VOCs)								
Benzene	c, v	<1 (ND)	5	0.8	---	0.39	NE	(Y)
Ethyl Chloride	c, v	<1 (ND)	NE	NE	---	21000	NE	---
Dichlorobenzene;1,4-	c, v	<1 (ND)	NE	8.1	---	0.43	NE	N
Dichloroethane;1,1-	c, v	<1 (ND)		7.7	---	2.4	NE	N
Dichloroethylene;1,1-	nc, v	<1 (ND)	NE	400	---	340	NE	N
Dichloroethylene;1,2-,cis	nc, v	<1 (ND)	NE	16	---	73	NE	N
Dichloroethylene;1,2-,trans	nc, v	<1 (ND)	NE	160	---	110	NE	N
Methylene Chloride	c, v	<7.5 (ND)	5	5.8	---	4.8	NE	Y
Ethylene dibromide (EDB)	c, v	<1 (ND)	0.01	0.022	---	6.50E-03	NE	(Y)
Dichloroethane;1,2- (EDC)	c, v	<1 (ND)	5	0.48	---	0.15	NE	(Y)
Ethylbenzene	c, v	<1 (ND)	700	800	---	1.3	NE	N
Methyl tert-butyl ether (MTBE)	c, v	<1 (ND)	20	24	---	12	NE	N
Naphthalene	nc, v	39	160	160	---	0.14	NE	N
Cumene	nc, v	<1 (ND)	NE	800	---	680	NE	N
Propylbenzene, n-	nc, v	<1 (ND)	NE	800	---	1300	NE	N
Tetrachloroethylene (PCE)	c, v	<1 (ND)	5	21	---	0.11	NE	N
Toluene	nc, v	9.4	1000	640	---	860	NE	N
Trichloroethane;1,1,1-	nc, v	<1 (ND)	200	16000	---	9100	NE	N
Trichloroethylene (TCE)	c, v	<1 (ND)	5	0.54	---	2	NE	(Y)
Trimethylbenzene;1,2,4-	nc, v	<1 (ND)	NE	80	---	0.15	NE	N
Trimethylbenzene;1,3,5-	nc, v	<1 (ND)	NE	80	---	370	NE	N
Vinyl chloride	c, v	<0.2 (ND)	0.2	0.029	---	0.016	NE	(Y)
Xylenes	nc, v	<3 (ND)	1000	1600	---	190	NE	N
Polyaromatic Hydrocarbons (Carcinogenic)								
Acenaphthene	nc, v	6.9	NE	480	---	400	NE	N
Anthracene	nc, v	<0.04 (ND)	NE	2400	---	1300	NE	N
Benz[a]anthracene	c, nv	<0.04 (ND)	**	**	---	0.029	NE	(Y)
Benzo[a]pyrene	c, nv	<0.04 (ND)	0.1 (**)	0.023 (**)	---	0.0029	NE	(Y)
Benzo[b]fluoranthene	c, nv	<0.04 (ND)	**	**	---	0.029	NE	(Y)
Benzo[k]fluoranthene	c, nv	<0.04 (ND)	**	**	---	0.29	NE	(Y)
Chrysene	c, nv	<0.04 (ND)	**	**	---	2.9	NE	(Y)
Dibenz[a,h]anthracene	c, nv	<0.04 (ND)	**	**	---	0.0029	NE	(Y)
Fluoranthene	nc, nv	<0.05 (ND)	NE	640	---	630	NE	N
Fluorene	nc, v	2.3	NE	320	---	220	NE	N
Indeno[1,2,3-cd]pyrene	c, nv	<0.04 (ND)	**	**	---	0.029	NE	(Y)
Naphthalene	c, v	26 jl	160	160	---	0.14		N
1-Methylnaphthalene	nc, v	**2.8 jl**	NE	1.5	---	0.97	NE	Y
2-Methylnaphthalene	nc, v	0.83	NE	32	---	27		N
Pyrene	nc, nv	<0.04 (ND)	NE	240	---	87	NE	N
Metals								
Cadmium	c, nv	<1 (ND)	5	8	---	6.9	1	N
Total Lead	NA, nv	<1 (ND)	15	15	---	NE	NE	N
Total Petroleum Hydrocarbons								
GRO	nc, v	<100 (ND)	800	NE	500	NE	NE	N
DRO	nc, nv	170 x	500	NE		NE	NE	N
RRO	nc, nv	300 x	500	NE		NE	NE	N

Notes:

— = not analyzed or not applicable.

ND = not detected at or above the method reporting limit (MRL) or practical quantitation limit (PQL) 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 Levels

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

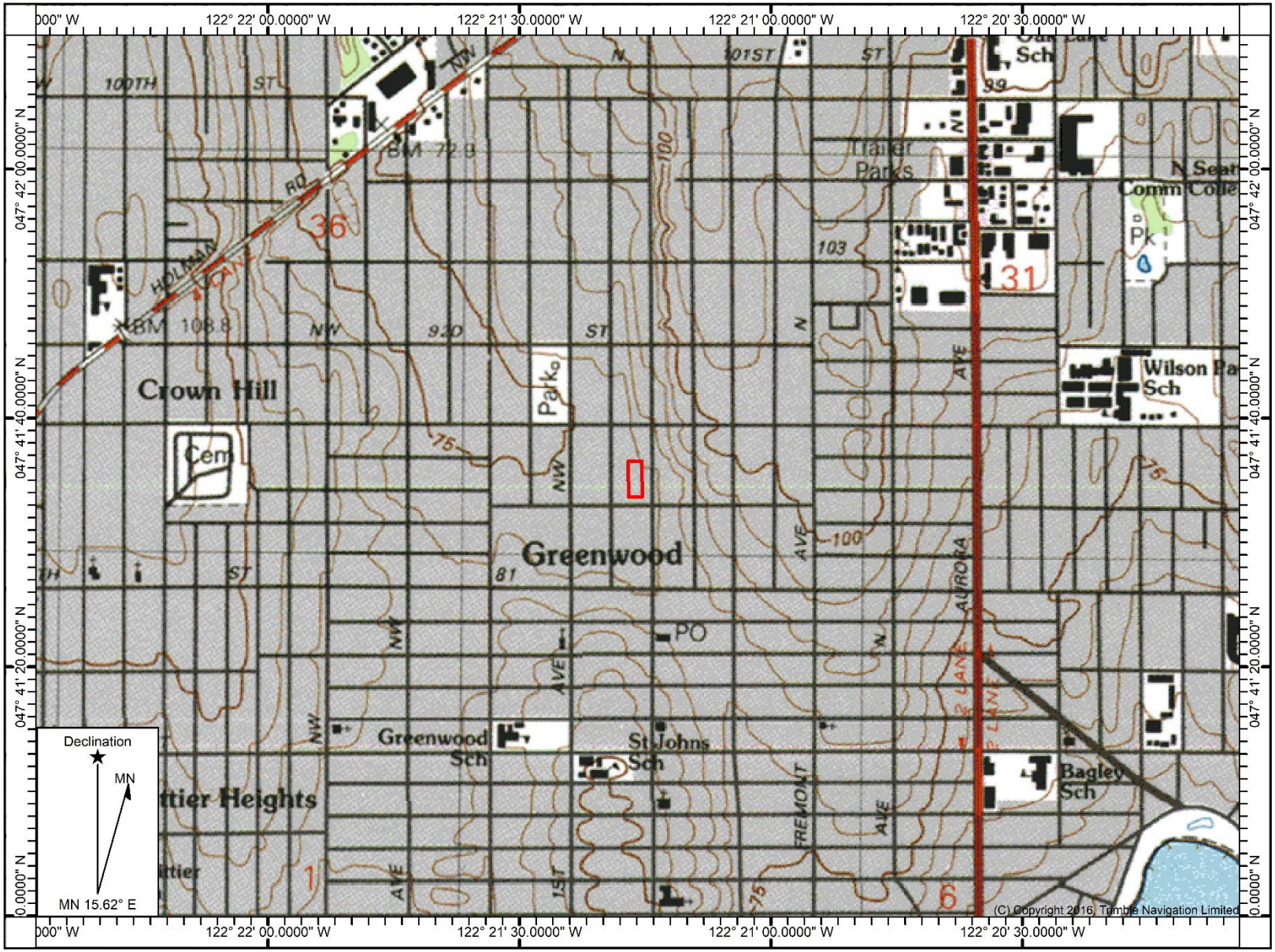
J = the identification of the analyte is acceptable; the reported value is an estimate

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

* = Silica gel cleanup

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

Figures



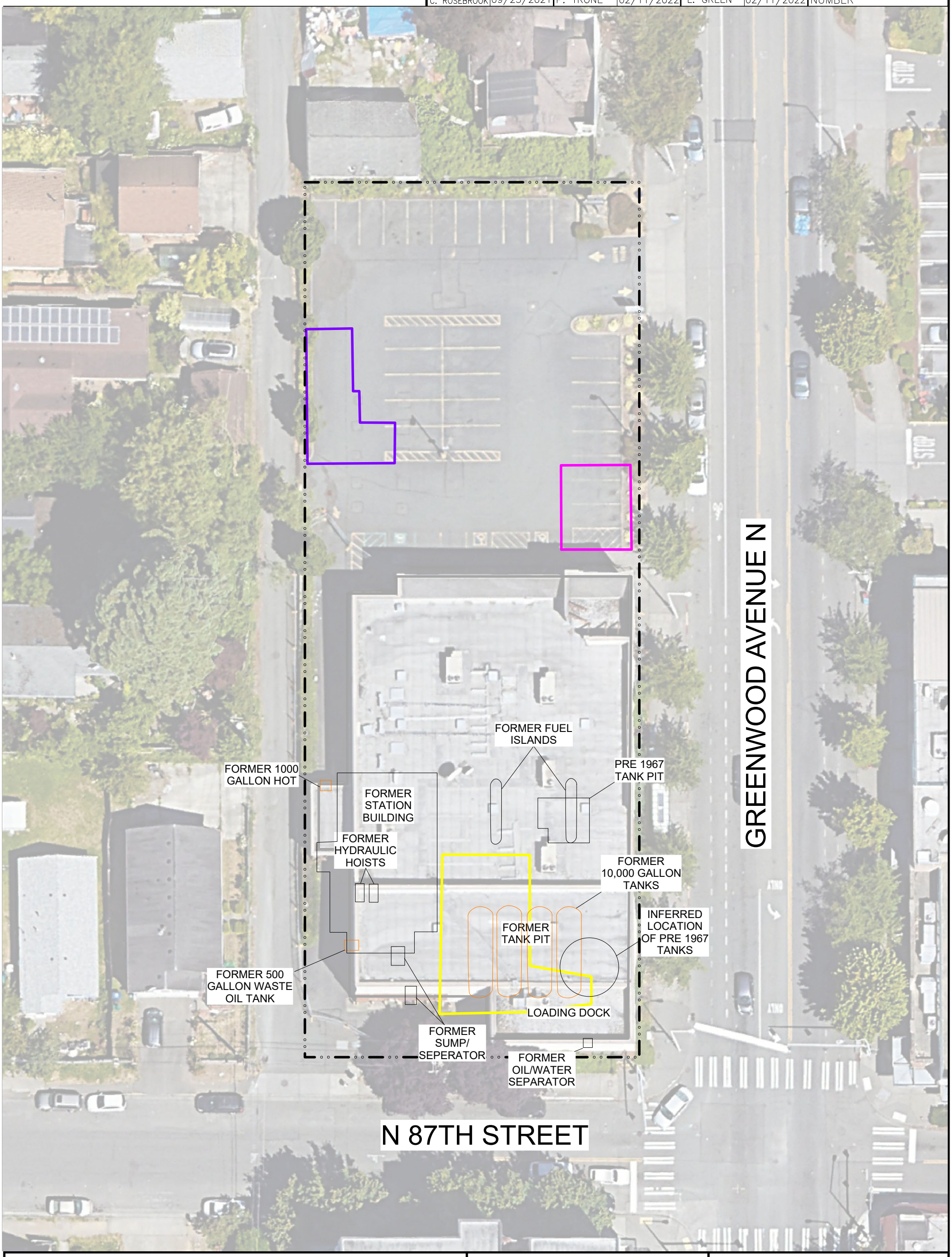
Name: SEATTLE NORTH
Date: 09/20/21

0 1000 2000 3000
Feet

Location: 047° 41' 35.3419" N, 122° 21' 15.9186" W
Contour Interval: 16 ft

EVREN NORTHWEST INC environmental, natural resource consultants	Date Drawn: 2/28/2022 CAD File Name: 1581-21001-01_fig1sv_map.docx Drawn By: CLR Approved By: LDG	Future Kiddie Academy Property 8701 Greenwood Avenue N Seattle, Washington	**Site Vicinity Map**	Project No. 1581-21001 Figure No. **1**

DRAWN BY		CHECKED BY		APPROVED BY		DRAWING NUMBER
C. ROSEBROOK	09/23/2021	P. TRONE	02/11/2022	L. GREEN	02/11/2022	1581-21001(v01)



LEGEND:

- SUBJECT BUILDINGS
- SUBJECT PROPERTY BOUNDARIES
- FORMER GAS STATION PER 1950 HISTORICAL SANBORN MAP
- FORMER VANITY CLEANERS PER CITY DIRECTORY 1951–1955, LOCATION BASED ON 1950–1966 SANBORN MAP
- FORMER LAUNDRY PER 1930 HISTORICAL SANBORN MAP

* FORMER FEATURES PER 1994 EMCON NORTHWEST INC. AND TEXACO 1991 AND ENVIRO. RESOLUTION INC. 1994 AND 1996

NOTES:

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

0 30 60 FEET

N

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P: (503)452-5561, E: ENW@EVREN-NW.COM

FIGURE 2

SITE PLAN WITH HISTORICAL FEATURES OF INTEREST

FUTRUE KIDDIE ACADEMY PROPERTY
8701 GREENWOOD AVENUE N
SEATTLE, WASHINGTON

DRAWN BY		CHECKED BY		APPROVED BY		DRAWING NUMBER
C. ROSEBROOK	10/24/2022	E. CHAPMAN	10/21/2022	L. GREEN	08/25/2022	1581-21001(v01)

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 THE SITE-SPECIFIC CUL FOR TOTAL PETREOLUM HYDROCARBONS (>1706 MG/KG)
- GROUND WATER POTENTIOMETRIC SURFACE CONTOURS (THIRD QUARTER 2022)

NOTES:

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

0 30 60 FEET

N

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FIGURE 3

GROUND WATER POTENTIOMETRIC SURFACE MAP - FOURTH QUARTER 2022

PROPOSED KIDDIE ACADEMY PROPERTY
8701 GREENWOOD AVENUE N
SEATTLE, WASHINGTON

Appendix A

Site Photographs

View south at WELL-11 while setting up for monitoring and purging.

View of purging in progress (note use of a flow cell for parameter monitoring).

View north toward WELL-12, opened to equilibrate.

EVREN NORTHWEST INC. environmental / natural resource consultants	8701 Greenwood Avenue N Seattle, Washington	**Site Photographs**	Project No. 1581-21001-02 Appendix **A**

Appendix B

Field Sampling Data Sheets

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: 10/5/22

Field Personnel:	Dan S. and Bailey F.	Monitoring Well ID:	EMW01
Weather Conditions:	Overcast 59°F, 88% humidity	Start Time:	13:58
DTW (prior to purging):	3.72'		

WELL PURGING INFORMATION

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)
14:02	4.13	0.15	15.53	0.301	2.23	6.75	-134	32.3	0.6
14:06	4.23	0.15	15.19	0.300	1.30	6.77	-156	39.7	1.2
14:10	4.42	0.15	15.05	0.300	1.09	6.77	-165	30.5	1.8
14:14	4.58	0.15	14.91	0.301	0.86	6.76	-171	30.7	2.4
14:18	4.67	0.15	14.79	0.301	0.83	6.75	-174	29.5	3.0
14:22	4.72	0.15	14.69	0.301	0.82	6.73	-176	29.7	3.6
			Begin Sampling						

Tubing: 1/4" Total Purged: 3.6L

Purge Pumping Rate (approx. L/m): 0.15 Well casing (in. diam): 1 1/4"

Decontamination method: Approx. Pump/Intake Depth:

Well Conversion Factors: 2" = 0.17 gal / foot; 5/8" = 0.02 gal/foot

WELL CONDITION

Recommended Well Repairs/Additional Notes:

QA/QC Sample: ☐ Duplicate ☐ Lab QA/QC ☐ Equipment Blank ☐ None

Sampling Method: ☐ Grundfos Pump ☑ Peristaltic Pump ☐ Bladder Pump ☐ Dual Valve

SAMPLE INFORMATION

Analytical Parameters	Destination Laboratory	Preservative	Bottle Size	Number of bottles	Sample ID	Time Sampled
Gx	F + B	HCl	40ml	2	GMW01-221005	14:38
MTCA VOCs	"	HCl	40ml	4		
Dx	"	none	500 ml amber	1		
cPAHs	"	none	1L amber	1		

Method of Transportation of samples: FedEx Courier

All samples were immediately placed into a cooler and packed with ice or "blue Ice" ☑ Yes ☐ No

Field Observations/Notes of sampling event:

Signature of Field Personnel:

.N Northwest

GROUND WATER FIELD SAMPLING DATA FORM (FIELD)

ECT NAME: **8701 Greenwood Avenue N. Seattle**

PROJECT NUMBER: **1581-21001-01**

it: Ground Monitoring

Date: 10-05-22

Personnel: Dan S. and Bailey F.

Monitoring Well ID: Well-2

ather Conditions: Overcast, 59°F, 88% humidity

Start Time: 12:25

rW (prior to purging): 2.02

WELL PURGING INFORMATION

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)
12:29	4.98	0.15	15.14	0.311	1.37	6.62	-131	51.1	0.6
12:33	5.98	0.15	15.06	0.310	0.97	6.78	-152	34.7	1.2
12:37	6.61	0.15	15.14	0.310	0.85	6.83	-160	24.9	1.8
12:41	7.22	0.15	15.10	0.310	0.81	6.84	-164	18.4	2.4
12:45	7.78	0.15	15.04	0.309	0.80	6.86	-167	18.3	3.0
				Begin	Sampling				

Total Purged: 7.0L

ubing: 1/4"

urge Pumping Rate (approx. L/m): 0.15

econtamination method:

Well casing (in. diam): 2 1/4"

Approx. Pump/Intake Depth:

ell Conversion Factors: 2" = 0.17 gal / foot; 5/8" = 0.02 gal/foot

WELL CONDITION

ecommended Well Repairs/Additional Notes:

A/QC Sample: ☐ Duplicate ☐ Lab QA/QC ☐ Equipment Blank ☐ None

ampling Method: ☐ Grundfos Pump ☑ Peristaltic Pump ☐ Bladder Pump ☐ Dual Valve

SAMPLE INFORMATION

Analytical Parameters	Destination Laboratory	Preservative	Bottle Size	Number of bottles	Sample ID	Time Sampled
Gx	F + B	HCl	40ml	2	Well2-221005	12:50
MTCA VOCs	"	HCl	40ml	4		
Dx	"	none	500 ml amber	1		
cPAHs	"	none	1L amber	1		

ethod of Transportation of samples: FedEx Courier

samples were immediately placed into a cooler and packed with ice or "blue Ice" ☑ Yes ☐ No

ld Observations/Notes of sampling event:

nature of Field Personnel:

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: 10/5/22

Field Personnel:	Dan S. and Bailey F.	Monitoring Well ID:	Well-3
Weather Conditions:	Overcast, 58°F 90% hum.	Start Time:	11:14
DTW (prior to purging):	1.92'		

WELL PURGING INFORMATION

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)
11:17	3.00	0.15	16.56	0.310	1.67	6.15	-13	143	0.6
11:21	3.34	0.15	16.56	0.298	1.10	6.91	-73	253	1.2
11:25	3.71	0.15	16.25	0.287	1.00	6.46	-100	273	1.8
11:29	4.01	0.15	16.03	0.284	1.06	6.43	-102	173	2.4
11:33	4.16	0.15	15.92	0.282	1.01	6.62	-115	134	3.0
11:37	4.32	0.15	15.82	0.280	0.91	6.70	-123	107	3.6
			Begin Sampling						

Total Purged: 3.6L

Tubing:	1/4"		
Purge Pumping Rate (approx. L/m):	0.15	Well casing (in. diam):	2 1/4"
Decontamination method:		Approx. Pump/Intake Depth:	

Well Conversion Factors: 2" = 0.17 gal / foot; 5/8" = 0.02 gal/foot

WELL CONDITION

Recommended Well Repairs/Additional Notes:

QA/QC Sample:	☐ Duplicate	☐ Lab QA/QC	☐ Equipment Blank	☐ None		
Sampling Method:	☐ Grundfos Pump	☑ Peristaltic Pump	☐ Bladder Pump	☐ Dual Valve		

SAMPLE INFORMATION

Analytical Parameters	Destination Laboratory	Preservative	Bottle Size	Number of bottles	Sample ID	Time Sampled
Gx	F + B	HCl	40ml	2	Well3-221005	11:55
MTCA VOCs / CVOCs	"	HCl	40ml	4		
Dx	"	none	500 ml amber	1		
cPAHs	"	none	1L amber	1		

Method of Transportation of samples: FedEx Courier

All samples were immediately placed into a cooler and packed with ice or "blue Ice" ☑ Yes ☐ No

Field Observations/Notes of sampling event:

Signature of Field Personnel:

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: 10-05-22

Field Personnel:	Dan S. and Bailey F.	Monitoring Well ID:	Well-4
Weather Conditions:	Cloudy 70°	Start Time:	13:20
DTW (prior to purging):	Overflowing		

WELL PURGING INFORMATION

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)
13:24	Overflow	200mL	14.48	272.05	0.60	6.92	-29.9	7.95	.8
13:28	Overflow	200mL	14.48	272.48	0.47	6.66	-41.5	0.14	1.6
13:32	Overflow	200mL	14.46	272.31	0.29	6.68	-49.2	1.28	2.4
13:36	Overflow	200mL	14.41	272.51	0.22	6.53	-53.6	0.59	3.2
13:40	Overflow	200mL	14.40	273.35	0.21	6.48	-54.0	2.97	4.0
13:44	Overflow	200mL		273.47	0.20	6.50	-61.9	1.16	4.8

Total Purged: 4.8

Tubing:	1/4" LDPE		
Purge Pumping Rate (approx. L/m):	200mL	Well casing (in. diam):	2.0"
Decontamination method:		Approx. Pump/Intake Depth:	

Well Conversion Factors: 2" = 0.17 gal / foot; 5/8" = 0.02 gal/foot

WELL CONDITION

Recommended Well Repairs/Additional Notes:

QA/QC Sample:	☐ Duplicate	☐ Lab QA/QC	☐ Equipment Blank	☐ None	
Sampling Method:	☐ Grundfos Pump	☒ Peristaltic Pump	☐ Bladder Pump	☐ Dual Valve	

SAMPLE INFORMATION

Analytical Parameters	Destination Laboratory	Preservative	Bottle Size	Number of bottles	Sample ID	Time Sampled
Gx	F + B	HCl	40ml	2	Well4-221005	13:46
Dx	"	none	500 ml amber	1		
cPAHs	"	none	1L amber	1		

Method of Transportation of samples: FedEx Courier

All samples were immediately placed into a cooler and packed with ice or "blue Ice" ☒ Yes ☐ No

Field Observations/Notes of sampling event:

Signature of Field Personnel:

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: 10-05-22

Field Personnel:	Dan S. and Bailey F.	Monitoring Well ID:	Well-5
Weather Conditions:	Cloudy, 62°	Start Time:	12:48
DTW (prior to purging):	Surface		

WELL PURGING INFORMATION

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)
12:52	0.30	200ML	16.48	272.81	0.27	6.85	-24.3	4.20	.8
12:58	0.50	200ML	16.35	272.94	0.18	6.70	-47.7	5.60	1.6
13:00	0.50	200ML	16.27	273.90	0.15	6.67	-53.3	3.31	2.4
13:04	0.50	200ML	16.25	273.37	0.14	6.65	-58.6	2.84	3.2

Total Purged: 3.2L

Tubing: 1/4" LDPE

Purge Pumping Rate (approx. L/m): 200ML

Decontamination method:

Well casing (in. diam): 2in

Approx. Pump/Intake Depth:

Well Conversion Factors: 2" = 0.17 gal / foot; 5/8" = 0.02 gal/foot

WELL CONDITION

Recommended Well Repairs/Additional Notes:

QA/QC Sample:	☐ Duplicate	☐ Lab QA/QC	☐ Equipment Blank	☐ None		
Sampling Method:	☐ Grundfos Pump	☒ Peristaltic Pump	☐ Bladder Pump	☐ Dual Valve		

SAMPLE INFORMATION

Analytical Parameters	Destination Laboratory	Preservative	Bottle Size	Number of bottles	Sample ID	Time Sampled
Gx	F + B	HCl	40ml	2	Well5-221005	13:05
Dx	"	none	500 ml amber	1		
cPAHs	"	none	1L amber	1		

Method of Transportation of samples: FedEx Courier

All samples were immediately placed into a cooler and packed with ice or "blue Ice" ☒ Yes ☐ No

Field Observations/Notes of sampling event:

Signature of Field Personnel:

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: 10-05-22

Field Personnel:	Dan S. and Bailey F.	Monitoring Well ID:	MW-8
Weather Conditions:	Overcast, 59°F, 88% humidity	Start Time:	13:14
DTW (prior to purging):	3.65'		

WELL PURGING INFORMATION

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)
13:18	3.80	0.15	16.35	0.244	2.69	6.69	-124	22.4	0.6
13:22	4.15	0.15	16.16	0.242	1.11	6.65	-153	20.6	1.2
13:26	4.46	0.15	16.17	0.240	0.88	6.66	-163	19.8	1.8
13:30	4.69	0.15	16.38	0.238	0.83	6.66	-168	18.6	2.4
13:34	4.64	0.15	16.54	0.237	0.84	6.67	-171	17.9	3.0
				Begin Sampling					
								Total Purged:	3.0L

Tubing: 1/4"

Purge Pumping Rate (approx. L/m): 0.15

Decontamination method:

Well casing (in. diam): ~~2~~ 2 1/4"

Approx. Pump/Intake Depth:

Well Conversion Factors: 2" = 0.17 gal / foot; 5/8" = 0.02 gal/foot

WELL CONDITION

Recommended Well Repairs/Additional Notes:

QA/QC Sample:	☐ Duplicate	☐ Lab QA/QC	☐ Equipment Blank	☐ None		
Sampling Method:	☐ Grundfos Pump	☑ Peristaltic Pump	☐ Bladder Pump	☐ Dual Valve		

SAMPLE INFORMATION

Analytical Parameters	Destination Laboratory	Preservative	Bottle Size	Number of bottles	Sample ID	Time Sampled
Gx	F + B	HCl	40ml	2	MW8-221005	13:47
MTCA VOCs	"	HCl	40ml	4		
Dx	"	none	500 ml amber	1		
cPAHs	"	none	1L amber	1		

Method of Transportation of samples: FedEx Courier

All samples were immediately placed into a cooler and packed with ice or "blue Ice" ☑ Yes ☐ No

Field Observations/Notes of sampling event:

Signature of Field Personnel:

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: 10-05-22

Field Personnel:	Dan S. and Bailey F.	Monitoring Well ID:	Well-11
Weather Conditions:	Cloudy, 60°	Start Time:	10:50
DTW (prior to purging):	Surface		

WELL PURGING INFORMATION

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)
10:54	.95	150mL	17.28	282.5	2.01	7.57	-9.0	1.11	.6
10:58	1.21	150mL	17.59	280.58	2.11	7.39	-0.9	1.31	1.2
11:02	1.52	150mL	18.05	280.04	2.11	7.33	4.3	1.80	1.8
11:06	1.73	150mL	18.12	279.08	2.04	7.31	8.1	2.10	2.4
11:10	1.81	150mL	18.14	278.72	1.94	7.30	9.8	3.33	3.0
11:14	1.90	150mL	18.03	277.66	1.71	7.20	11.9	7.36	3.6
11:18	1.93	150mL	17.90	275.33	1.05	7.07	1.8	7.55	4.2
11:22	1.96	150mL	17.74	277.21	0.79	7.03	-2.8	11.23	4.8
11:26	1.99	150mL	17.40	274.55	0.41	6.94	-35.7	16.00	5.4
11:30	2.01	150mL	17.23	278.47	0.22	6.91	-42.9	19.00	6.0
11:34	2.06	150mL	17.06	278.22	0.30	7.03	-49.9	23.82	6.6
11:38	2.05	150mL		279.03	0.56	7.01	-95.6	27.31	7.2
								Total Purged:	7.2

Tubing: 1/4" LDPE Well casing (in. diam): 2-in

Purge Pumping Rate (approx. L/m): 150mL Approx. Pump/Intake Depth:

Decontamination method:

Well Conversion Factors: 2" = 0.17 gal / foot; 5/8" = 0.02 gal/foot

WELL CONDITION

Recommended Well Repairs/Additional Notes:

QA/QC Sample: ☐ Duplicate ☐ Lab QA/QC ☐ Equipment Blank ☐ None

Sampling Method: ☐ Grundfos Pump ☒ Peristaltic Pump ☐ Bladder Pump ☐ Dual Valve

SAMPLE INFORMATION

Analytical Parameters	Destination Laboratory	Preservative	Bottle Size	Number of bottles	Sample ID	Time Sampled
Gx	F + B	HCl	40ml	2	Well11-221005	11:40
MTCA VOCs / CVOCs	"	HCl	40ml	4	↓	
Dx	"	none	500 ml amber	1		
cPAHs	"	none	1L amber	1		

Method of Transportation of samples: FedEx Courier

All samples were immediately placed into a cooler and packed with ice or "blue Ice" ☒ Yes ☐ No

Field Observations/Notes of sampling event: Having really difficult time getting it to stabilize

Signature of Field Personnel:

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: 10-05-22

Field Personnel:	Dan S. and Bailey F.	Monitoring Well ID:	Well-12
Weather Conditions:	Cloudy 60°	Start Time:	12:06
DTW (prior to purging):	.50		

WELL PURGING INFORMATION

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)
12:10	.91	150mL	16.18	275.16	0.21	6.72	11.4	0.00	.6
12:14	1.09	150mL	16.11	275.46	0.19	7.14	-0.4	0.00	1.2
12:18	1.15	150mL	16.16	275.60	0.17	6.99	-6.7	0.00	1.8
12:22	1.16	150mL	16.04	275.62	0.17	6.93	-12.3	0.00	2.4
12:26	1.19	150mL	16.18	275.72	0.17	6.92	-17.1	0.00	3.0
								Total Purged:	3.0

Tubing: 1/4" LDPE

Purge Pumping Rate (approx. L/m): 150mL

Decontamination method:

Well casing (in. diam): 2in

Approx. Pump/Intake Depth:

Well Conversion Factors: 2" = 0.17 gal / foot; 5/8" = 0.02 gal/foot

WELL CONDITION

Recommended Well Repairs/Additional Notes:

QA/QC Sample: ☐ Duplicate ☐ Lab QA/QC ☐ Equipment Blank ☐ None

Sampling Method: ☐ Grundfos Pump ☒ Peristaltic Pump ☐ Bladder Pump ☐ Dual Valve

SAMPLE INFORMATION

Analytical Parameters	Destination Laboratory	Preservative	Bottle Size	Number of bottles	Sample ID	Time Sampled
Gx	F + B	HCl	40ml	2	~~Well~~	12:26
MTCA VOCs / CVOCs	"	HCl	40ml	4	Well12-221005	
Dx	"	none	500 ml amber	1		
cPAHs	"	none	1L amber	1		
Total Pb, Cd	"	HNO3	250ml poly	1		

Method of Transportation of samples: FedEx Courier

All samples were immediately placed into a cooler and packed with ice or "blue Ice" ☒ Yes ☐ No

Field Observations/Notes of sampling event:

Signature of Field Personnel:

Appendix C

Laboratory Analytical Report

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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www.friedmanandbruya.com

October 17, 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 October 7, 2022 from the 1581-21001-02, F&BI 210094 project. There are 33 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
ENW1017R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on October 7, 2022 by Friedman & Bruya, Inc. from the Evren Northwest 1581-21001-02, F&BI 210094 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Evren Northwest
210094 -01	EMW01-221005
210094 -02	Well2-221005
210094 -03	Well3-221005
210094 -04	Well4-221005
210094 -05	Well5-221005
210094 -06	MW8-221005
210094 -07	Well11-221005
210094 -08	Well12-221005
210094 -09	FD-221005
210094 -10	Trip Blank

Methylene chloride was detected in the 8260D analysis of sample Well11-221005, Well12-221005, and the method blank. The data were flagged as due to laboratory contamination.

The 8260D laboratory control sample duplicate exceeded the acceptance criteria for methylene chloride. The compound was not detected, therefore the data were acceptable.

The 8270E laboratory control sample and laboratory control sample duplicate exceeded the relative percent difference for several compounds. In addition, 1-methylnaphthalene exceeded the acceptance criteria in the laboratory control sample duplicate. The analytes were not detected therefore the data were acceptable.

All other quality control requirements were acceptable.

Date of Report: 10/17/22
Date Received: 10/07/22
Project: 1581-21001-02, F&BI 210094
Date Extracted: 10/11/22
Date Analyzed: 10/11/22

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

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Gasoline Range	Surrogate (% Recovery) (Limit 51-134)
EMW01-221005 210094-01	<100	91
Well2-221005 210094-02	<100	91
Well3-221005 210094-03	<100	90
Well4-221005 210094-04	<100	90
Well5-221005 210094-05	<100	95
MW8-221005 210094-06	<100	91
Well11-221005 210094-07	<100	91
Well12-221005 210094-08	<100	91
FD-221005 210094-09	<100	93
Method Blank 02-2353 MB	<100	92

Date of Report: 10/17/22
Date Received: 10/07/22
Project: 1581-21001-02, F&BI 210094
Date Extracted: 10/10/22
Date Analyzed: 10/13/22

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND RESIDUAL RANGE USING METHOD NWTPH-Dx
Sample Extracts Passed Through a Silica Gel Column Prior to Analysis
Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Residual Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 47-140)
EMW01-221005 210094-01	<50	<250	106
Well2-221005 210094-02	<50	<250	120
Well4-221005 210094-04	<50	<250	116
Well5-221005 210094-05	<50	<250	110
MW8-221005 210094-06	<50	<250	124
Well11-221005 210094-07	<50	<250	117
Method Blank 02-2444 MB	<50	<250	91

Date of Report: 10/17/22
Date Received: 10/07/22
Project: 1581-21001-02, F&BI 210094
Date Extracted: 10/10/22
Date Analyzed: 10/10/22

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

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Residual Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 41-152)
EMW01-221005 210094-01	54 x	<250	123
Well2-221005 210094-02	99 x	<250	129
Well3-221005 210094-03	<50	<250	119
Well4-221005 210094-04	66 x	<250	126
Well5-221005 210094-05	73 x	<250	125
MW8-221005 210094-06	430 x	300 x	123
Well11-221005 210094-07	98 x	<250	131
Well12-221005 210094-08	<50	<250	142
FD-221005 210094-09	<50	<250	124
Method Blank 02-2444 MB	<50	<250	109

Analysis For Total Metals By EPA Method 6020B

Client ID:	Well12-221005	Client:	Evren Northwest
Date Received:	10/07/22	Project:	1581-21001-02, F&BI 210094
Date Extracted:	10/07/22	Lab ID:	210094-08
Date Analyzed:	10/07/22	Data File:	210094-08.161
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Cadmium	<1
Lead	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	Evren Northwest
Date Received:	NA	Project:	1581-21001-02, F&BI 210094
Date Extracted:	10/07/22	Lab ID:	I2-717 mb
Date Analyzed:	10/07/22	Data File:	I2-717 mb.092
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Cadmium	<1
Lead	<1

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	EMW01-221005	Client:	Evren Northwest
Date Received:	10/07/22	Project:	1581-21001-02, F&BI 210094
Date Extracted:	10/10/22	Lab ID:	210094-01
Date Analyzed:	10/10/22	Data File:	101012.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	78	126
Toluene-d8	108	84	115
4-Bromofluorobenzene	102	72	130

Compounds:	Concentration ug/L (ppb)
Methyl t-butyl ether (MTBE)	<1
1,2-Dichloroethane (EDC)	<0.2
Benzene	<0.35
Toluene	<1
1,2-Dibromoethane (EDB)	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1
Isopropylbenzene	<1
n-Propylbenzene	<1
1,3,5-Trimethylbenzene	<1
1,2,4-Trimethylbenzene	<1
Naphthalene	<1

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Well2-221005	Client:	Evren Northwest
Date Received:	10/07/22	Project:	1581-21001-02, F&BI 210094
Date Extracted:	10/10/22	Lab ID:	210094-02
Date Analyzed:	10/10/22	Data File:	101013.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	78	126
Toluene-d8	107	84	115
4-Bromofluorobenzene	100	72	130

Compounds:	Concentration ug/L (ppb)
Methyl t-butyl ether (MTBE)	<1
1,2-Dichloroethane (EDC)	<0.2
Benzene	<0.35
Toluene	<1
1,2-Dibromoethane (EDB)	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1
Isopropylbenzene	<1
n-Propylbenzene	<1
1,3,5-Trimethylbenzene	<1
1,2,4-Trimethylbenzene	<1
Naphthalene	<1

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Well3-221005	Client:	Evren Northwest
Date Received:	10/07/22	Project:	1581-21001-02, F&BI 210094
Date Extracted:	10/10/22	Lab ID:	210094-03
Date Analyzed:	10/10/22	Data File:	101014.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	78	126
Toluene-d8	109	84	115
4-Bromofluorobenzene	100	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
Methyl t-butyl ether (MTBE)	<1
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<0.2
1,1,1-Trichloroethane	<1
Benzene	<0.35
Trichloroethene	<0.5
Toluene	<1
Tetrachloroethene	<1
1,2-Dibromoethane (EDB)	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1
Isopropylbenzene	<1
n-Propylbenzene	<1
1,3,5-Trimethylbenzene	<1
1,2,4-Trimethylbenzene	<1
Naphthalene	<1

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW8-221005	Client:	Evren Northwest
Date Received:	10/07/22	Project:	1581-21001-02, F&BI 210094
Date Extracted:	10/10/22	Lab ID:	210094-06
Date Analyzed:	10/10/22	Data File:	101015.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	93	78	126
Toluene-d8	108	84	115
4-Bromofluorobenzene	100	72	130

Compounds:	Concentration ug/L (ppb)
Methyl t-butyl ether (MTBE)	<1
1,2-Dichloroethane (EDC)	<0.2
Benzene	<0.35
Toluene	<1
1,2-Dibromoethane (EDB)	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1
Isopropylbenzene	<1
n-Propylbenzene	<1
1,3,5-Trimethylbenzene	<1
1,2,4-Trimethylbenzene	<1
Naphthalene	<1

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Well11-221005	Client:	Evren Northwest
Date Received:	10/07/22	Project:	1581-21001-02, F&BI 210094
Date Extracted:	10/10/22	Lab ID:	210094-07
Date Analyzed:	10/10/22	Data File:	101016.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	105	78	126
Toluene-d8	104	84	115
4-Bromofluorobenzene	98	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	5.1 ca jl lc
Methyl t-butyl ether (MTBE)	<1
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<0.2
1,1,1-Trichloroethane	<1
Benzene	<0.35
Trichloroethene	<0.5
Toluene	<1
Tetrachloroethene	<1
1,2-Dibromoethane (EDB)	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1
Isopropylbenzene	<1
n-Propylbenzene	<1
1,3,5-Trimethylbenzene	<1
1,2,4-Trimethylbenzene	<1
Naphthalene	15

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Well12-221005	Client:	Evren Northwest
Date Received:	10/07/22	Project:	1581-21001-02, F&BI 210094
Date Extracted:	10/10/22	Lab ID:	210094-08
Date Analyzed:	10/10/22	Data File:	101017.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	78	126
Toluene-d8	97	84	115
4-Bromofluorobenzene	94	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	7.5 ca jl lc
Methyl t-butyl ether (MTBE)	<1
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<0.2
1,1,1-Trichloroethane	<1
Benzene	<0.35
Trichloroethene	<0.5
Toluene	<1
Tetrachloroethene	<1
1,2-Dibromoethane (EDB)	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1
Isopropylbenzene	<1
n-Propylbenzene	<1
1,3,5-Trimethylbenzene	<1
1,2,4-Trimethylbenzene	<1
Naphthalene	<1

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	FD-221005	Client:	Evren Northwest
Date Received:	10/07/22	Project:	1581-21001-02, F&BI 210094
Date Extracted:	10/10/22	Lab ID:	210094-09
Date Analyzed:	10/10/22	Data File:	101018.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	78	126
Toluene-d8	105	84	115
4-Bromofluorobenzene	104	72	130

Compounds:	Concentration ug/L (ppb)
Methyl t-butyl ether (MTBE)	<1
1,2-Dichloroethane (EDC)	<0.2
Benzene	<0.35
Toluene	<1
1,2-Dibromoethane (EDB)	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1
Isopropylbenzene	<1
n-Propylbenzene	<1
1,3,5-Trimethylbenzene	<1
1,2,4-Trimethylbenzene	<1
Naphthalene	<1

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Trip Blank	Client:	Evren Northwest
Date Received:	10/07/22	Project:	1581-21001-02, F&BI 210094
Date Extracted:	10/10/22	Lab ID:	210094-10
Date Analyzed:	10/10/22	Data File:	101019.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	78	126
Toluene-d8	105	84	115
4-Bromofluorobenzene	99	72	130

Compounds:	Concentration ug/L (ppb)
Methyl t-butyl ether (MTBE)	<1
1,2-Dichloroethane (EDC)	<0.2
Benzene	<0.35
Toluene	<1
1,2-Dibromoethane (EDB)	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1
Isopropylbenzene	<1
n-Propylbenzene	<1
1,3,5-Trimethylbenzene	<1
1,2,4-Trimethylbenzene	<1
Naphthalene	<1

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Method Blank	Client:	Evren Northwest
Date Received:	Not Applicable	Project:	1581-21001-02, F&BI 210094
Date Extracted:	10/10/22	Lab ID:	02-2326 mb
Date Analyzed:	10/10/22	Data File:	101007.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	78	126
Toluene-d8	107	84	115
4-Bromofluorobenzene	98	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	7.5 ca jl lc
Methyl t-butyl ether (MTBE)	<1
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<0.2
1,1,1-Trichloroethane	<1
Benzene	<0.35
Trichloroethene	<0.5
Toluene	<1
Tetrachloroethene	<1
1,2-Dibromoethane (EDB)	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1
Isopropylbenzene	<1
n-Propylbenzene	<1
1,3,5-Trimethylbenzene	<1
1,2,4-Trimethylbenzene	<1
Naphthalene	<1

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	EMW01-221005	Client:	Evren Northwest
Date Received:	10/07/22	Project:	1581-21001-02, F&BI 210094
Date Extracted:	10/10/22	Lab ID:	210094-01
Date Analyzed:	10/11/22	Data File:	101107.D
Matrix:	Water	Instrument:	GCMS12
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Nitrobenzene-d5	75	11	173
2-Fluorobiphenyl	85	44	108
2,4,6-Tribromophenol	99	10	140
Terphenyl-d14	92	50	150

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.2
2-Methylnaphthalene	<0.2
1-Methylnaphthalene	<0.2
Acenaphthylene	<0.02
Acenaphthene	0.24
Fluorene	0.042
Phenanthrene	<0.02
Anthracene	<0.02
Fluoranthene	<0.02
Pyrene	<0.02
Benz(a)anthracene	<0.02
Chrysene	<0.02
Benzo(a)pyrene	<0.02
Benzo(b)fluoranthene	<0.02
Benzo(k)fluoranthene	<0.02
Indeno(1,2,3-cd)pyrene	<0.02
Dibenz(a,h)anthracene	<0.02
Benzo(g,h,i)perylene	<0.04

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	Well2-221005	Client:	Evren Northwest
Date Received:	10/07/22	Project:	1581-21001-02, F&BI 210094
Date Extracted:	10/10/22	Lab ID:	210094-02
Date Analyzed:	10/11/22	Data File:	101108.D
Matrix:	Water	Instrument:	GCMS12
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Nitrobenzene-d5	74	11	173
2-Fluorobiphenyl	81	44	108
2,4,6-Tribromophenol	104	10	140
Terphenyl-d14	88	50	150

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

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	Well3-221005	Client:	Evren Northwest
Date Received:	10/07/22	Project:	1581-21001-02, F&BI 210094
Date Extracted:	10/10/22	Lab ID:	210094-03
Date Analyzed:	10/11/22	Data File:	101109.D
Matrix:	Water	Instrument:	GCMS12
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Nitrobenzene-d5	81	11	173
2-Fluorobiphenyl	87	44	108
2,4,6-Tribromophenol	108	10	140
Terphenyl-d14	93	50	150

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

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	Well4-221005	Client:	Evren Northwest
Date Received:	10/07/22	Project:	1581-21001-02, F&BI 210094
Date Extracted:	10/10/22	Lab ID:	210094-04
Date Analyzed:	10/11/22	Data File:	101110.D
Matrix:	Water	Instrument:	GCMS12
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Nitrobenzene-d5	75	11	173
2-Fluorobiphenyl	84	44	108
2,4,6-Tribromophenol	101	10	140
Terphenyl-d14	90	50	150

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.2
2-Methylnaphthalene	<0.2
1-Methylnaphthalene	<0.2
Acenaphthylene	<0.02
Acenaphthene	1.5
Fluorene	0.35
Phenanthrene	0.14
Anthracene	<0.02
Fluoranthene	0.046
Pyrene	0.023
Benz(a)anthracene	<0.02
Chrysene	<0.02
Benzo(a)pyrene	<0.02
Benzo(b)fluoranthene	<0.02
Benzo(k)fluoranthene	<0.02
Indeno(1,2,3-cd)pyrene	<0.02
Dibenz(a,h)anthracene	<0.02
Benzo(g,h,i)perylene	<0.04

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	Well5-221005	Client:	Evren Northwest
Date Received:	10/07/22	Project:	1581-21001-02, F&BI 210094
Date Extracted:	10/10/22	Lab ID:	210094-05
Date Analyzed:	10/11/22	Data File:	101111.D
Matrix:	Water	Instrument:	GCMS12
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Nitrobenzene-d5	80	11	173
2-Fluorobiphenyl	83	44	108
2,4,6-Tribromophenol	108	10	140
Terphenyl-d14	89	50	150

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.2
2-Methylnaphthalene	<0.2
1-Methylnaphthalene	<0.2
Acenaphthylene	<0.02
Acenaphthene	4.3
Fluorene	1.5
Phenanthrene	0.24
Anthracene	<0.02
Fluoranthene	<0.02
Pyrene	<0.02
Benz(a)anthracene	<0.02
Chrysene	<0.02
Benzo(a)pyrene	<0.02
Benzo(b)fluoranthene	<0.02
Benzo(k)fluoranthene	<0.02
Indeno(1,2,3-cd)pyrene	<0.02
Dibenz(a,h)anthracene	<0.02
Benzo(g,h,i)perylene	<0.04

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	MW8-221005	Client:	Evren Northwest
Date Received:	10/07/22	Project:	1581-21001-02, F&BI 210094
Date Extracted:	10/10/22	Lab ID:	210094-06
Date Analyzed:	10/11/22	Data File:	101112.D
Matrix:	Water	Instrument:	GCMS12
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Nitrobenzene-d5	72	11	173
2-Fluorobiphenyl	78	44	108
2,4,6-Tribromophenol	113	10	140
Terphenyl-d14	93	50	150

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

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	Well11-221005	Client:	Evren Northwest
Date Received:	10/07/22	Project:	1581-21001-02, F&BI 210094
Date Extracted:	10/10/22	Lab ID:	210094-07
Date Analyzed:	10/11/22	Data File:	101113.D
Matrix:	Water	Instrument:	GCMS12
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Nitrobenzene-d5	78	11	173
2-Fluorobiphenyl	79	44	108
2,4,6-Tribromophenol	110	10	140
Terphenyl-d14	89	50	150

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.2
2-Methylnaphthalene	<0.2
1-Methylnaphthalene	<0.2
Acenaphthylene	0.14
Acenaphthene	1.5
Fluorene	0.41
Phenanthrene	<0.02
Anthracene	<0.02
Fluoranthene	<0.02
Pyrene	<0.02
Benz(a)anthracene	<0.02
Chrysene	<0.02
Benzo(a)pyrene	<0.02
Benzo(b)fluoranthene	<0.02
Benzo(k)fluoranthene	<0.02
Indeno(1,2,3-cd)pyrene	<0.02
Dibenz(a,h)anthracene	<0.02
Benzo(g,h,i)perylene	<0.04

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	Well12-221005	Client:	Evren Northwest
Date Received:	10/07/22	Project:	1581-21001-02, F&BI 210094
Date Extracted:	10/10/22	Lab ID:	210094-08
Date Analyzed:	10/11/22	Data File:	101114.D
Matrix:	Water	Instrument:	GCMS12
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Nitrobenzene-d5	82	11	173
2-Fluorobiphenyl	84	44	108
2,4,6-Tribromophenol	100	10	140
Terphenyl-d14	88	50	150

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

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	FD-221005	Client:	Evren Northwest
Date Received:	10/07/22	Project:	1581-21001-02, F&BI 210094
Date Extracted:	10/10/22	Lab ID:	210094-09
Date Analyzed:	10/11/22	Data File:	101115.D
Matrix:	Water	Instrument:	GCMS12
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Nitrobenzene-d5	81	11	173
2-Fluorobiphenyl	85	44	108
2,4,6-Tribromophenol	108	10	140
Terphenyl-d14	94	50	150

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.2
2-Methylnaphthalene	<0.2
1-Methylnaphthalene	<0.2
Acenaphthylene	<0.02
Acenaphthene	0.24
Fluorene	0.042
Phenanthrene	<0.02
Anthracene	<0.02
Fluoranthene	<0.02
Pyrene	<0.02
Benz(a)anthracene	<0.02
Chrysene	<0.02
Benzo(a)pyrene	<0.02
Benzo(b)fluoranthene	<0.02
Benzo(k)fluoranthene	<0.02
Indeno(1,2,3-cd)pyrene	<0.02
Dibenz(a,h)anthracene	<0.02
Benzo(g,h,i)perylene	<0.04

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	Method Blank	Client:	Evren Northwest
Date Received:	Not Applicable	Project:	1581-21001-02, F&BI 210094
Date Extracted:	10/10/22	Lab ID:	02-2443 mb
Date Analyzed:	10/10/22	Data File:	00801009.D
Matrix:	Water	Instrument:	GCMS12
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Nitrobenzene-d5	68	11	173
2-Fluorobiphenyl	67	44	108
2,4,6-Tribromophenol	97	10	140
Terphenyl-d14	92	50	150

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

Date of Report: 10/17/22
Date Received: 10/07/22
Project: 1581-21001-02, F&BI 210094

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

Laboratory Code: 210115-01 (Duplicate)

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	ug/L (ppb)	1,000	102	69-134

Date of Report: 10/17/22
Date Received: 10/07/22
Project: 1581-21001-02, F&BI 210094

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

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	84	76	61-133	10

Date of Report: 10/17/22
Date Received: 10/07/22
Project: 1581-21001-02, F&BI 210094

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	76	92	63-142	19

Date of Report: 10/17/22
Date Received: 10/07/22
Project: 1581-21001-02, F&BI 210094

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

Laboratory Code: 210094-08 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Cadmium	ug/L (ppb)	5	<1	97	95	75-125	2
Lead	ug/L (ppb)	10	<1	98	95	75-125	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Cadmium	ug/L (ppb)	5	98	80-120
Lead	ug/L (ppb)	10	97	80-120

Date of Report: 10/17/22
Date Received: 10/07/22
Project: 1581-21001-02, F&BI 210094

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

Laboratory Code: 210115-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	10	<0.02	108	50-150
Chloroethane	ug/L (ppb)	10	<1	110	50-150
1,1-Dichloroethene	ug/L (ppb)	10	<1	101	50-150
Methylene chloride	ug/L (ppb)	10	8.2	96 b	50-150
Methyl t-butyl ether (MTBE)	ug/L (ppb)	10	<1	99	50-150
trans-1,2-Dichloroethene	ug/L (ppb)	10	<1	98	50-150
1,1-Dichloroethane	ug/L (ppb)	10	<1	103	50-150
cis-1,2-Dichloroethene	ug/L (ppb)	10	<1	101	50-150
1,2-Dichloroethane (EDC)	ug/L (ppb)	10	<0.2	101	50-150
1,1,1-Trichloroethane	ug/L (ppb)	10	<1	101	50-150
Benzene	ug/L (ppb)	10	<0.35	100	50-150
Trichloroethene	ug/L (ppb)	10	<0.5	99	50-150
Toluene	ug/L (ppb)	10	<1	85	50-150
Tetrachloroethene	ug/L (ppb)	10	<1	86	50-150
1,2-Dibromoethane (EDB)	ug/L (ppb)	10	<1	87	50-150
Ethylbenzene	ug/L (ppb)	10	<1	87	50-150
m,p-Xylene	ug/L (ppb)	20	<2	86	50-150
o-Xylene	ug/L (ppb)	10	<1	88	50-150
Isopropylbenzene	ug/L (ppb)	10	<1	86	50-150
n-Propylbenzene	ug/L (ppb)	10	<1	88	50-150
1,3,5-Trimethylbenzene	ug/L (ppb)	10	<1	86	50-150
1,2,4-Trimethylbenzene	ug/L (ppb)	10	<1	84	50-150
Naphthalene	ug/L (ppb)	10	<1	90	50-150

Date of Report: 10/17/22
Date Received: 10/07/22
Project: 1581-21001-02, F&BI 210094

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	10	117	123	70-130	5
Chloroethane	ug/L (ppb)	10	117	121	70-130	3
1,1-Dichloroethene	ug/L (ppb)	10	115	122	70-130	6
Methylene chloride	ug/L (ppb)	10	133	140 vo	43-134	5
Methyl t-butyl ether (MTBE)	ug/L (ppb)	10	112	115	70-130	3
trans-1,2-Dichloroethene	ug/L (ppb)	10	112	116	70-130	4
1,1-Dichloroethane	ug/L (ppb)	10	114	118	70-130	3
cis-1,2-Dichloroethene	ug/L (ppb)	10	115	124	70-130	8
1,2-Dichloroethane (EDC)	ug/L (ppb)	10	97	100	70-130	3
1,1,1-Trichloroethane	ug/L (ppb)	10	113	118	70-130	4
Benzene	ug/L (ppb)	10	104	108	70-130	4
Trichloroethene	ug/L (ppb)	10	101	103	70-130	2
Toluene	ug/L (ppb)	10	89	90	70-130	1
Tetrachloroethene	ug/L (ppb)	10	88	89	70-130	1
1,2-Dibromoethane (EDB)	ug/L (ppb)	10	84	83	70-130	1
Ethylbenzene	ug/L (ppb)	10	95	95	70-130	0
m,p-Xylene	ug/L (ppb)	20	94	94	70-130	0
o-Xylene	ug/L (ppb)	10	98	99	70-130	1
Isopropylbenzene	ug/L (ppb)	10	97	96	70-130	1
n-Propylbenzene	ug/L (ppb)	10	88	91	70-130	3
1,3,5-Trimethylbenzene	ug/L (ppb)	10	86	86	70-130	0
1,2,4-Trimethylbenzene	ug/L (ppb)	10	85	85	70-130	0
Naphthalene	ug/L (ppb)	10	81	82	70-130	1

Date of Report: 10/17/22
Date Received: 10/07/22
Project: 1581-21001-02, F&BI 210094

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	ug/L (ppb)	5	76	91	62-97	18
2-Methylnaphthalene	ug/L (ppb)	5	83	99	64-101	18
1-Methylnaphthalene	ug/L (ppb)	5	83	98 vo	64-93	17
Acenaphthylene	ug/L (ppb)	5	86	100	70-130	15
Acenaphthene	ug/L (ppb)	5	84	98	70-130	15
Fluorene	ug/L (ppb)	5	90	104	70-130	14
Phenanthrene	ug/L (ppb)	5	93	104	70-130	11
Anthracene	ug/L (ppb)	5	91	104	70-130	13
Fluoranthene	ug/L (ppb)	5	99	110	70-130	11
Pyrene	ug/L (ppb)	5	87	101	70-130	15
Benz(a)anthracene	ug/L (ppb)	5	93	108	70-130	15
Chrysene	ug/L (ppb)	5	93	108	70-130	15
Benzo(a)pyrene	ug/L (ppb)	5	94	110	70-130	16
Benzo(b)fluoranthene	ug/L (ppb)	5	103	124	70-130	19
Benzo(k)fluoranthene	ug/L (ppb)	5	93	105	70-130	12
Indeno(1,2,3-cd)pyrene	ug/L (ppb)	5	97	126	70-130	26 vo
Dibenz(a,h)anthracene	ug/L (ppb)	5	100	124	70-130	21 vo
Benzo(g,h,i)perylene	ug/L (ppb)	5	96	120	70-130	22 vo

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.

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.

2100 94

SAMPLE CHAIN OF CUSTODY

10/07/22 VW1/AI1/E04

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Report To Lynn Green

Company Evren Northwest

Address P.O. Box 14488

City, State, ZIP Portland, OR 97293

Phone (503)452-5561 Email lynng@evren-nw.com

SAMPLERS (*signature*) Jordan Morris

PROJECT NAME 1581-21001-02

PO #

REMARKS *VOCs (RBDM)
**CPAHs
Project specific RLs? - Yes / No

INVOICE TO

TURNAROUND TIME
☑ Standard turnaround
☐ RUSH
Rush charges authorized by:

SAMPLE DISPOSAL
☐ Archive samples
☐ Other
Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260*	PAHs EPA 8270**	PCBs EPA 8082	CVOCs	Pb+Cd	Dx w/SG		Notes
EMW01-221005	01 A-H	10-05-22	14:38	GW	8	X	X			X	X				●		● per LG
Well2-221005	02 |	10-05-22	12:58	GW	8	X	X			X	X				●		10/13/22 MC
Well3-221005	03 A-L	10-05-22	11:55	GW	12	X	X			X	X		X				
Well4-221005	04 A-D	10-05-22	13:46	GW	4	X	X				X				●		
Well5-221005	05 |	10-05-22	13:05	GW	4	X	X				X				●		
MW8-221005	06 A-H	10-05-22	13:47	GW	8	X	X			X	X				●		
Well11-221005	07 |	10-05-22	11:40	GW	8	X	X			X	X		X		●		
Well12-221005	08 A-I	10-05-22	12:26	GW	9	X	X			X	X		X	X			
FD-221005	09 A-H	10-05-22	09:00	GW	8	X	X			X	X						
Trip Blank	10 A-B	10-05-22	—	W	2					X							

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: Jordan Morris	Jordan Morris	Evren Northwest	10-06-22	16:00
Received by:	ANHPHAN	FSB	10/07/22 07 JB	10:53
Relinquished by:				
Received by:		Samples received at 2 °C		

Friedman & Bruya, Inc.
Ph. (206) 285-8282