



TECHNICAL MEMORANDUM

DATE: January 31, 2026
TO: Christopher Maurer - Department of Ecology
FROM: William Riley
SUBJECT: Long Term Monitoring Event 17 (2025)
CC: Files
PROJECT NAME: Former Chevron Tank Farm Property

Introduction

This technical memorandum presents a summary of the results of the annual long-term groundwater monitoring event conducted October 24, 2025 at the Former Chevron Tank Farm Property (Site). The Site is located in Evergreen Rotary Park at 1301 Highland Avenue in Bremerton, Washington (Figure 1). Long-term monitoring is being performed under the Site's Agreed Order (Number DE-12TCPHQ-9509) and in accordance with the Site's Long-Term Groundwater Monitoring Plan (LTGMP; Parametrix 2013). Data from these long-term monitoring events is intended to be used to evaluate groundwater quality trends at the Site and confirm the continued occurrence of natural attenuation related to remedial actions and characterization completed by the City between 2007 and 2012.

Background

The Site operated as a 1.4-acre bulk fuel facility from 1946 through 1988. Products handled at the facility consisted primarily of diesel and gasoline. Originally, the facility included an upland area containing twelve large above-ground storage tanks (ASTs). Nearshore areas of the site were used for fuel loading and offloading operations. Portions of the nearshore area consist of fill placed into Smith Cove between 1946 and 1963. A detailed site map is provided on Figure 2. Petroleum contamination and free-phase liquids were discovered at the Site during demolition activities in 1988. The City purchased the property in 2005 for planned redevelopment and incorporation into Evergreen Rotary Park. The City performed a Remedial Investigation/Feasibility Study (RI/FS) and Interim Cleanup Actions which included removal of hot spot contaminated soils and in-situ chemical oxidation using soil mixing with Regenox® and injection of Oxygen-Release Compound Advanced®. In 2010, sampling data indicated natural attenuation was occurring and Ecology and the City developed a long-term monitoring plan for the Site.

Monitoring Wells

The ten monitoring wells currently used for long term monitoring at the Site include:

MW-4R	MW-10R	MW-11	MW-13R	MW-20R
MW-21R	MW-22R	MW-25	MW-26R	MW-27

Monitoring well logs are attached.

Contaminants of Concern

The primary contaminants of concern (COCs) for the Site include gasoline-, diesel-, and oil-range total petroleum hydrocarbons (TPH), benzene (B), toluene (T), ethylbenzene (E), and xylenes (X).

Groundwater Sampling Activities

Groundwater samples were collected on October 24, 2025 using a peristaltic pump and low-flow sampling techniques. Samples were successfully collected from one of the ten designated long-term monitoring wells. The remaining nine wells were apparently dry and did not produce enough groundwater for sample collection (no more than several milliliters per well).

Prior to the start of sampling, all wells were opened and allowed to equilibrate with atmospheric pressure. The potentiometric surface observed for this event based on measurements taken during sampling is displayed on Figure 2. The gradient observed at the Site shows groundwater flows primarily westerly and northerly away from the contaminated groundwater plume. Following measurement of groundwater levels, each of the wells was purged with a peristaltic pump with new polyethylene tubing until measured water quality parameters of pH, conductivity, dissolved oxygen (DO), temperature, and oxidation-reduction potential (ORP) stabilized according to criteria specified in the LTGMP. Water levels were also measured during purging to record drawdown in accordance with low-flow sampling techniques.

Wells MW-4R, MW -10R, MW-13R, and MW-26R all went dry during purging and were not sampled. A repeat visit to attempt sampling was conducted the following week with no change in condition. It is unclear what caused these wells to be dry, as previous assumptions were that these wells are plugged with iron bacteria based on observations made during sampling. Iron bacteria was not noted at sampling and mechanical cleaning efforts (brushing) and distilled water flushing were made in the months prior to sampling.

Upon well stabilization, groundwater samples were collected in clean, laboratory-supplied containers. Up to three volatile organic analysis (VOA) containers preserved with hydrochloric acid were filled for gasoline-range TPH and BTEX; two 500 milliliter (mL) glass amber containers preserved with hydrochloric acid were filled for diesel-range and oil-range TPH; two to three 500-mL polyethylene containers were filled for nitrate, sulfate, alkalinity, and chloride; three VOC containers preserved with hydrochloric acid were filled for dissolved methane; one 500 mL container preserved with hydrochloric acid was filled for total ferrous iron; and a 45-micron filter was placed on the tubing to fill one 500 mL polyethylene container for dissolved manganese. The final set of measurements for water quality stabilization parameters are provided in Table 1. Field sampling forms related to the sample collection are attached.

Groundwater samples were submitted to Spectra Laboratories of Poulsbo, Washington, for chemical analysis of gasoline-range TPH and BTEX, diesel- and lube oil-range TPH with and without silica gel treatment, and general chemistry parameters (including dissolved methane).

City of Bremerton

QA/QC for Event 16

Sulfate and total iron analysis was subcontracted to AMTest Laboratories of Kirkland, Washington. Due to a gap in information pass down, several constituents were not sampled in 2025. In 2026, samples will be collected following historical practice or acceptable deviation. A summary of analytical results is presented in Table 1. An analytical data validation review memorandum for the monitoring event and laboratory reports is attached.

Results

Table 1 summarizes the results of the sampling event compared to Model Toxics Control Act (MTCA; Chapter 173-340 WAC) Method A cleanup levels and MTCA Method B cleanup levels for protection of Marine Aquatic Life (Ecology 2018, 2020). The MTCA Method B cleanup values are presented for evaluation of the groundwater to surface water pathway and effects to marine life. Analysis for diesel- and oil-range TPH was completed both with and without silica gel treatment.

MTCA Method A cleanup levels were exceeded for the following analytes:

- Gasoline-range TPH: MW-22R
- Benzene: MW-22R

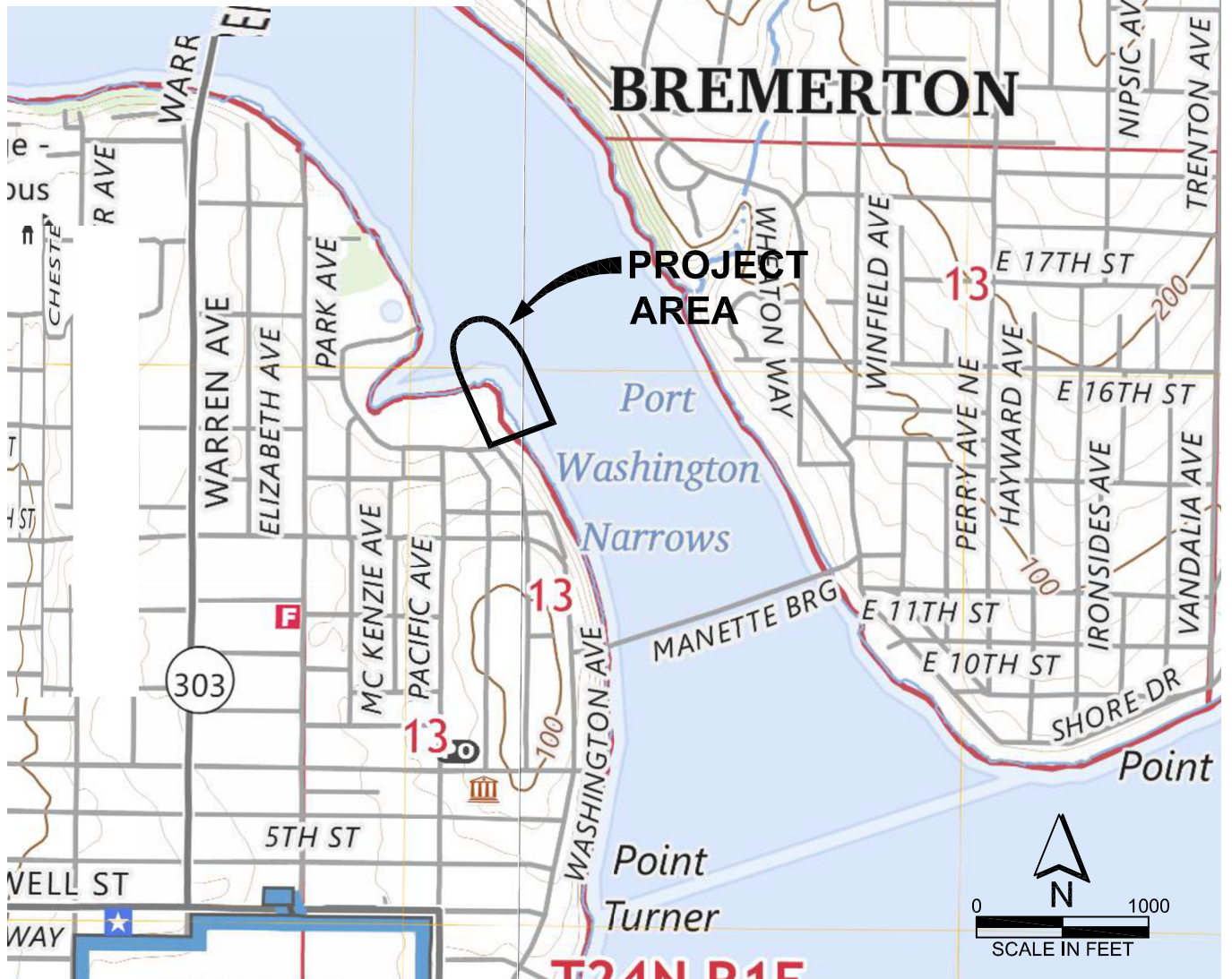
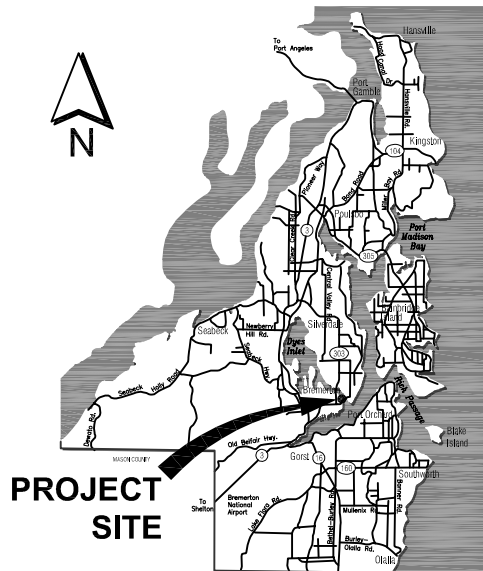
No MTCA Method B cleanup levels for protection of Marine Aquatic Life were exceeded.

Comparison of the diesel- and oil-range organics concentrations with and without silica gel cleanup indicates the majority of the contaminants at the Site consist of weathered petroleum compounds (polar compounds) from degraded diesel and oil. This is consistent with historical cleanup actions, which were designed to degrade the Site's petroleum contaminants using in-situ chemical oxidation. Concentration trends versus time for COCs are attached.

Discussion

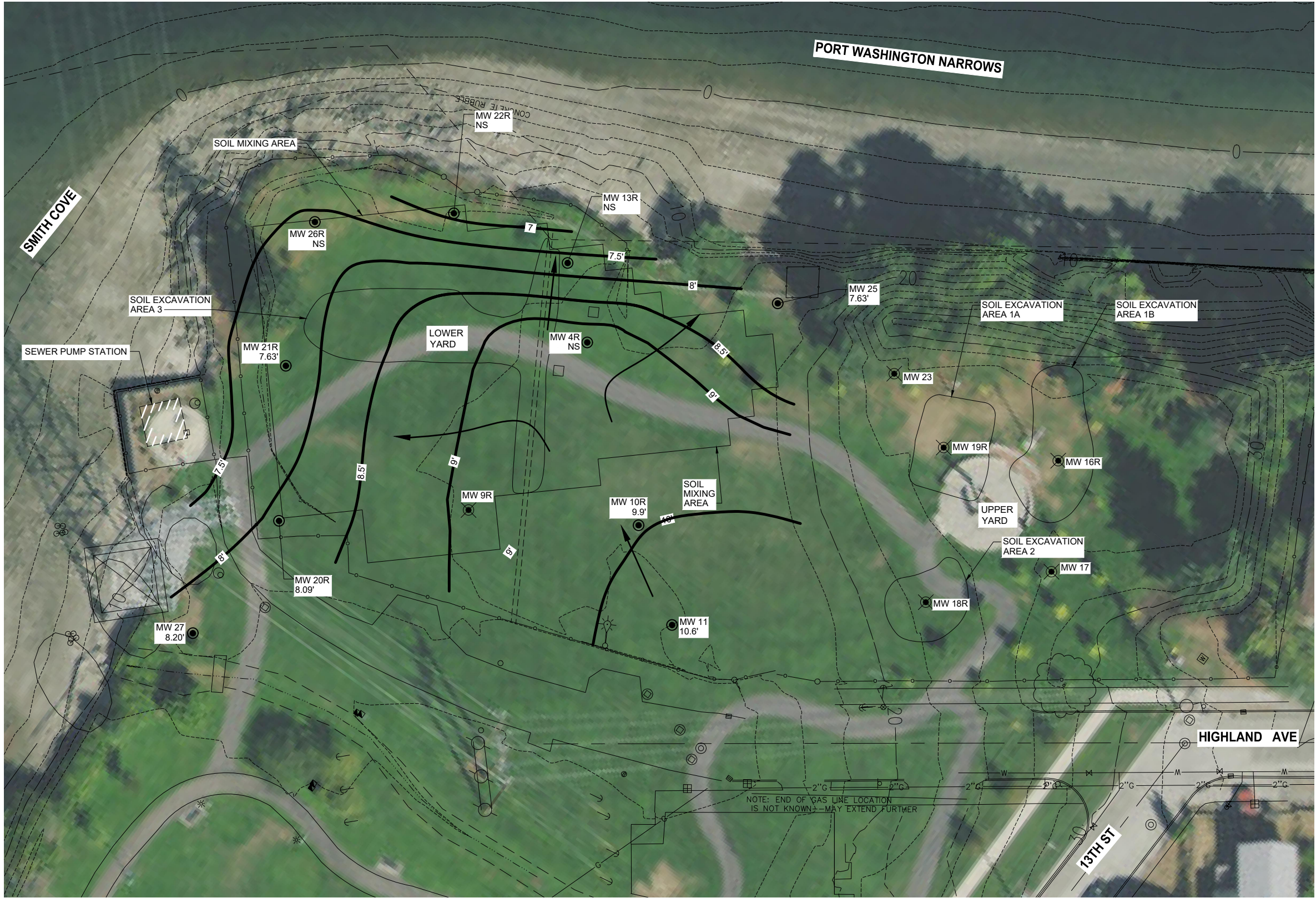
The data shows relatively low degradation rates at the Site with contaminant concentrations appearing to stabilize from 2015 through the present. Aerobic respiration appears to be on-going with dissolved oxygen concentrations being measured around 7.8 mg/L in the sampled well.

Unsampled wells will be evaluated in 2026 to see if there were extraneous issues or if new sampling wells need to be dug. Wells plugged with iron bacteria or other obstruction will be cleaned by scrubbing with an appropriate brush, surging with a surge block, and development using a peristaltic pump. Deionized water will be introduced to aid on surging as needed. Action will occur prior to the 2026 sampling event.



CITY OF BREMERTON
 DEPARTMENT OF PUBLIC WORKS & UTILITIES
 ENGINEERING DIVISION

Figure 1
Former Chevron Property
Long-Term Groundwater Monitoring
Project Vicinity



LEGEND:

EXISTING CHAIN LINK FENCE

EXISTING MONITORING WELL

SOIL EXCAVATION AREA

MW 14

WELL REMOVED OR DESTROYED

MW 19R

LONG TERM MONITORING WELL

5.08'

GROUNDWATER SURFACE ELEVATION

NS

NOT SAMPLED

R

INDICATES REPLACEMENT WELL

GROUNDWATER FLOW DIRECTION

9

GROUNDWATER SURFACE ELEVATION CONTOUR

- GENERAL NOTES:
1.

CONTOUR DATUM NAVD 88 FROM CURRENT AND HISTORICAL SAMPLING.
2.

GROUNDWATER ELEVATION MEASUREMENTS COLLECTED DURING SAMPLING.



CITY OF BREMERTON

DEPARTMENT OF
PUBLIC WORKS & UTILITIES

ENGINEERING DIVISION

FIGURE 2

FORMER CHEVRON PROPERTY

LONG-TERM GROUNDWATER MONITORING EVENT 16

SITE DETAIL MAP - JULY/AUGUST 2024

Spectra Labs - Kitsap, LLC (Poulsbo) received samples for City of Bremerton - WWTP on Friday, October 24, 2025 at 3:20 pm. Unless otherwise noted, all samples were received in good condition and were tested in accordance with the laboratory's quality control procedures. A summary of the samples received are outlined below.

Sample No.	Description	Location	Sampled
256917-01	Evergreen Park Sampling	MW-26R	10/24/2025 10:23

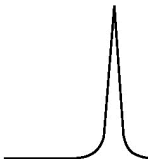
This report package contains laboratory sample results and any attachments listed below. If you have any questions please call (360) 779-5141 or email us at www.spectra-lab.com.

Attachments

- 01)
- 02)
- 03)

This report is issued solely for the use of the person or company to whom it is addressed. Any use, copying or disclosure other than by the intended recipient is unauthorized. If you have received this report in error, please notify the sender immediately at 360-443-7845 and destroy this report promptly.

These results relate only to the items tested and the sample(s) as received by the laboratory. This report shall not be reproduced except in full, without prior express written approval by Spectra Laboratories.



SPECTRA Laboratories - Kitsap

...Where experience matters

Analytical Report

City of Bremerton - WWTP
1600 Oyster Bay Ave S
Bremerton, WA 98312

Project Evergreen Park Sampling
Sampler Will Riley
Date Received 10/24/2025

Client ID: MW-26R

Lab No: 256917-01

Sample Date: 10/24/25

Analyte	Method	Result	Qualifiers	Units	PQL	Analysis Date	Analyst
Diesel	NWTPH-Dx	See Sub Lab Rpeort	---		---	11/14/2025	055
Iron	EPA 200.7	<0.03	---	ug/L	---	11/6/2025	066
Arsenic	EPA 200.8 UCT	<2.0	DL2	ug/L	2	11/7/2025	055
Barium	EPA 200.8	62.9	DL2	ug/L	5	11/7/2025	055
Chromium	EPA 200.8	13.9	DL2	ug/L	5	11/14/2025	055
Mercury	EPA 7470 A	<0.10	---	ug/L	0.1	11/6/2025	055
Cadmium	EPA 200.8 UCT	<1.0	DL2	ug/L	1	11/7/2025	055
Lead	EPA 200.8	3.64	DL2	ug/L	2	11/7/2025	055
Selenium	EPA 200.8 UCT	<10	DL2	ug/L	10	11/7/2025	055
Silver	EPA 200.8	<2.0	DL2	ug/L	2	11/7/2025	055
NWTPH-Gx w/ BTEX	NWTPH-Gx w/ BTEX	See sub Lab Report	---		---	11/14/2025	055
Alkalinity	SM 2320 B	138	---	mg/l as CaCO3	1	11/7/2025	055
Chloride	SM 4500 Cl E	15,900	---	mg/L	459	11/3/2025	MS
Nitrate-N	SM 4500 NO3 F	0.19	PR1	mg/L	0.15	10/27/2025	ZAJ
Sulfate	EPA 300.0	1,980	---	mg/L	---	11/5/2025	066

066: Analysis performed by AMTest

055: Analysis performed by Analytical Resources, LLC Lab-Sample#:25J0568

Lab Qualifiers Comments:

DL2 = The reported value is from a dilution.

PR1 = Preserved and/or digested prior to analysis, all holding times have been met.

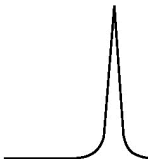
Approved By



Jessica Donaldson
Client Services and Project Manager

This report is issued solely for the use of the person or company to whom it is addressed. Any use, copying or disclosure other than by the intended recipient is unauthorized. If you have received this report in error, please notify the sender immediately at 360-779-5141 and destroy this report promptly.

These results relate only to the items tested and the sample(s) as received by the laboratory. This report shall not be reproduced except in full, without prior express written approval by Spectra Laboratories.



SPECTRA Laboratories - Kitsap

...Where experience matters

Analytical Report

City of Bremerton - WWTP
1600 Oyster Bay Ave S
Bremerton, WA 98312

Project Evergreen Park Sampling
Sampler Will Riley
Date Received 10/24/2025

QC Results Summary

	Test	Test Date	Type of QC	Result
12308	Nitrate-N	10/27/2025	Blank: Blank	0.0
			Matrix Spike Rec	79.9
			Matrix Spike Rec Dup	127.9
			Matrix Spike RPD	46.2
			Standard: LCS	Pass
12338	Chloride	11/3/2025	Blank: Blank	0.8
			Blank: Blank	0.3
			Matrix Spike Rec	94.1
			Matrix Spike Rec Dup	93.5
			Matrix Spike RPD	0.7
			Standard: LCS	Pass

Approved By



Jessica Donaldson
Client Services and Project Manager

This report is issued solely for the use of the person or company to whom it is addressed. Any use, copying or disclosure other than by the intended recipient is unauthorized. If you have received this report in error, please notify the sender immediately at 360-779-5141 and destroy this report promptly.

These results relate only to the items tested and the sample(s) as received by the laboratory. This report shall not be reproduced except in full, without prior express written approval by Spectra Laboratories.

Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com



***Professional
Analytical
Services***

November 07, 2025

Spectra Laboratories
26276 Twelve Trees Ln NW Ste. C
Poulsbo, WA 98370
Attention: Jessica Donaldson

Project: Spectra Laboratories (ENV)

Project Number: [none]

COC Number:

Jessica Donaldson:

Enclosed please find the analytical data for your Spectra Laboratories (ENV) project.

Your sample(s) were received on Tuesday, October 28, 2025 and properly maintained prior to the subsequent analysis. The analytical procedures used at AmTest are well documented and are typically derived from the protocols of the EPA, USDA, FDA, Standard Methods or the Army Corps of Engineers.

Following the analytical results you will find the Quality Control (QA/QC) results.

Please note that the detection limits that are listed in the body of the report refer to the Practical Quantitation Limits (PQL's), as opposed to the Method Detection Limits (MDL's).

If you should have any questions pertaining to the data package, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Aaron Young". The signature is written in a cursive, flowing style.

Seth Farb For Aaron Young
President
aarony@amtestlab.com

Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com



**Professional
Analytical
Services**

ANALYSIS REPORT

Date Received: 10/28/25
Date Reported: 11/07/25

Spectra Laboratories
26276 Twelve Trees Ln NW Ste. C
Poulsbo, WA 98370
Attention: Jessica Donaldson
Project Name: Spectra Laboratories (ENV)
Project #: [none]

Reported Samples

Lab ID	Sample	Matrix	Qualifiers	Date Sampled	Date Received
A25J0725-01	MW-26R	Water		10/24/2025	10/28/2025

Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com



**Professional
Analytical
Services**

ANALYSIS REPORT

Date Received: 10/28/25
Date Reported: 11/07/25

Spectra Laboratories
26276 Twelve Trees Ln NW Ste. C
Poulsbo, WA 98370
Attention: Jessica Donaldson
Project Name: Spectra Laboratories (ENV)
Project #: [none]

AMTEST Identification Number: A25J0725-01
Client Identification: MW-26R
Sampling Date: 10/24/25 10:23

Anions by EPA Method 300.0

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
Sulfate	1,980	mg/L	D	100	EPA 300.0_2.1_1993	AL	11/05/2025

Metals by EPA 200 Series Methods

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
Total Iron	ND	mg/L	U	0.030	EPA 200.7_4.4_1994	LF	11/06/2025



ANALYSIS REPORT

Date Received: 10/28/25
Date Reported: 11/07/25

Spectra Laboratories
26276 Twelve Trees Ln NW Ste. C
Poulsbo, WA 98370
Attention: Jessica Donaldson
Project Name: Spectra Laboratories (ENV)
Project #: [none]

Quality Control

Anions by EPA Method 300.0

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BCK0080 - No Prep - WetChem										
LCS (BCK0080-BS1)					Prepared & Analyzed: 11/05/25					
Sulfate	1.02		0.10	mg/L	1.000		102%	90-110%		
Calibration Blank (BCK0080-CCB1)					Prepared & Analyzed: 11/05/25					
Sulfate	ND	U		mg/L						
Calibration Blank (BCK0080-CCB2)					Prepared & Analyzed: 11/05/25					
Sulfate	ND	U		mg/L						
Calibration Blank (BCK0080-CCB3)					Prepared & Analyzed: 11/05/25					
Sulfate	ND	U		mg/L						
Calibration Blank (BCK0080-CCB4)					Prepared & Analyzed: 11/05/25					
Sulfate	ND	U		mg/L						
Calibration Blank (BCK0080-CCB5)					Prepared: 11/05/25 Analyzed: 11/06/25					
Sulfate	ND	U		mg/L						
Calibration Check (BCK0080-CCV1)					Prepared & Analyzed: 11/05/25					
Sulfate	2.03		0.10	mg/L	2.000		101%	85-115%		
Calibration Check (BCK0080-CCV2)					Prepared & Analyzed: 11/05/25					
Sulfate	2.03		0.10	mg/L	2.000		101%	85-115%		
Calibration Check (BCK0080-CCV3)					Prepared & Analyzed: 11/05/25					
Sulfate	2.00		0.10	mg/L	2.000		100%	85-115%		
Calibration Check (BCK0080-CCV4)					Prepared: 11/05/25 Analyzed: 11/06/25					
Sulfate	2.00		0.10	mg/L	2.000		100%	85-115%		
Calibration Check (BCK0080-CCV5)					Prepared: 11/05/25 Analyzed: 11/06/25					
Sulfate	2.00		0.10	mg/L	2.000		100%	85-115%		
Duplicate (BCK0080-DUP1)			Source: A25J0722-01			Prepared & Analyzed: 11/05/25				
Sulfate	18.7	D	1.00	mg/L		18.5			1	20
Duplicate (BCK0080-DUP2)			Source: A25K0075-01RX1			Prepared: 11/05/25 Analyzed: 11/06/25				
Sulfate	14.5		0.10	mg/L					200	20



ANALYSIS REPORT

Date Received: 10/28/25
Date Reported: 11/07/25

Spectra Laboratories
26276 Twelve Trees Ln NW Ste. C
Poulsbo, WA 98370
Attention: Jessica Donaldson
Project Name: Spectra Laboratories (ENV)
Project #: [none]

Quality Control
(Continued)

Anions by EPA Method 300.0 (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
---------	--------	------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------

Batch: BCK0080 - No Prep - WetChem (Continued)

MRL Check (BCK0080-MRL1)					Prepared & Analyzed: 11/05/25					
Sulfate	0.08	J	0.10	mg/L	0.1000		76%	50-150%		
Matrix Spike (BCK0080-MS1)					Prepared & Analyzed: 11/05/25					
			Source: A25J0722-01							
Sulfate	39.3	D	2.00	mg/L	20.00	18.5	104%	80-120%		
Reference (BCK0080-SRM1)					Prepared & Analyzed: 11/05/25					
Sulfate	4.99		0.10	mg/L	5.000		100%	0-200%		

Quality Control
(Continued)

Metals by EPA 200 Series Methods

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
---------	--------	------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------

Batch: BCK0038 - EPA 200.7 Digested

Blank (BCK0038-BLK1)					Prepared: 11/04/25 Analyzed: 11/06/25					
Iron	ND	U	0.030	mg/L						
Blank (BCK0038-BLK2)					Prepared: 11/04/25 Analyzed: 11/06/25					
Iron	ND	U	0.030	mg/L						
LCS (BCK0038-BS1)					Prepared: 11/04/25 Analyzed: 11/06/25					
Iron	8.97		0.030	mg/L	9.000		100%	85-115%		
LCS (BCK0038-BS2)					Prepared: 11/04/25 Analyzed: 11/06/25					
Iron	8.78		0.030	mg/L	9.000		98%	85-115%		
Calibration Blank (BCK0038-CCB1)					Prepared: 11/04/25 Analyzed: 11/06/25					
Iron	ND	U		mg/L						
Calibration Blank (BCK0038-CCB2)					Prepared: 11/04/25 Analyzed: 11/06/25					
Iron	ND	U		mg/L						
Calibration Blank (BCK0038-CCB3)					Prepared: 11/04/25 Analyzed: 11/06/25					
Iron	0.000001			mg/L						



ANALYSIS REPORT

Date Received: 10/28/25
Date Reported: 11/07/25

Spectra Laboratories
26276 Twelve Trees Ln NW Ste. C
Poulsbo, WA 98370
Attention: Jessica Donaldson
Project Name: Spectra Laboratories (ENV)
Project #: [none]

Quality Control
(Continued)

Metals by EPA 200 Series Methods (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BCK0038 - EPA 200.7 Digested (Continued)										
Calibration Blank (BCK0038-CCB4)					Prepared: 11/04/25 Analyzed: 11/06/25					
Iron	ND	U		mg/L						
Calibration Check (BCK0038-CCV1)					Prepared: 11/04/25 Analyzed: 11/06/25					
Iron	2.17		0.030	mg/L	2.000		109%	85-115%		
Calibration Check (BCK0038-CCV2)					Prepared: 11/04/25 Analyzed: 11/06/25					
Iron	2.08		0.030	mg/L	2.000		104%	85-115%		
Calibration Check (BCK0038-CCV3)					Prepared: 11/04/25 Analyzed: 11/06/25					
Iron	1.96		0.030	mg/L	2.000		98%	85-115%		
Calibration Check (BCK0038-CCV4)					Prepared: 11/04/25 Analyzed: 11/06/25					
Iron	1.93		0.030	mg/L	2.000		97%	85-115%		
Matrix Spike (BCK0038-MS1)		Source: A25J0760-01			Prepared: 11/04/25 Analyzed: 11/06/25					
Iron	9.12		0.030	mg/L	9.000	0.140	100%	70-130%		
Matrix Spike (BCK0038-MS2)		Source: A25J0774-04			Prepared: 11/04/25 Analyzed: 11/06/25					
Iron	9.39		0.030	mg/L	9.000	0.077	103%	70-130%		
Matrix Spike (BCK0038-MS3)		Source: A25J0808-04			Prepared: 11/04/25 Analyzed: 11/06/25					
Iron	8.30		0.030	mg/L	9.000	0.124	91%	70-130%		
Matrix Spike (BCK0038-MS4)		Source: A25K0001-01			Prepared: 11/04/25 Analyzed: 11/06/25					
Iron	8.67		0.030	mg/L	9.000	0.365	92%	70-130%		
Matrix Spike Dup (BCK0038-MSD1)		Source: A25J0760-01			Prepared: 11/04/25 Analyzed: 11/06/25					
Iron	8.91		0.030	mg/L	9.000	0.140	97%	70-130%	2	15
Matrix Spike Dup (BCK0038-MSD2)		Source: A25J0774-04			Prepared: 11/04/25 Analyzed: 11/06/25					
Iron	9.33		0.030	mg/L	9.000	0.077	103%	70-130%	0.6	15
Matrix Spike Dup (BCK0038-MSD3)		Source: A25J0808-04			Prepared: 11/04/25 Analyzed: 11/06/25					
Iron	8.92		0.030	mg/L	9.000	0.124	98%	70-130%	7	15
Matrix Spike Dup (BCK0038-MSD4)		Source: A25K0001-01			Prepared: 11/04/25 Analyzed: 11/06/25					
Iron	8.54		0.030	mg/L	9.000	0.365	91%	70-130%	1	15

Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com



Professional
Analytical
Services

ANALYSIS REPORT

Date Received: 10/28/25
Date Reported: 11/07/25

Spectra Laboratories
26276 Twelve Trees Ln NW Ste. C
Poulsbo, WA 98370
Attention: Jessica Donaldson
Project Name: Spectra Laboratories (ENV)
Project #: [none]

Quality Control
(Continued)

Metals by EPA 200 Series Methods (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
---------	--------	------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------

Batch: BCK0038 - EPA 200.7 Digested (Continued)

Am Test Inc.
13600 NE 126th Place Suite C
Kirkland, WA
(425) 885-1664
www.amtestlab.com



ANALYSIS REPORT

Professional
Analytical
Services

Date Received: 10/28/25
Date Reported: 11/07/25

Spectra Laboratories
26276 Twelve Trees Ln NW Ste. C
Poulsbo, WA 98370
Attention: Jessica Donaldson
Project Name: Spectra Laboratories (ENV)
Project #: [none]

Notes and Definitions

Item	Definition
U	The compound was analyzed for but was not detected (Non-detect) at or above the MRL/MDL.
D	The reported value is from a dilution.
Dry	Sample results reported on a dry weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.

SPECTRA Laboratories - Kitsap

...Where experience matters

26276 Twelve Trees Ln NW Ste. C
Poulsbo, WA 98370
(360) 779-5141

A 25 J 0 7 2 5 - 0 1

Chain of Custody - AMTest

Report To Spectra Lab - Kitsap, Poulsbo

Date Received 10/24/2025
Date Due 11/06/2025

Project
Lab No

	Signature	Company	Date	Time		Signature	Company	Date	Time
Relinquish	AS	Spectra Poulsbo	10/28	1000	Relinquish	AS	Courier	10/28	1410
Receive	JS		10/28	1100	Receive	JS	Amtest	10/28/25	1414
Receive					Receive				
Receive					Receive				

PO Sample No.	256917-01	System ID No		Source Number(s)	
Date/Time Collect	10/24/2025 10:23	System Name	Evergreen Park Sampling	Sample Location	MMW-26R
System Group		Sample Type	Water		
Sample Purpose		Composition			
County		Sampler:	Will Riley		

Test Requested Iron
Sulfate

2.0°



Analytical Resources, LLC
Analytical Chemists and Consultants
Tukwila, WA

11 November 2025

Jessica Donaldson
Spectra Laboratories-Kitsap Poulsbo
26276 12 Trees Ln NW Ste C
Poulsbo, WA 98370

RE: General Analyses (256917)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
25J0568

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory

Rowan Miller For Randa Ross, Project Manager



25J0568

26276 Twelve Trees Ln NW Ste. C
 Poulsbo, WA 98370
 (360) 779-5141

SPECTRA Laboratories - Kitsap

...Where experience matters

Chain of Custody - Analytical Resources, LLC

Report To Spectra Lab - Kitsap, Poulsbo

Date Received 10/24/2025

Date Due 11/06/2025

Project
Lab No

	Signature	Company	Date	Time		Signature	Company	Date	Time
Relinquish	AB	Spectra Poulsbo	10/28	1000	Relinquish		Courier		
Receive	TAB		10/28	1045	Receive				
Receive	SA*	ARI	10/28	1240	Receive				
Receive					Receive				

PO Sample No.	256917-01	System ID No		Source Number(s)	
Date/Time Collect	10/24/2025 10:23	System Name	Evergreen Park Sampling	Sample Location	MW-26R
System Group		Sample Type	Water		
Sample Purpose		Composition			
County		Sampler:	Will Riley		

Test Requested Diesel -
 Arsenic
 Barium
 Chromium
 Mercury
 Cadmium
 Lead
 Selenium
 Silver
 NWTPH-Gx w/ BTEX -
 Alkalinity -

25J0568

SPECTRA Laboratories - Kitsap*...Where experience matters*

26276 Twelve Trees Ln NW Ste. C
 Poulsbo, WA 98370
 (360) 779-5141

Chain of Custody - Analytical Resources, LLC

Report To Spectra Lab - Kitsap, Poulsbo

Date Received 10/24/2025

Date Due 11/06/2025

Project
Lab No

	Signature	Company	Date	Time		Signature	Company	Date	Time
Relinquish	AB	Spectra Poulsbo	10/28	1000	Relinquish		Courier		
Receive	TAR		10/28	1045	Receive				
Receive	*				Receive				
Receive					Receive				

PO Sample No.	256917-01	System ID No		Source Number(s)	
Date/Time Collect	10/24/2025 10:23	System Name	Evergreen Park Sampling	Sample Location	MW-26R
System Group		Sample Type	Water		
Sample Purpose		Composition			
County		Sampler:	Will Riley		



Spectra Laboratories-Kitsap Poulsbo
26276 12 Trees Ln NW Ste C
Poulsbo WA, 98370

Project: General Analyses
Project Number: 256917
Project Manager: Jessica Donaldson

Reported:
11-Nov-2025 10:32

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
256917-01	25J0568-01	Water	24-Oct-2025 10:23	28-Oct-2025 12:40



Spectra Laboratories-Kitsap Poulsbo
26276 12 Trees Ln NW Ste C
Poulsbo WA, 98370

Project: General Analyses
Project Number: 256917
Project Manager: Jessica Donaldson

Reported:
11-Nov-2025 10:32

Work Order Case Narrative

Client: Spectra Laboratories-Kitsap Poulsbo

Project: General Analyses

Work Order: 25J0568

Sample receipt

Samples as listed on the preceding page were received 28-Oct-2025 12:40 under ARI work order 25J0568. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Volatiles - EPA Method SW8260D

The sample(s) were analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

Internal standard areas were within limits.

The surrogate percent recoveries were within control limits.

The method blank(s) were clean at the reporting limits.

The blank spike and blank spike duplicate (BS/LCS and BSD/LCSD) spike recoveries and relative percent difference (RPD) were within control limits.

Gasoline by NWTPH-q (GC/MS)

The sample(s) were analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

Internal standard areas were within limits.

The surrogate percent recoveries were within control limits.

The method blank(s) were clean at the reporting limits.

The blank spike and blank spike duplicate (BS/LCS and BSD/LCSD) spike recoveries and relative percent difference (RPD) were within control limits.

Diesel/Heavy Oil Range Organics - WA-Ecology Method NW-TPHDx

The sample(s) were extracted and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The surrogate percent recoveries were within control limits.

The method blank(s) were clean at the reporting limits.



Spectra Laboratories-Kitsap Poulsbo
26276 12 Trees Ln NW Ste C
Poulsbo WA, 98370

Project: General Analyses
Project Number: 256917
Project Manager: Jessica Donaldson

Reported:
11-Nov-2025 10:32

The blank spike (BS/LCS) percent recoveries were within control limits.

Total Metals - EPA Method 200.8/7470A

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations including interference checks were within method requirements for reported elements.

The method blank(s) were clean at the reporting limits.

The blank spike (BS/LCS) percent recoveries were within control limits.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The blank spike (BS/LCS) percent recoveries were within control limits.

The reference material (SRM) percent recoveries were within control limits.

WARNING: LOGGED HOLD TIME EXCEEDS ANALYSIS HOLD TIME IN LIMS!
Confirm samples have been preserved or frozen!

Labnumber	Analysis	Matrix	Defined HT	Logged HT
25J0568-01	TPH	Water	7	14



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Printed: 10/28/2025 3:35:24PM

WORK ORDER

25J0568

Client: Spectra Laboratories-Kitsap Poulsbo

Project Manager: Randa Ross

Project: General Analyses

Project Number: 256917

Preservation Confirmation

Container ID	Container Type	pH	pH Paper Lot#: <u>N600119</u>
25J0568-01 A	VOA Vial, Clear, 40 mL		
25J0568-01 B	VOA Vial, Clear, 40 mL		
25J0568-01 C	VOA Vial, Clear, 40 mL		
25J0568-01 D	VOA Vial, Clear, 40 mL		
25J0568-01 E	Glass NM, Amber, 500 mL, HCl	<u>L2P</u>	
25J0568-01 F	Glass NM, Amber, 500 mL, HCl	<u>I</u>	
25J0568-01 G	HDPE NM, 500 mL, 1:1 HNO3		
25J0568-01 H	HDPE NM, 250mL		

SA
Preservation Confirmed By

10/28/25
Date



Cooler Receipt Form

ARI Client: Spectra-KP
COC No(s): _____ (NA)
Assigned ARI Job No: 25J0568

Project Name: 256917
Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES (NO)
Were custody papers included with the cooler? (YES) NO
Were custody papers properly filled out (ink, signed, etc.) (YES) NO
Temperature of Cooler(s) (°C) Time 1240 1.5 Temp Gun ID#: 8117
Was a temperature blank included in the cooler? YES (NO)
Were coolers received between 0°- 6° (°C) (YES) NO
Was sufficient ice used (if appropriate)? NA (YES) NO
Cooler Accepted by: SA Date: 10/28/25 Time: 1240

Complete custody forms and attach all shipping documents

Log-In Phase:

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block N/A Other: _____
Are any samples that were out of temperature compliance documented in LIMS? YES (NO)
How were bottles sealed in plastic bags? Individually Grouped (Not)
Did all bottles arrive in good condition (unbroken)? (YES) NO
Were all bottle labels complete and legible? (YES) NO
Did the number of containers listed on COC match with the number of containers received? (YES) NO
Did all bottle labels and tags agree with custody papers? (YES) NO
Were all bottles used correct for the requested analyses? (YES) NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA (YES) NO
Were all VOC vials free of air bubbles? NA (YES) NO
Was sufficient amount of sample sent in each bottle? (YES) NO
Date VOC Trip Blank was made at ARI: (NA)
Were the sample(s) split by ARI? (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: SA Date: 10/28/25 Time: 1531 Labels checked by: SA

** Notify Project Manager of discrepancies or concerns **

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Spectra Laboratories-Kitsap Poulsbo
26276 12 Trees Ln NW Ste C
Poulsbo WA, 98370

Project: General Analyses
Project Number: 256917
Project Manager: Jessica Donaldson

Reported:
11-Nov-2025 10:32

256917-01
25J0568-01 (Water)

Volatile Organic Compounds

Method: EPA 8260D

Sampled: 10/24/2025 10:23

Instrument: NT20 Analyst: FCL

Analyzed: 10/28/2025 16:35

Sample Preparation:

Preparation Method: EPA 5030C (Purge and Trap)

Extract ID: 25J0568-01 B

Preparation Batch: BNJ0510

Sample Size: 10 mL

Prepared: 10/28/2025

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Benzene	71-43-2	1	0.10	0.20	ND	ug/L	U
Toluene	108-88-3	1	0.10	0.20	ND	ug/L	U
Ethylbenzene	100-41-4	1	0.10	0.20	ND	ug/L	U
m,p-Xylene	179601-23-1	1	0.20	0.40	ND	ug/L	U
o-Xylene	95-47-6	1	0.10	0.20	ND	ug/L	U
Surrogate: 1,2-Dichloroethane-d4				80-129 %	116	%	
Surrogate: Toluene-d8				80-120 %	98.4	%	
Surrogate: 4-Bromofluorobenzene				80-120 %	93.9	%	
Surrogate: 1,2-Dichlorobenzene-d4				80-120 %	109	%	



Spectra Laboratories-Kitsap Poulsbo
26276 12 Trees Ln NW Ste C
Poulsbo WA, 98370

Project: General Analyses
Project Number: 256917
Project Manager: Jessica Donaldson

Reported:
11-Nov-2025 10:32

256917-01
25J0568-01 (Water)

Volatile Organic Compounds

Method: NWTPHg
Instrument: NT20 Analyst: FCL

Sampled: 10/24/2025 10:23

Analyzed: 10/28/2025 16:35

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap)
Preparation Batch: BNJ0510 Sample Size: 10 mL
Prepared: 10/28/2025 Final Volume: 10 mL

Extract ID: 25J0568-01 B

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-Nap)	GRO	1	100	ND	ug/L	U
Surrogate: Toluene-d8			80-120 %	98.4	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	93.9	%	



Spectra Laboratories-Kitsap Poulsbo
26276 12 Trees Ln NW Ste C
Poulsbo WA, 98370

Project: General Analyses
Project Number: 256917
Project Manager: Jessica Donaldson

Reported:
11-Nov-2025 10:32

256917-01
25J0568-01 (Water)

Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 10/24/2025 10:23

Instrument: FID4 Analyst: VD

Analyzed: 11/06/2025 16:42

Sample Preparation:

Preparation Method: EPA 3510C SepF

Extract ID: 25J0568-01 E 01

Preparation Batch: BNK0048

Sample Size: 500 mL

Prepared: 11/05/2025

Final Volume: 1 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	0.100	0.126	mg/L	
HC ID: DRO						
Motor Oil Range Organics (C24-C38)	RRO	1	0.200	ND	mg/L	U
Surrogate: o-Terphenyl			50-150 %	95.8	%	



Spectra Laboratories-Kitsap Poulsbo
26276 12 Trees Ln NW Ste C
Poulsbo WA, 98370

Project: General Analyses
Project Number: 256917
Project Manager: Jessica Donaldson

Reported:
11-Nov-2025 10:32

256917-01
25J0568-01 (Water)

Metals and Metallic Compounds

Method: EPA 200.8

Sampled: 10/24/2025 10:23

Instrument: ICPMS1 Analyst: HAL

Analyzed: 11/07/2025 21:53

Sample Preparation:

Preparation Method: REN - EPA 3010A M

Extract ID: 25J0568-01 G

Preparation Batch: BNK0052

Sample Size: 25 mL

Prepared: 11/05/2025

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection	Reporting	Result	Units	Notes
			Limit	Limit			
Arsenic UCT	7440-38-2	10	1.00	2.00	1.19	ug/L	J, D
Barium	7440-39-3	10	2.50	5.00	62.9	ug/L	D
Cadmium UCT	7440-43-9	10	0.500	1.00	ND	ug/L	U
Chromium	7440-47-3	10	3.75	5.00	13.9	ug/L	D
Lead	7439-92-1	10	1.00	2.00	6.34	ug/L	D
Selenium UCT	7782-49-2	10	5.00	10.0	ND	ug/L	U
Silver	7440-22-4	10	1.00	2.00	ND	ug/L	U



Spectra Laboratories-Kitsap Poulsbo
26276 12 Trees Ln NW Ste C
Poulsbo WA, 98370

Project: General Analyses
Project Number: 256917
Project Manager: Jessica Donaldson

Reported:
11-Nov-2025 10:32

256917-01
25J0568-01 (Water)

Metals and Metallic Compounds

Method: EPA 7470A

Sampled: 10/24/2025 10:23

Instrument: HYDRA Analyst: ML

Analyzed: 11/06/2025 14:39

Sample Preparation:

Preparation Method: TWM EPA 7470A

Extract ID: 25J0568-01 G

Preparation Batch: BNJ0581

Sample Size: 20 mL

Prepared: 10/31/2025

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Mercury	7439-97-6	1	0.013	0.100	0.035	ug/L	J



Spectra Laboratories-Kitsap Poulsbo
26276 12 Trees Ln NW Ste C
Poulsbo WA, 98370

Project: General Analyses
Project Number: 256917
Project Manager: Jessica Donaldson

Reported:
11-Nov-2025 10:32

256917-01
25J0568-01 (Water)

Wet Chemistry

Method: SM 2320 B-11

Sampled: 10/24/2025 10:23

Instrument: Accumet AB150 Analyst: LERB

Analyzed: 11/07/2025 12:11

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25J0568-01 H

Preparation Batch: BNK0105

Sample Size: 100 mL

Prepared: 11/06/2025

Final Volume: 100 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Alkalinity, Total		1	1.00	1.00	138	mg/L CaCO ₃	



Spectra Laboratories-Kitsap Poulsbo
26276 12 Trees Ln NW Ste C
Poulsbo WA, 98370

Project: General Analyses
Project Number: 256917
Project Manager: Jessica Donaldson

Reported:
11-Nov-2025 10:32

Analysis by: Analytical Resources, LLC

Volatile Organic Compounds - Quality Control

Batch BNJ0510 - EPA 8260D in Water

Instrument: NT20 Analyst: FCL

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BNJ0510-BLK1)											
						Prepared: 28-Oct-2025 Analyzed: 28-Oct-2025 13:08					
Benzene	ND	0.10	0.20	ug/L							U
Toluene	ND	0.10	0.20	ug/L							U
Ethylbenzene	ND	0.10	0.20	ug/L							U
m,p-Xylene	ND	0.20	0.40	ug/L							U
o-Xylene	ND	0.10	0.20	ug/L							U
Surrogate: 1,2-Dichloroethane-d4	6.60			ug/L	6.25		106	80-129			
Surrogate: Toluene-d8	6.10			ug/L	6.25		97.6	80-120			
Surrogate: 4-Bromofluorobenzene	5.70			ug/L	6.25		91.2	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	5.20			ug/L	5.00		104	80-120			
LCS (BNJ0510-BS1)											
						Prepared: 28-Oct-2025 Analyzed: 28-Oct-2025 11:35					
Benzene	10.2	0.10	0.20	ug/L	10.0		102	80-120			
Toluene	9.60	0.10	0.20	ug/L	10.0		96.0	80-120			
Ethylbenzene	10.6	0.10	0.20	ug/L	10.0		106	80-120			
m,p-Xylene	21.1	0.20	0.40	ug/L	20.0		106	80-121			
o-Xylene	10.7	0.10	0.20	ug/L	10.0		108	80-121			
Surrogate: 1,2-Dichloroethane-d4	6.58			ug/L	6.25		105	80-129			
Surrogate: Toluene-d8	6.12			ug/L	6.25		98.0	80-120			
Surrogate: 4-Bromofluorobenzene	6.11			ug/L	6.25		97.7	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	5.23			ug/L	5.00		105	80-120			
LCS Dup (BNJ0510-BSD1)											
						Prepared: 28-Oct-2025 Analyzed: 28-Oct-2025 12:22					
Benzene	11.4	0.10	0.20	ug/L	10.0		114	80-120	NR	30	
Toluene	10.7	0.10	0.20	ug/L	10.0		107	80-120	NR	30	
Ethylbenzene	11.4	0.10	0.20	ug/L	10.0		114	80-120	NR	30	
m,p-Xylene	22.6	0.20	0.40	ug/L	20.0		113	80-121	NR	30	
o-Xylene	11.7	0.10	0.20	ug/L	10.0		117	80-121	NR	30	
Surrogate: 1,2-Dichloroethane-d4	6.41			ug/L	6.25		103	80-129			
Surrogate: Toluene-d8	6.17			ug/L	6.25		98.8	80-120			
Surrogate: 4-Bromofluorobenzene	6.04			ug/L	6.25		96.6	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	5.18			ug/L	5.00		104	80-120			



Spectra Laboratories-Kitsap Poulsbo
26276 12 Trees Ln NW Ste C
Poulsbo WA, 98370

Project: General Analyses
Project Number: 256917
Project Manager: Jessica Donaldson

Reported:
11-Nov-2025 10:32

Analysis by: Analytical Resources, LLC

Volatile Organic Compounds - Quality Control

Batch BNJ0510 - NWTPHg in Water

Instrument: NT20 Analyst: FCL

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BNJ0510-BLK2)		Prepared: 28-Oct-2025 Analyzed: 28-Oct-2025 13:08								
Gasoline Range Organics (Tol-Nap)	ND	100	ug/L							U
Surrogate: Toluene-d8	6.10		ug/L	6.25		97.6	80-120			
Surrogate: 4-Bromofluorobenzene	5.70		ug/L	6.25		91.2	80-120			
LCS (BNJ0510-BS2)		Prepared: 28-Oct-2025 Analyzed: 28-Oct-2025 11:11								
Gasoline Range Organics (Tol-Nap)	991	100	ug/L	1000		99.1	72-128			
Surrogate: Toluene-d8	6.03		ug/L	6.25		96.5	80-120			
Surrogate: 4-Bromofluorobenzene	6.07		ug/L	6.25		97.1	80-120			
LCS Dup (BNJ0510-BSD2)		Prepared: 28-Oct-2025 Analyzed: 28-Oct-2025 11:58								
Gasoline Range Organics (Tol-Nap)	1090	100	ug/L	1000		109	72-128	NR	30	
Surrogate: Toluene-d8	6.00		ug/L	6.25		96.1	80-120			
Surrogate: 4-Bromofluorobenzene	5.97		ug/L	6.25		95.6	80-120			



Spectra Laboratories-Kitsap Poulsbo
26276 12 Trees Ln NW Ste C
Poulsbo WA, 98370

Project: General Analyses
Project Number: 256917
Project Manager: Jessica Donaldson

Reported:
11-Nov-2025 10:32

Analysis by: Analytical Resources, LLC

Petroleum Hydrocarbons - Quality Control

Batch BNK0048 - NWTPH-Dx in Water

Instrument: FID4 Analyst: VD

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BNK0048-BLK1)		Prepared: 05-Nov-2025 Analyzed: 06-Nov-2025 15:37								
Diesel Range Organics (C12-C24)	ND	0.100	mg/L							U
Motor Oil Range Organics (C24-C38)	ND	0.200	mg/L							U
Surrogate: o-Terphenyl	0.231		mg/L	0.224		103	50-150			
LCS (BNK0048-BS1)		Prepared: 05-Nov-2025 Analyzed: 06-Nov-2025 15:58								
Diesel Range Organics (C12-C24)	2.94	0.100	mg/L	3.00		97.9	56-120			
Motor Oil Range Organics (C24-C38)	3.01	0.200	mg/L	3.00		100	30-160			
Surrogate: o-Terphenyl	0.227		mg/L	0.224		101	50-150			
LCS Dup (BNK0048-BSD1)		Prepared: 05-Nov-2025 Analyzed: 06-Nov-2025 16:20								
Diesel Range Organics (C12-C24)	2.81	0.100	mg/L	3.00		93.6	56-120	4.43	30	
Motor Oil Range Organics (C24-C38)	2.78	0.200	mg/L	3.00		92.7	30-160	7.87	30	
Surrogate: o-Terphenyl	0.212		mg/L	0.224		94.8	50-150			



Spectra Laboratories-Kitsap Poulsbo
26276 12 Trees Ln NW Ste C
Poulsbo WA, 98370

Project: General Analyses
Project Number: 256917
Project Manager: Jessica Donaldson

Reported:
11-Nov-2025 10:32

Analysis by: Analytical Resources, LLC

Metals and Metallic Compounds - Quality Control

Batch BNJ0581 - EPA 7470A in Water

Instrument: HYDRA Analyst: ML

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BNJ0581-BLK1)						Prepared: 31-Oct-2025 Analyzed: 06-Nov-2025 14:06					
Mercury	ND	0.013	0.100	ug/L							U
LCS (BNJ0581-BS1)						Prepared: 31-Oct-2025 Analyzed: 06-Nov-2025 14:08					
Mercury	2.07	0.013	0.100	ug/L	2.00		104	80-120			



Spectra Laboratories-Kitsap Poulsbo
26276 12 Trees Ln NW Ste C
Poulsbo WA, 98370

Project: General Analyses
Project Number: 256917
Project Manager: Jessica Donaldson

Reported:
11-Nov-2025 10:32

Analysis by: Analytical Resources, LLC

Metals and Metallic Compounds - Quality Control

Batch BNK0052 - EPA 200.8 in Water

Instrument: ICPMS1 Analyst: HAL

QC Sample/Analyte	Isotope	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BNK0052-BLK1)						Prepared: 05-Nov-2025 Analyzed: 05-Nov-2025 22:00						
Arsenic UCT	75a UCT	ND	0.100	0.200	ug/L							U
Barium	135	ND	0.250	0.500	ug/L							U
Cadmium UCT	111 UCT	ND	0.0500	0.100	ug/L							U
Chromium	52	ND	0.375	0.500	ug/L							U
Selenium UCT	78 UCT	ND	0.500	1.00	ug/L							U
Silver	107	ND	0.100	0.200	ug/L							U
Blank (BNK0052-BLK2)						Prepared: 05-Nov-2025 Analyzed: 07-Nov-2025 17:19						
Lead	208	ND	0.100	0.200	ug/L							U
LCS (BNK0052-BS1)						Prepared: 05-Nov-2025 Analyzed: 05-Nov-2025 22:04						
Arsenic UCT	75a UCT	25.2	0.100	0.200	ug/L	25.0		101	85-115			
Barium	135	25.7	0.250	0.500	ug/L	25.0		103	85-115			
Cadmium UCT	111 UCT	28.1	0.0500	0.100	ug/L	25.0		112	85-115			
Chromium	52	27.9	0.375	0.500	ug/L	25.0		111	85-115			
Selenium UCT	78 UCT	81.3	0.500	1.00	ug/L	80.0		102	85-115			
Silver	107	25.5	0.100	0.200	ug/L	25.0		102	85-115			
LCS (BNK0052-BS2)						Prepared: 05-Nov-2025 Analyzed: 07-Nov-2025 17:24						
Lead	208	25.3	0.100	0.200	ug/L	25.0		101	85-115			



Spectra Laboratories-Kitsap Poulsbo
26276 12 Trees Ln NW Ste C
Poulsbo WA, 98370

Project: General Analyses
Project Number: 256917
Project Manager: Jessica Donaldson

Reported:
11-Nov-2025 10:32

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BNK0105 - SM 2320 B-11 in Water

Instrument: Accumet AB150 Analyst: LERB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BNK0105-BLK1)						Prepared: 06-Nov-2025 Analyzed: 07-Nov-2025 12:11					
Alkalinity, Total	ND	1.00	1.00	mg/L CaCO ₃							U
Reference (BNK0105-SRM1)						Prepared: 06-Nov-2025 Analyzed: 07-Nov-2025 12:11					
Alkalinity, Total	88.6	1.00	1.00	mg/L CaCO ₃	87.8		101	34.97-115.05			



Spectra Laboratories-Kitsap Poulsbo
26276 12 Trees Ln NW Ste C
Poulsbo WA, 98370

Project: General Analyses
Project Number: 256917
Project Manager: Jessica Donaldson

Reported:
11-Nov-2025 10:32

Uncertified Analytes included in this Report

Analysis Matrix & Analyte

None

Certified Analyses included in this Report

Analysis Matrix & Analyte

Certification Codes

EPA 200.8 in Water

Arsenic-75a UCT	DoD-ELAP,NELAP,WADOE
Barium-135	DoD-ELAP,NELAP,WADOE
Cadmium-111 UCT	DoD-ELAP,NELAP,WADOE
Chromium-52	DoD-ELAP,NELAP,WADOE
Lead-208	DoD-ELAP,NELAP,WADOE
Selenium-78 UCT	DoD-ELAP,NELAP,WADOE
Silver-107	DoD-ELAP,NELAP,WADOE

EPA 7470A in Water

Mercury	WADOE,NELAP,DoD-ELAP
---------	----------------------

EPA 8260D in Water

Benzene	ADEC,NELAP,WADOE,DoD-ELAP
Toluene	ADEC,NELAP,WADOE,DoD-ELAP
Ethylbenzene	ADEC,NELAP,WADOE,DoD-ELAP
m,p-Xylene	ADEC,NELAP,WADOE,DoD-ELAP
o-Xylene	ADEC,NELAP,WADOE,DoD-ELAP

NWTPH-Dx in Water

Diesel Range Organics (C12-C2	DoD-ELAP,NELAP,WADOE
Motor Oil Range Organics (C24-	DoD-ELAP,NELAP,WADOE

NWTPHg in Water

Gasoline Range Organics (Tol-N	WADOE,DoD-ELAP
--------------------------------	----------------

SM 2320 B-11 in Water

Alkalinity, Total	DoD-ELAP,WADOE,NELAP
-------------------	----------------------

Certifications

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/28/2026
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program, PJLA Testing	66169	01/31/2026
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-018	05/12/2026
WADOE	WA Dept of Ecology	C558	06/30/2026



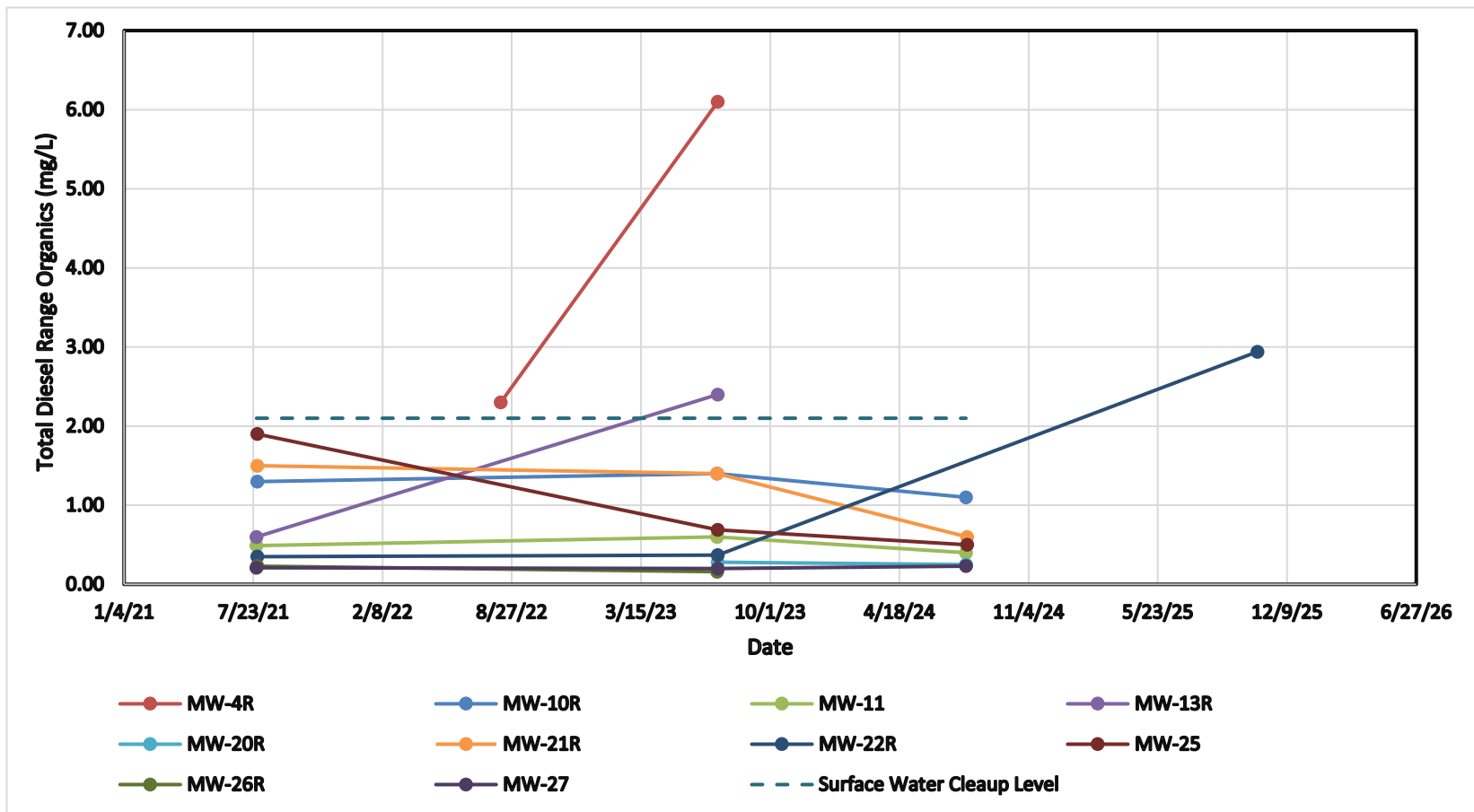
Spectra Laboratories-Kitsap Poulsbo
26276 12 Trees Ln NW Ste C
Poulsbo WA, 98370

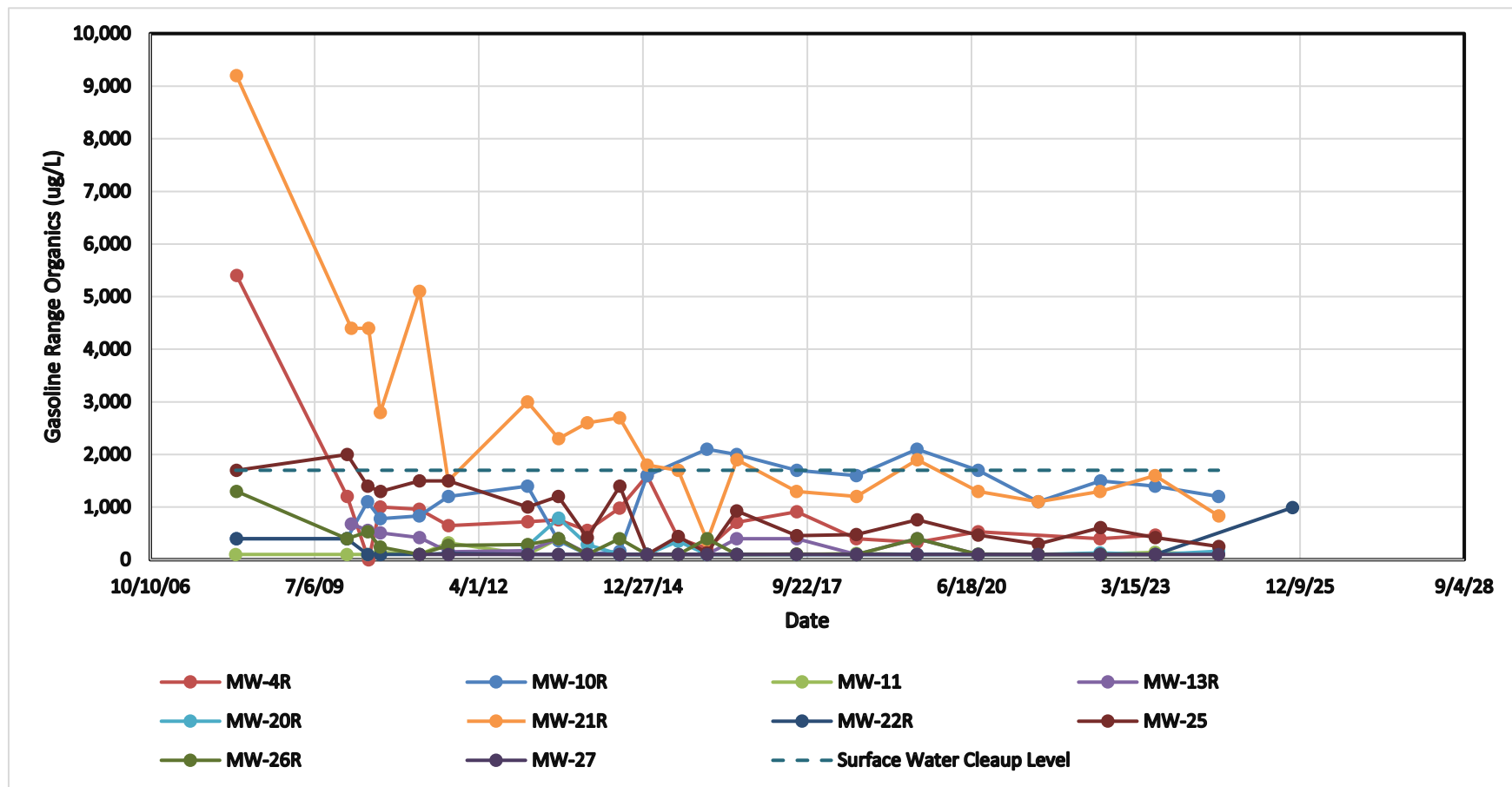
Project: General Analyses
Project Number: 256917
Project Manager: Jessica Donaldson

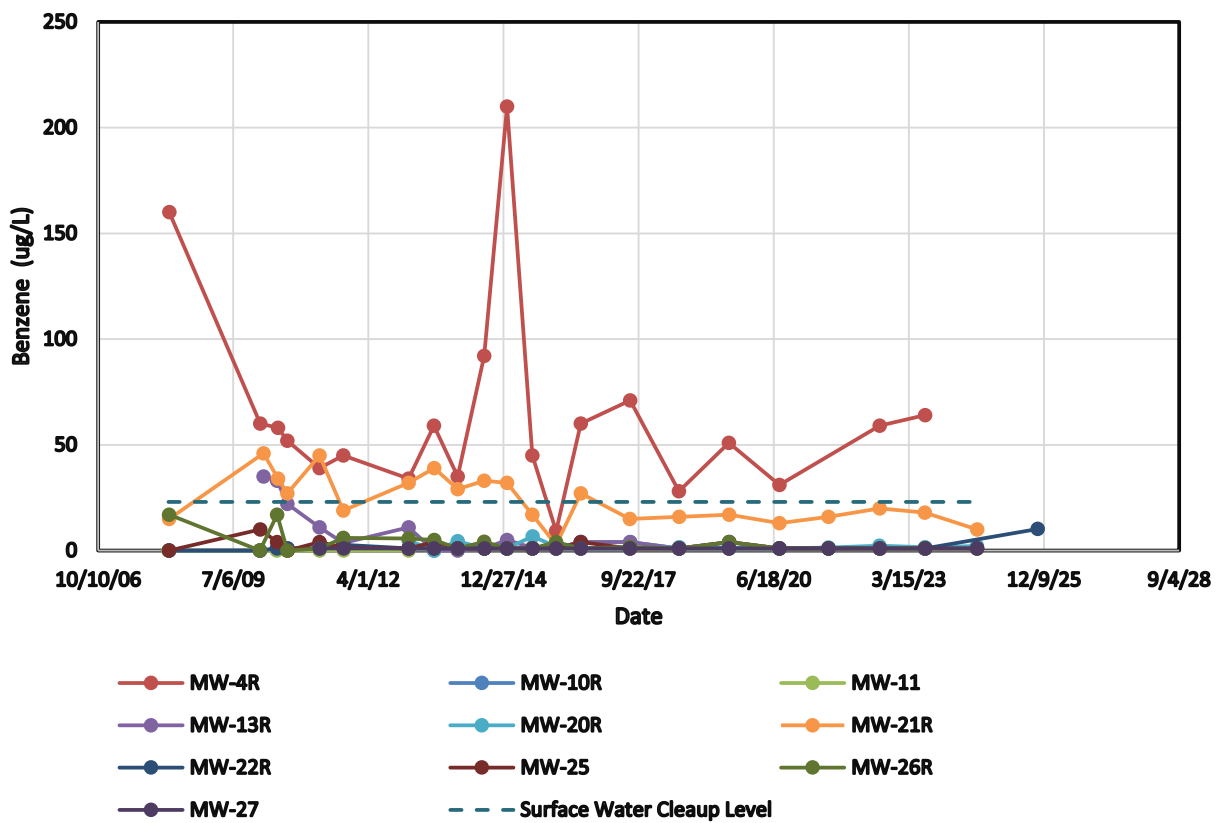
Reported:
11-Nov-2025 10:32

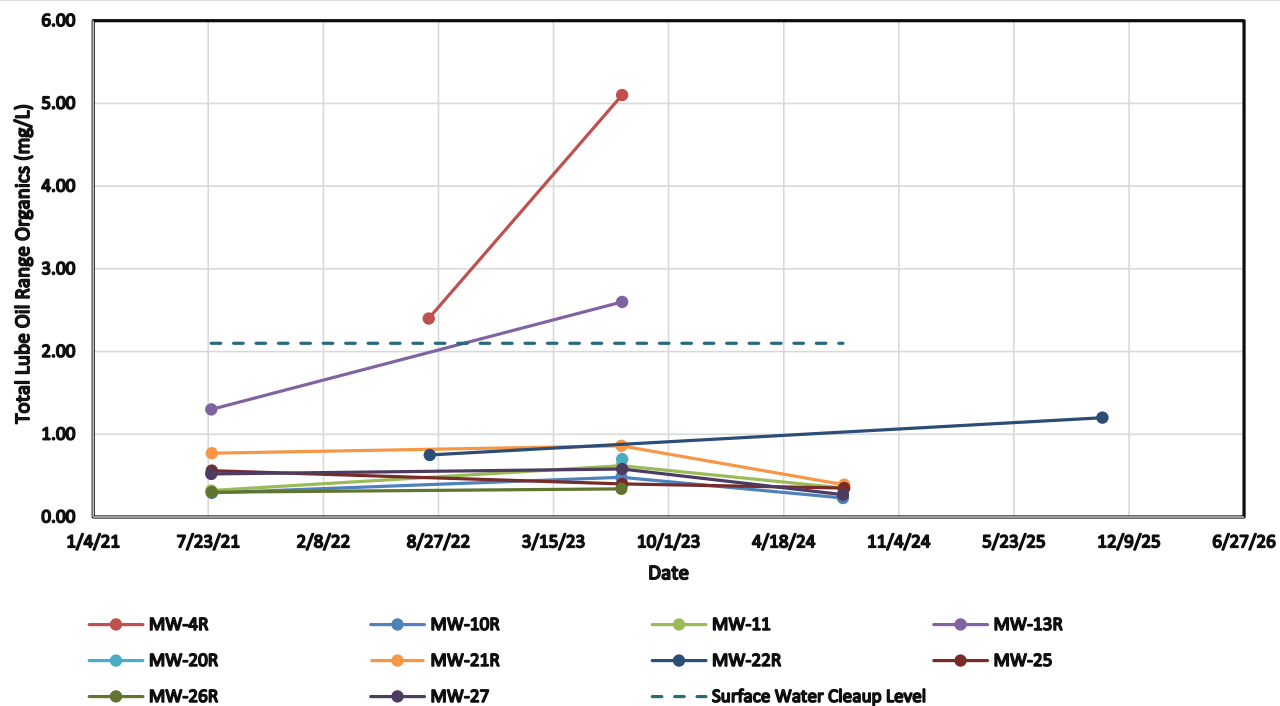
Notes and Definitions

*	Flagged value is not within established control limits.
B	This analyte was detected in the method blank.
D	The reported value is from a dilution
D1	Surrogate was not detected due to sample extract dilution
J	Estimated concentration value detected below the reporting limit.
L	Analyte concentration is ≤ 5 times the reporting limit and the replicate control limit defaults to $\pm$ RL instead of 20% RPD
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.
!	Indicates that ARL is NOT ACCREDITED for this parameter in samples logged as 'Drinking Water'
#	Indicates that ARL is NOT ACCREDITED for this parameter in this analysis and matrix.









Groundwater Sampling Field Data Sheet

Project Number	233-1896-107	Date	10/24/25
Project Name	Former Chevron Property	Location	Onsite at Well
Project Address	1310 Highland Drive, Bremerton	Sampled By	WR, JB
Client Name	City of Bremerton	Purged By	WR, JB

Casing Diameter: 2" 4" 6" Other 3/4 in

Depth to Water (feet)	<u>7.5</u>	Purge Vol. Meas.Method	<u>5 gal bucket</u>
Depth of Well (feet)	<u>14.75</u>	Date Purged	<u>10/24/25</u>
Reference Point (surveyors notch/etc)	<u> </u>	Purge Time (from/to)	<u>0930-0945</u>
Date/Time Sampled	<u>10/24/25 0900</u>	Flow Rate (ml/min)	450 ml/min

Purge Volume Calculation: $(\pi r^2 h)(7.48 \text{ gal/ft}^3)(\# \text{ Casing volumes})$	
Purge Volume (gallons) for 2" = $(0.16)(h)(\#Cv)$; 4" = $(0.653)(h)(\#Cv)$; 6" = $(1.48)(h)(\#Cv)$	
Calculated Purge Volume (gallons)	Actual Purge Volume (gallons)

[illegible]

Purge Equipment	<u>Peristaltic Pump</u>	Sampling Equipment	<u>Multi-Sonde Meter</u>
Laboratory	<u>Onsite/ARI</u>	Date Sent to Lab	<u>N/A</u>
Chain-of-Custody (yes/no)	<u>N/A</u>	Field QC Sample Number	<u>N/A</u>
Shipment Method	<u>N/A</u>	Split with (name(s)/organization)	<u>N/A</u>

Well Integrity Looks to be in good condition
 Remarks No bacteria
 Signature William Riley Page of

Table 1 - Event 16 Groundwater Results (2024)

Monitoring Well No.		MTCA Method A	Protect Marine	MW-4R	MW-10R	MW-11	MW-13R	MW-20R	MW-21R	MW-22R	MW-25	MW-26R	MW-27
PARAMETERS	Units	Unrestricted	Aquatic Life^										
TOTAL PETROLEUM HYDROCARBONS													
Gasoline with Benzene	ug/L	800	1,700	--	--	--	--	--	--	--	--	--	--
Gasoline Range Organics	ug/L			--	--	--	--	--	--	991	--	--	--
Diesel Range Organics	mg/L			--	--	--	--	--	--	2.94	--	--	--
Motor Oil Range Organics	mg/L			--	--	--	--	--	--	3.01	--	--	--
No SG Weathered Diesel (Dx)	mg/L	5.0	2.1	--	--	--	--	--	--	--	--	--	--
SG Weathered Diesel (Dx)	mg/L	5.0	2.1	--	--	--	--	--	--	--	--	--	--
No SG Lube Oil	mg/L	5.0	2.1	--	--	--	--	--	--	--	--	--	--
SG Lube Oil	mg/L	5.0	2.1	--	--	--	--	--	--	--	--	--	--
No SG Total Weathered Dx + Oil	mg/L		2.1	--	--	--	--	--	--	--	--	--	--
SG Total Weathered Dx + Oil	mg/L		2.1	--	--	--	--	--	--	--	--	--	--
VOLATILE ORGANICS (BTEX)													
Benzene	ug/L	5	23	--	--	--	--	--	--	10.2	--	--	--
Toluene	ug/L	1000	102	--	--	--	--	--	--	9.6	--	--	--
Ethylbenzene	ug/L	700	21	--	--	--	--	--	--	10.6	--	--	--
m,p-Xylene	ug/L	1000	106	--	--	--	--	--	--	21.1	--	--	--
o-Xylene	ug/L	1000	106	--	--	--	--	--	--	10.7	--	--	--
METALS													
Total Ferrous Iron	mg/L			--	--	--	--	--	--	<0.03	--	--	--
Dissolved Manganese	ug/L			--	--	--	--	--	--	--	--	--	--
GENERAL CHEMISTRY													
Alkalinity	mg/L			--	--	--	--	--	--	138	--	--	--
Nitrate (as Nitrogen)	mg/L			--	--	--	--	--	--	0.19	--	--	--
Sulfate	mg/L			--	--	--	--	--	--	1980	--	--	--
Chloride	mg/L			--	--	--	--	--	--	15900	--	--	--
Dissolved Methane	ug/L			--	--	--	--	--	--	--	--	--	--
FIELD PARAMETERS													
pH	--			--	--	--	--	--	--	7.77	--	--	--
Specific Conductance	Millisiemens/cm			--	--	--	--	--	--	42418	--	--	--
Dissolved Oxygen	mg/L			--	--	--	--	--	--	7.85	--	--	--
ORP	mV			--	--	--	--	--	--	93.8	--	--	--

Notes:

- Not Sampled/Not Analyzed
- ^ Ecology Publication No. 18-03-002 and 20-03-008
- < Analyte not detected above practical quantitation limit given. Non-detects quantitated at one-half the detection level for Total TPH Dx + Oil.
- Exceeds protection of surface water aquatic marine life cleanup level
- J= Estimate
- M= Hydrocarbons in the gasoline range are impacting the diesel range release
- mg/L= Milligrams per liter
- µg/L = Micrograms per liter
- SG = Silica gel treatment
- U1= Practical quantication limit elevated due to interference present in the sample