Groundwater Assessment

Stillwater Holdings Chevron Site
7 East Rose Street
Walla Walla, Washington

for
Washington State Department of Ecology

June 6, 2025

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GeoEngineers

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Prepared for:

State of Washington Department of Ecology
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1.0 Introduction

This report describes the March 2025 groundwater assessment conducted at Stillwater Holdings Chevron cleanup site (herein referred to as "Site"), as shown on the Vicinity Map, Figure 1. The Site includes the Chevron gas station located at 7 East Rose Street, the Marcus Whitman Hotel located at 6 West Rose Street, and the 106 Building located at 106 North 2nd Avenue, in Walla Walla, Washington, as shown on the Site Plan, Figure 2. The Washington State Department of Ecology (Ecology) reference numbers for this Site include Facility Site ID (FSID) No. 28575673 and Cleanup Site ID (CSID) No. 5818.

This assessment report has been prepared by GeoEngineers for Ecology under Ecology Master Contract No. C2500073. This report describes Site history, field activities, observations and chemical analytical results associated with groundwater samples collected at the Site in March 2025. The purpose of this assessment is to act in compliance with Washington Administrative Code (WAC) 173-340-430 (Interim Actions) to reduce a threat to human health or the environment by eliminating or substantially reducing one or more pathways for exposure to contaminated groundwater. Data generated from this assessment, in combination with previous groundwater sampling data from the Site, will be used to support the development of the interim cleanup action.

2.0 Site Description and Background

In September 2023, Ecology was notified of gasoline odor complaints at the Marcus Whitman Hotel. It was determined that gasoline vapors were entering the hotel building via the basement and gasoline was present in groundwater beneath the hotel building. The basement underlies the original portion of the historic Marcus Whitman building and includes hotel operations and utility rooms (electrical, boiler, air handler, etc.).

In the east corner of the basement, a lower-level basement (referred to as the sub-basement) contains a partial dirt floor and contains a vault and groundwater sump, which were identified as likely preferential pathways for vapor to enter the basement. Further investigation identified gasoline vapors and gasoline contaminated water in two sumps and a vault in an adjacent 106 Building. Emergency actions were taken to vent potentially explosive levels of volatile organic compounds (VOCs) and recover product from the sumps.

The Chevron gas station, located northeast of the Marcus Whitman and adjacent to the 106 Building, was identified as the source of the gasoline release. Thirteen monitoring wells were installed to delineate and monitor the release, as shown in Groundwater Assessment – March 2025, Figure 3. Four wells (AMW-01 through AMW-04) are located on the Chevron property. Nine wells (MW-1 through MW-9) are located nearby City of Walla Walla (City) right-of-way. Chevron property wells, as well as MW-7 through MW9) are 4-inches in diameter, and MW-1 through MW-6 are 2-inches in diameter. All wells are installed in the shallow, unconfined aquifer below the Site.

Emergency Removal Actions have continued at the Site since the identification of the release, including interception of contaminated groundwater in the sumps, treatment of contaminated groundwater using granular activated carbon (GAC) and discharging the treated groundwater to the municipal sewer. In May 2024, Stillwater Holdings, the owner of the Chevron gas station, petitioned Ecology to take over the continued remediation of the Site due to lack of funds.

Emergency interim action remains necessary at the site as unmitigated response to groundwater contamination or exposure to soil vapors would create a potential risk to public safety and could present a threat to the environment.

2.1 PREVIOUS INVESTIGATIONS

Assessment and remediation actions have been conducted at the Site since identification of the release in September 2023. Ecology and consultants hired by Stillwater Holdings have installed groundwater wells, implemented interim remediation measures, and monitored Site air and groundwater concentrations. Assessment and remediation actions have included:

- Using venting fans and isolation of rooms (sealed plastic sheets) to reduce VOC levels to less than the lower explosive limit (LEL) and mitigate risks to human health in the Marcus Whitman and the 106 Building.
- Intercepting groundwater in existing sumps within the Marcus Whitman and the 106 Building, where it is then manually removed and treated for VOCs prior to discharge to the Walla Walla publicly owned treatment works (POTW);
- Conducting indoor air sampling for VOCs in the 106 Building and the Marcus Whitman to evaluate the efficacy of the vapor ventilation systems in use at the properties;
- Sampling intercepted groundwater for VOCs and other constituents, following treatment by GAC, as required by the Industrial Pretreatment Program with the Walla Walla POTW;
- Installing and sampling thirteen groundwater monitoring wells (AMW-01-AMW-4, MW1-MW-9) to delineate and monitor the impacts of the September 2023 release. The groundwater monitoring well network has been sampled by Ecology or Aspect Consulting (Aspect) for VOCs, lead, naphthalene and product thickness in wells; and
- Conducting a preferential pathway investigation to determine pathways of soil vapor entering the 106 Building. The stormwater sump was identified as a soil vapor pathway to this building.

2.2 PRIOR ANALYTICAL RESULTS

Chemical analytical results from groundwater sampling between November 2023 and May 2024 indicated that gasoline-range petroleum hydrocarbons (GRPH) and petroleum-related VOCs were present in groundwater in nine monitoring wells (AMW-01 through AMW-04, MW-2, MW-3, MW-5, MW-6 and MW-9) at concentrations greater than the Model Toxics Control Act (MTCA) Method A cleanup levels. Chlorinated solvents including tetrachloroethene (PCE) and trichloroethene (TCE) were also detected in MW-7 and MW-8 concentrations greater than their respective MTCA Method A groundwater cleanup levels. There is no known use of chlorinated solvents at the Site. Lead has not been detected in the groundwater samples. MW-1 was damaged shortly after installation and does not produce water, and has not been sampled. All prior sampling has been performed by Ecology of Aspect.

3.0 Field Investigation Activities

The following sections describe field activities and a discussion of observed groundwater conditions during the March 2025 groundwater assessment.

3.1 GROUNDWATER AND SUMP WATER ASSESSMENT

Depth to water, presence of free product, and well headspace volatile organic vapor concentrations were measured prior to sample collection. Free product was not observed in any wells. Headspace vapor concentrations were observed to be between <1.0 ppm to 1,672.0 ppm (MW-6). Groundwater samples were collected in monitoring wells AMW-01 through AMW-04 located on the Chevron property, and monitoring wells MW-2 through MW-9 located on the City right-of-way on March 25 and 26, 2025. The monitoring wells were purged using low-flow techniques and groundwater quality parameters were monitored prior to sampling as described in Appendix A. Groundwater level measurements and groundwater quality parameters at the time of sample collection are summarized in Table 1, Summary of Groundwater Field Parameters. Depths to groundwater ranged between 8.42 feet below top of casing (BTOC) in MW-6 to 13.61 feet BTOC in MW-7. Groundwater elevations ranged between 937.02 feet in MW-7 and 943.98 feet in MW-6, and the groundwater gradient was to the southeast. Groundwater elevations and the groundwater gradient are shown on Figure 3.

Samples were additionally collected from the two sumps currently intercepting groundwater from beneath the Marcus Whitman (Marcus Whitman Sump) and the 106 Building (BLDG 106 Sump). Samples were collected using low flow techniques on March 27, 2025 following the standard procedures in Appendix A and submitted for chemical analysis.

3.2 INVESTIGATION-DERIVED WASTE

Investigation-derived waste (IDW), including purge and decontamination water generated during groundwater sampling activities, was placed in the groundwater treatment system and discharged to the municipal sewer under permit with Walla Walla publicly owned treatment works.

4.0 Chemical Analytical Results

The following sections describe groundwater and sump water chemical analytical results. The laboratory report and a data validation report are included in Appendix B.

4.1 GROUNDWATER CHEMICAL ANALYTICAL RESUSLTS

Twelve groundwater samples, and one duplicate groundwater sample from AMW-01, were submitted to Eurofins Environment Testing Northwest (Eurofins) in Spokane Valley, Washington, for chemical analysis of the following contaminants of concern (COCs):

- GRPH using Northwest Method NWTPH-Gx;
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX) using U.S. Environmental Protection Agency (EPA) Method 8260D.

Groundwater chemical analytical results are presented and compared to the MTCA Method A cleanup levels in Table 2, Chemical Analytical Results – Groundwater, and are summarized below:

- GRPH was detected at concentrations exceeding the MTCA Method A cleanup level (CUL) of 800 micrograms per liter (µg/L), applicable when benzene is present on the Site, in monitoring wells AMW-01, AMW-02, MW-2, MW-3, MW-5, and MW-6 during the March 2025 monitoring event. GRPH

concentrations exceeding the MTCA Method A CUL ranged from 910 µg/L in MW-2 to 39,000 µg/L in MW-5. GRPH was either not detected or was detected at concentrations less than the MTCA Method A cleanup level in the remaining groundwater samples analyzed.

- Benzene was detected at concentrations exceeding the MTCA Method A CUL of 5 µg/L in monitoring wells AMW-01, AMW-02, AMW-03, AMW-04, MW-2, MW-3, and MW-5 during the March 2025 monitoring event. Benzene concentrations exceeding the MTCA Method A CUL ranged from 12 µg/L in AMW-03 to 3,300 µg/L in AMW-01. Benzene was either not detected or was detected at concentrations less than the MTCA Method A cleanup level in the remaining groundwater samples analyzed.
- Toluene was detected at concentrations exceeding the MTCA Method A CUL of 1,000 µg/L in monitoring wells AMW-01, AMW-02, and MW-5 during the March 2025 monitoring event. Toluene concentrations exceeding the MTCA Method A CUL ranged from 3,200 µg/L in AMW-02 to 8,700 µg/L in AMW-01. Toluene was either not detected or was detected at concentrations less than the MTCA Method A cleanup level in the remaining groundwater samples analyzed.
- Ethylbenzene was detected at concentrations exceeding the MTCA Method A CUL of 700 µg/L in monitoring wells AMW-01 and MW-5 during the March 2025 monitoring event. Ethylbenzene concentrations exceeding the MTCA Method A CUL ranged from 970 µg/L in AMW-01 to 6,300 µg/L in MW-5. Ethylbenzene was either not detected or was detected at concentrations less than the MTCA Method A cleanup level in the remaining groundwater samples analyzed.
- Total xylenes were detected at concentrations exceeding the MTCA Method A CUL of 1000 µg/L in monitoring wells AMW-01, AMW-02, MW-3, MW-5, and MW-6 during the March 2025 monitoring event. Total xylenes concentrations exceeding the MTCA Method A CUL ranged from 1,100 µg/L in MW-3 to 8,200 µg/L in MW-5. total xylenes were detected at concentrations less than the MTCA Method A cleanup level in the remaining groundwater samples analyzed.

4.2 SUMP WATER CHEMICAL ANALYTICAL RESUSLTS

Two sump water samples, Marcus Whitman Sump and BLG 106 Sump, were submitted to Eurofins for the chemical analyses listed above

Sump water from both locations undergoes pretreatment prior to discharge to the Walla Walla POTW and these samples represent only pretreatment concentrations.

Sump water chemical analytical results are presented and compared to MTCA Method A cleanup levels and the Walla Walla POTW Discharge Limits in Table 3, Chemical Analytical Results – Sump Water, and are summarized below:

- GRPH was detected at a concentration exceeding the Walla Walla POTW Discharge Limit of 1,000 µg/L in the sump water sample from the Marcus Whitman Hotel during the March 2025 monitoring event. GRPH was detected at a concentration less than the MTCA Method A cleanup level of 800 µg/L, and less than Discharge Limit for the Walla Walla POTW, in the 106 Building sump water sample.
- Benzene was detected at concentrations exceeding the Walla Walla POTW Discharge Limit of 10 µg/L in the sump water samples from the Marcus Whitman Hotel and the 106 Building sumps during the March 2025 monitoring event.

- Toluene, ethylbenzene, and total xylenes were either not detected or detected at concentrations less than their respective MTCA Method A cleanup levels and the Walla Walla POTW Discharge Limits in the samples analyzed.

5.0 Summary and Recommendations

Twelve monitoring wells and two sumps were sampled in March 2025 at the Stillwater Holdings Chevron Site in Walla Walla Washinton. Groundwater and sump water samples collected during the monitoring event were submitted for chemical analysis. Based on previous data collected by others, an increase was seen in GRPH and individual VOC concentrations in MW-3, and a decrease seen in concentrations measured in AMW-04, MW-6, and MW-8. Other wells showed relatively steady concentrations of GRPH between November 2024 and March 2025, with results of the same order of magnitude observed.

Laboratory analytical results indicate that petroleum contamination is present at this Site at concentrations greater than the MTCA Method A cleanup levels. The plume appears to be bounded by the current well sampling network, by MW-8 to the south and MW-4 to the north, and by MW-7 to the west and MW-9 to the east. We recommend continued quarterly sampling of Site wells throughout the assessment and implementation of the interim cleanup action.

Petroleum contamination is present at concentrations in the sumps in both the Marcus Whitman and the 106 Building at concentrations greater than the Walla Walla POTW Discharge Limits, necessitating the continued need for pretreatment of sump water prior to discharge.

6.0 Limitations

We have prepared this report for the exclusive use of Washington State Department of Ecology and their authorized agents.

Within the limitations of scope, schedule and budget, our services were executed in accordance with generally accepted environmental science practices in this area at the time this report was prepared. The conclusions and opinions presented in this report are based on our professional knowledge, judgment and experience. No warranty or other conditions, express or implied, should be understood.

Please refer to Appendix C, Report Limitations and Guidelines for Use, for additional information pertaining to this report.

7.0 References

Draft Engineering Design Report Wastewater Treatment: Marcus Whitman Hotel—Wastewater Treatment System, dated May 8,

Marcus Whitman Hotel Vapor Intrusion Evaluation Workplan, dated March 27, 2024 and associated Memorandum between Aspect Consulting and Ecology, dated February 7, 2024

Washington State Department of Ecology. 2013. "Model Toxics Control Act Regulation and Statute, Champer 173-340 WAC and 70.105D RCW." Revised 2024.

Tables

Table 1

Summary of Groundwater Field Parmeters

Stillwater Holdings Chevron Site

Walla Walla, Washington

Monitoring Well Location		Sample Date	Headspace Vapor Measurement (ppm)	Depth to Water (feet btoc)	Groundwater Elevation (feet)	Field Measured Groundwater Quality Parameters					
						pH (pH units)	Specific Conductivity (µS/cm)	ORP (mV)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Temperature (degrees C)
Chevron Porperty wells	AMW-01	*11/09/2023*				*7.14*	*474.36*	*-182.1*	*0.6*	*14.6*	*13.58*
		05/01/2024				*6.91*	*1234.2*	*-135.8*	*0.21*	*25.4*	*16.97*
		8/21/2024				*6.65*	*864*	*-78.7*	*0.4*	--	*20.22*
		11/13/2024				*6.72*	*1226*	*-117.3*	*0.14*	--	*18.21*
		03/25/2025	639.7	11.1	940.88	6.62	1290	-136.9	-0.09	9.4	17.4
	AMW-02	*11/09/2023*				*7.26*	*616.82*	*145.8*	*0.4*	*6.69*	*16.37*
		05/01/2024				*6.92*	*827.25*	*-111.4*	*0.17*	*5.74*	*16.46*
		8/21/2024				*6.80*	*820*	*-73.2*	*1.7*	--	*18.64*
		11/14/2024				*6.69*	*1347*	*-123.1*	*0.24*	--	*13.23*
		3/25/2025	17.6	11.71	941.57	6.71	1012	-118.8	0.14	2.95	16.9
	AMW-03	*11/09/2023*				*7.17*	*470.38*	*-112*	*0.38*	*5.01*	*14.96*
		05/01/2024				*6.82*	*538.87*	*36.8*	*0.3*	*9.95*	*14.93*
		8/21/2024				*6.11*	*597*	*-22.6*	*24.8 %*	--	*18.20*
		11/13/2024				*6.72*	*754*	*-25.6*	*0.42*	--	*16.38*
		3/25/2025	<1	13.60	938.83	6.70	693	30.6	1.45	3.62	17.5
	AMW-04	*11/09/2023*				*7.01*	*408.91*	*-173*	*0.31*	*1.79*	*16.45*
		05/01/2024				*7.03*	*607.78*	*-131.5*	*0.27*	*4.14*	*15.79*
		8/21/2024				*6.88*	*594*	*-103.0*	*2.6*	--	*18.24*
		11/14/2024				*7.10*	*557*	*-90.9*	*0.47*	--	*18.46*
		3/25/2025	<1	10.61	943.31	6.51	548	19.1	0.01	4.85	16.1
City-Right-Of-Way Wells	MW-2	*11/29/2023*				*7.1*	*555.85*	*-94.4*	*0.38*	*2.96*	*12.72*
		04/30/2024				*6.87*	*554.36*	*-77.3*	*0.39*	*24.2*	*15.93*
		8/20/2024				*6.76*	*479*	*-44.6*	*1.9*	--	*17.67*
		11/13/2024				*6.78*	*640*	*-75.0*	*0.19*	--	*15.37*
		3/26/2025	<1	12.89	938.05	6.66	648	-74.8	0.10	5.58	16.9
	MW-3	*11/29/2023*				*7.19*	*617.85*	*50*	*0.37*	*7.88*	*12.63*
		04/30/2024				*6.95*	*675.49*	*-1.8*	*0.73*	*10.7*	*15.91*
		8/20/2024				*6.77*	*452*	*8.9*	*1.9*	--	*17.84*
		11/13/2024				*7.07*	*440*	*-48.7*	*1.01*	--	*16.52*
		3/26/2025	98.1	9.56	941.26	6.84	975	131.6	-0.02	1.88	12.0
	MW-4	*11/29/2023*				*6.59*	*365*	*203.1*	*1.54*	*1.27*	*13.65*
		04/30/2024				*6.69*	*451.82*	*180.4*	*1.79*	*3.09*	*15.28*
		8/20/2024				*6.70*	*443*	*100.4*	*6.9*	--	*18.99*
		11/13/2024				*6.77*	*390*	*59.2*	*0.84*	--	*15.20*
		3/26/2025	<1	11.71	938.63	6.66	410	158.9	1.74	27.69	16.1
	MW-5	*11/29/2023*				*6.6*	*887.38*	*-41.6*	*0.4*	*4.32*	*14.29*
		05/01/2024				*7.11*	*718.49*	*-158.6*	*0.46*	*4.93*	*16.39*
		11/13/2024				*6.97*	*551*	*-97.8*	*1.06*	--	*18.62*
		3/26/2025	397.0	10.92	940.93	6.86	792	-131.2	-0.05	3.47	15.6
	MW-6	*05/01/2024*				*6.76*	*418.53*	*-34.8*	*0.21*	*4.51*	*15.28*
		11/14/2024				*6.45*	*927*	*-84.6*	*1.47*	--	*19.04*
		3/26/2025	1,672.0	8.42	943.98	6.51	454	61	0.29	42.84	14.8
	MW-7	*11/10/2023*				*6.82*	*214.66*	*141.9*	*3.88*	*3.31*	*13.9*
		04/30/2024				*6.87*	*270.66*	*76.4*	*5.51*	*2.36*	*12.26*
		8/20/2024				*6.82*	*237*	*162.5*	*2.47*	--	*17.40*
		11/13/2024				*6.87*	*294*	*175.3*	*3.33*	--	*15.50*
		3/26/2025	-	13.61	937.02	6.29	295	118.2	6.52	1.42	12.6
	MW-8	*11/10/2023*				*6.7*	*254.55*	*127*	*1.22*	*1.09*	*15.32*
		05/01/2024				*6.54*	*244.1*	*176*	*2.56*	*1.26*	*15.45*
		8/20/2024				*6.72*	*270*	*178.9*	*1.73*	--	*17.14*
		11/13/2024				*6.70*	*332*	*172.8*	*1.87*	--	*15.92*
		3/26/2025	7.5	12.33	940.91	6.56	325	125.6	2.32	2.42	16.2
	MW-9	*11/10/2023*				*6.61*	*411.35*	*84*	*0.62*	*2*	*16.04*
		05/01/2024				*6.7*	*461.28*	*198.5*	*5.09*	*8.52*	*13.8*
		08/20/2024				*6.60*	*453*	*172.9*	*3.4*	--	*17.21*
		11/13/2024				*6.70*	*415*	*137.7*	*1.47*	--	*16.10*
		3/26/2025	3.9	10.5	942.07	6.68	454	114.6	6.05	1.31	14.6

Notes:

Italics notes Ecology and Aspect data as reported to GeoEngineers on April 15, 2025

Data collected by GeoEngineers during the March 2025 grounbdwater assessemnt are dated 03/25/25 - 03/26/25.

ppm = parts per million

Btoc = Below top of casing

µS/cm = microSiemens per centimeter

mV = millivolts

mg/L = milligrams per liter

NTU = Nephelometric Turbidity Units

deg C = degrees Celsius

Table 2

Chemical Analytical Results - Groundwater

Stillwater Holdings Chevron Site

Walla Walla, Washington

			Chevron Property Wells																					
Monitoring Well Location			AMW-01						AMW-02					AMW-03					AMW-04					
Sample Date			11/09/2023	05/01/2024	8/21/2024	11/13/2024	03/25/2025	(Dup) 03/25/2025	11/09/2023	05/01/2024	8/21/2024	11/14/2024	3/25/2025	11/09/2023	05/01/2024	8/21/2024	11/13/2024	3/25/2025	11/09/2023	05/01/2024	8/21/2024	11/14/2024	(Dup) 11/14/2024	3/25/2025
Analyte	Unit	MTCA[6] CUL																						
Petroleum Hydrocarbons[1]																								
GRPH	ug/L	800	13,000	85,000	4,100	25,000	27,000	33,000	29,000	59,000	4,800	4,300	5,400	7,300	62	660	300	73 J	9,100	39,000	13,000	6,400	5,200	420
BTEX[2]																								
Benzene	ug/L	5	1,100	7,100	1,800	3,000	3,300	3,200	2,600	7,200	3,100	1,200	1,700	1,200	24	140	54	12	970	1,700	670	440	360	23
Toluene	ug/L	1000	2,300	21,000	5,600	5,500	8,700	8,500	4,800	15,000	4,700	1,400	3,200	1,200	< 2.0 U	7.1	2	4.0	1,300	7,000	2,200	810	690	18
Ethylbenzene	ug/L	700	150	1300	440	680	1,000	970	360	820	450	220	450	160	6.9	53	19	4.2	160	910	510	390	310	23
Xylenes (Total)	ug/L	1000	1,100	6,300	2,260	3,300	5,700	5,400	2,500	5,000	2,100	810	1,600	690	< 4 U	24.5	8.4	3.8	920	4,800	2,330	1,200	1,000	50
Metals[3]																								
Lead (dissolved)	ug/L	15	--	< 1.0 U	--	--	--	--	--	< 1.0 U	--	--	--	--	< 1.0 U	--	--	--	--	< 1.0 U	--	--	--	--
PAHs[4]																								
Naphthalene	ug/L	160	--	130	77	--	--	--	--	120	74	--	--	--	< 2.0 U	4.8	--	--	--	90	88	--	--	--
VOCs[5]																								
1,2,4-Trimethylbenzene	ug/L	80	--	510	210	--	--	--	--	580	250	--	--	--	< 2.0 U	14	--	--	--	780	370	--	--	--
1,2-Dibromoethane (EDB)	ug/L	0.01	--	< 0.010 U	--	--	--	--	--	< 0.010 U	--	--	--	--	< 0.010 U	--	--	--	--	< 0.010 U	--	--	--	--
1,2-Dichloroethane (EDC)	ug/L	5	--	< 2.0 U	< 1.0 U	--	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--	--
1,3,5-Trimethylbenzene	ug/L	80	--	130	47	--	--	--	--	160	64	--	--	--	< 2.0 U	2	--	--	--	210	90	--	--	--
2-Chlorotoluene	ug/L	160	--	< 2.0 U	< 1.0 U	--	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--	--
4-Chlorotoluene	ug/L	160	--	< 2.0 U	< 1.0 U	--	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--	--
4-Methyl-2-pentanone	ug/L	640	--	15	NA	--	--	--	--	< 10 U	NA	--	--	--	< 10 U	NA	--	--	--	< 10 U	NA	--	--	--
Acetone	ug/L	7200	--	96 J	NA	--	--	--	--	< 25 U	NA	--	--	--	< 25 U	NA	--	--	--	< 25 U	NA	--	--	--
cis-1,2-Dichloroethene (cDCE)	ug/L	16	--	< 2.0 U	< 1.0 U	--	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--	--
Hexachlorobutadiene	ug/L	8	--	< 2.0 U	< 2.0 U	--	--	--	--	< 2.0 U	< 2.0 U	--	--	--	< 2.0 U	< 2.0 U	--	--	--	< 2.0 U	< 2.0 U	--	--	--
Isopropylbenzene (cumene)	ug/L	800	--	27	10	--	--	--	--	25	11	--	--	--	< 2.0 U	3	--	--	--	36	18	--	--	--
m,p-Xylenes	ug/L	1600	--	4,200	1,500	--	--	--	--	3,300	1200	--	--	--	< 4.0 U	15	--	--	--	3300	1500	--	--	--
Methyl tert-butyl ether (MTBE)	ug/L	20	--	< 2.0 U	< 1.0 U	--	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--	--
n-Butylbenzene	ug/L	400	--	< 2.0 U	< 1.0 U	--	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	0.64 J	--	--	--	< 2.0 U	12	--	--	--
n-Propylbenzene	ug/L	800	--	76	32	--	--	--	--	62	36	--	--	--	< 2.0 U	6.3	--	--	--	95	63	--	--	--
o-Xylene	ug/L	1600	--	2,100	760	--	--	--	--	1,700	900	--	--	--	< 2.0 U	9.5	--	--	--	1500	830	--	--	--
p-Isopropyltoluene	ug/L	--	--	< 2.0 U	1	--	--	--	--	< 2.0 U	0.93 J	--	--	--	< 2.0 U	0.54 J	--	--	--	< 2.0 U	1.8	--	--	--
sec-Butylbenzene	ug/L	800	--	4.0	3	--	--	--	--	2.6	1.5	--	--	--	< 2.0 U	0.73 J	--	--	--	3.9	3.3	--	--	--
Styrene	ug/L	1600	--	< 2.0 U	< 1.0 U	--	--	--	--	< 2.0 U	18	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--	--
tert-Butylbenzene	ug/L	800	--	< 2.0 U	1.1	--	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--	--
Tetrachloroethene (PCE)	ug/L	5	--	< 2.0 U	< 1.0 U	--	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--	--
trans-1,2-Dichloroethene	ug/L	160	--	< 2.0 U	<1.0 U	--	--	--	--	< 2.0 U	<1.0 U	--	--	--	< 2.0 U	<1.0 U	--	--	--	< 2.0 U	<1.0 U	--	--	--
Trichloroethene (TCE)	ug/L	5	--	< 2.0 U	<1.0 U	--	--	--	--	< 2.0 U	<1.0 U	--	--	--	< 2.0 U	<1.0 U	--	--	--	< 2.0 U	<1.0 U	--	--	--
Vinyl Chloride	ug/L	0.2	--	< 0.20 U	< 0.4 U	--	--	--	--	< 0.20 U	< 0.4 U	--	--	--	< 0.20 U	< 0.4 U	--	--	--	< 0.20 U	< 0.4 U	--	--	--

			City-Right-Of Way Wells																		
Monitoring Well Location			MW-2					MW-3					MW-4					MW-5			
Sample Date			11/29/2023	04/30/2024	8/20/2024	11/13/2024	3/26/2025	11/29/2023	04/30/2024	8/20/2024	11/13/2024	3/26/2025	11/28/2023	04/30/2024	8/20/2024	11/13/2024	3/26/2025	11/29/2023	05/01/2024	11/13/2024	3/26/2025
Analyte	Unit	MTCA[6] CUL																			
Petroleum Hydrocarbons[1]																					
GRPH	ug/L	800	6,700	290	510	1,100	910	7,300	2,800	54	54 U	4,900	< 50 U	< 50 U	54	54	< 54 U	190,000	130,000	42,000	39,000
BTEX[2]																					
Benzene	ug/L	5	910	190	130	270	260	700	120	0.52	2.7	57	< 1.0 U	< 2.0 U	0.38	< 0.4 U	< 0.4 U	9,100	700	800	1,500
Toluene	ug/L	1000	1,300	< 2.0 U	0.49	29	3.1	510	120	0.31	0.31 J	100	< 1.0 U	< 2.0 U	0.31	< 1.0 U	< 0.53 UJ	33,000	5,500	6,500	6,300
Ethylbenzene	ug/L	700	120	64	61	100	120	58	68	0.2	1.3	220	< 1.0 U	< 2.0 U	0.23	< 1.0 U	0.44 J	2,000	2,400	880	1,100
Xylenes (Total)	ug/L	1000	630	< 4 U	1.52	120	30	1,200	450	0.44	3.5	1,100	< 3.0 U	< 4 U	0.44	< 3.0 U	1.4 J	16,000	3,000	8,200	8,200
Metals[3]																					
Lead (dissolved)	ug/L	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PAHs[4]																					
Naphthalene	ug/L	160	--	7.6	2.4	--	--	--	30	0.63	--	--	--	< 2.0 U	< 2.0 U	--	--	--	420	--	--
VOCs[5]																					
1,2,4-Trimethylbenzene	ug/L	80	--	30	7.4	--	--	--	84	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--	--	2,400	--	--
1,2-Dibromoethane (EDB)	ug/L	0.01	--	< 0.010 U	--	--	--	--	< 0.010 U	--	--	--	--	< 0.010 U	--	--	--	--	< 0.010 U	--	--
1,2-Dichloroethane (EDC)	ug/L	5	--	< 2.0 U	< 1.0 U	--	--	--	2.4	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	--	--
1,3,5-Trimethylbenzene	ug/L	80	--	< 2.0 U	< 1.0 U	--	--	--	36	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--	--	650	--	--
2-Chlorotoluene	ug/L	160	--	< 2.0 U	< 1.0 U	--	--	--	2.7	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	--	--
4-Chlorotoluene	ug/L	160	--	< 2.0 U	< 1.0 U	--	--	--	7.5	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	--	--
4-Methyl-2-pentanone	ug/L	640	--	< 10 U	NA	--	--	--	< 10 U	NA	--	--	--	< 10 U	NA	--	--	--	< 10 U	--	--
Acetone	ug/L	7200	--	< 25 U	NA	--	--	--	30	NA	--	--	--	< 25 U	NA	--	--	--	< 25 U	--	--
cis-1,2-Dichloroethene (cDCE)	ug/L	16	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	--	--
Hexachlorobutadiene	ug/L	8	--	< 2.0 U	< 2.0 U	--	--	--	< 2.0 U	< 2.0 U	--	--	--	< 2.0 U	< 2.0 U	--	--	--	< 2.0 U	--	--
Isopropylbenzene (cumene)	ug/L	800	--	3.5	2.2	--	--	--	3.0	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--	--	77	--	--
m,p-Xylenes	ug/L	1600	--	< 4.0 U	< 2.0 U	--	--	--	190	< 2.0 U	--	--	--	< 4.0 U	< 2.0 U	--	--	--	2,100	--	--
Methyl tert-butyl ether (MTBE)	ug/L	20	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	--	--
n-Butylbenzene	ug/L	400	--	< 2.0 U	< 1.0 U	--	--	--	4.9	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	--	--
n-Propylbenzene	ug/L	800	--	7.0	5.8	--	--	--	4.1	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--	--	240	--	--
o-Xylene	ug/L	1600	--	< 2.0 U	< 1.0 U	--	--	--	260	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--	--	900	--	--
p-Isopropyltoluene	ug/L	--	--	< 2.0 U	0.53 J	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--	--	6.4	--	--
sec-Butylbenzene	ug/L	800	--	< 2.0 U	0.55 J	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--	--	9.1	--	--
Styrene	ug/L	1600	--	< 2.0 U	< 1.0 U	--	--	--	8.5	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	--	--
tert-Butylbenzene	ug/L	800	--	< 2.0 U	< 1.0 U	--	--	--	12	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	--	--
Tetrachloroethene (PCE)	ug/L	5	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	--	--
trans-1,2-Dichloroethene	ug/L	160	--	< 2.0 U	<1.0 U	--	--	--	< 2.0 U	<1.0 U	--	--	--	< 2.0 U	<1.0 U	--	--	--	< 2.0 U	--	--
Trichloroethene (TCE)	ug/L	5	--	< 2.0 U	<1.0 U	--	--	--	< 2.0 U	<1.0 U	--	--	--	< 2.0 U	<1.0 U	--	--	--	< 2.0 U	--	--
Vinyl Chloride	ug/L	0.2	--	< 0.20 U	< 0.4 U	--	--	--	< 0.20 U	< 0.4 U	--	--	--	< 0.20 U	< 0.4 U	--	--	--	< 0.20 U	--	--

			City-Right-Of Way Wells																	
Monitoring Well Location			MW-6			MW-7					MW-8					MW-9				
Sample Date			05/01/2024	11/14/2024	3/26/2025	11/10/2023	04/30/2024	8/20/2024	11/13/2024	3/26/2025	11/10/2023	05/01/2024	8/20/2024	11/13/2024	3/26/2025	11/10/2023	05/01/2024	08/20/2024	11/13/2024	3/26/2025
Analyte	Unit	MTCA[6] CUL																		
Petroleum Hydrocarbons[1]																				
GRPH	ug/L	800	77,000	25,000	12,000	76	< 50 U	55	170	99 J	320	310	760	1,900	760 J	240	< 50 U	54	59 J	< 54 U
BTEX[2]																				
Benzene	ug/L	5	2,000	650	4.3	< 1.0 U	< 2.0 U	<0.4 U	< 0.4 U	< 0.4 U	3.4	< 2.0 U	< 0.4 U	< 0.4 U	< 0.4 U	41	< 2.0 U	< 0.4 U	< 0.4 U	< 0.4 U
Toluene	ug/L	1000	9,000	69,000	78	< 1.0 U	< 2.0 U	0.31	< 1.0 U	1.4	< 1.0 U	< 2.0 U	< 1.0 U	< 1.0 U	< 0.77 UJ	< 1.0 U	< 2.0 U	< 1.0 U	< 1.0 U	< 0.57 UJ
Ethylbenzene	ug/L	700	1,900	1,100	150	< 1.0 U	< 2.0 U	0.2	< 1.0 U	0.79 J	< 1.0 U	< 2.0 U	< 1.0 U	< 1.0 U	0.26 J	< 1.0 U	< 2.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Xylenes (Total)	ug/L	1000	12,000	7,700	1,700	< 3.0 U	< 4 U	0.44	< 3.0 U	3.5	< 3.0 U	< 4 U	< 2.0U	< 3.0 U	1.2 J	< 3.0 U	< 4 U	< 2.0 U	< 3.0U	0.75 J
Metals[3]																				
Lead (dissolved)	ug/L	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PAHs[4]																				
Naphthalene	ug/L	160	420	--	--	--	< 2.0 U	< 2.0 U	--	--	--	< 2.0 U	< 2.0 U	--	--	--	< 2.0 U	< 2.0 U	--	--
VOCs[5]																				
1,2,4-Trimethylbenzene	ug/L	80	2,100	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--
1,2-Dibromoethane (EDB)	ug/L	0.01	< 0.010 U	--	--	--	< 0.010 U	--	--	--	--	< 0.010 U	--	--	--	--	< 0.010 U	--	--	--
1,2-Dichloroethane (EDC)	ug/L	5	< 2.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--
1,3,5-Trimethylbenzene	ug/L	80	640	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--
2-Chlorotoluene	ug/L	160	< 2.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--
4-Chlorotoluene	ug/L	160	< 2.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--
4-Methyl-2-pentanone	ug/L	640	< 10 U	--	--	--	< 10 U	NA	--	--	--	< 10 U	NA	--	--	--	< 10 U	NA	--	--
Acetone	ug/L	7200	< 25 U	--	--	--	< 25 U	NA	--	--	--	< 25 U	NA	--	--	--	< 25 U	NA	--	--
cis-1,2-Dichloroethene (cDCE)	ug/L	16	< 2.0 U	--	--	--	4.9	3	--	--	--	82	85	--	--	--	< 2.0 U	< 1.0 U	--	--
Hexachlorobutadiene	ug/L	8	< 2.0 U	--	--	--	< 2.0 U	< 2.0 U	--	--	--	< 2.0 U	< 2.0 U	--	--	--	< 2.0 U	< 2.0 U	--	--
Isopropylbenzene (cumene)	ug/L	800	91	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--
m,p-Xylenes	ug/L	1600	8,800	--	--	--	< 4.0 U	< 2.0 U	--	--	--	< 4.0 U	< 2.0 U	--	--	--	< 4.0 U	< 2.0 U	--	--
Methyl tert-butyl ether (MTBE)	ug/L	20	< 2.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--
n-Butylbenzene	ug/L	400	< 2.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--
n-Propylbenzene	ug/L	800	310	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--
o-Xylene	ug/L	1600	3,200	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--
p-Isopropyltoluene	ug/L	--	6.1	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--
sec-Butylbenzene	ug/L	800	9.5	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--
Styrene	ug/L	1600	< 2.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--
tert-Butylbenzene	ug/L	800	< 2.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--	--	< 2.0 U	< 1.0 U	--	--
Tetrachloroethene (PCE)	ug/L	5	< 2.0 U	--	--	--	62	53	--	--	--	840	920	--	--	--	6.1	4.9	--	--
trans-1,2-Dichloroethene	ug/L	160	< 2.0 U	--	--	--	< 2.0 U	<1.0 U	--	--	--	4.1	< 20 U	--	--	--	< 2.0 U	< 1.0 U	--	--
Trichloroethene (TCE)	ug/L	5	< 2.0 U	--	--	--	8.3	4.9	--	--	--	66	79	--	--	--	< 2.0 U	0.5 J	--	--
Vinyl Chloride	ug/L	0.2	< 0.20 U	--	--	--	< 0.20 U	< 0.4 U	--	--	--	0.96	< 0.4 U	--	--	--	< 0.20 U	< 0.4 U	--	--

Notes:

Samples collected by GeoEngineers during the March 2025 groundwater assessment and analyzed by Eurofins Environment Testing Northwest located in Spokane Valley, Washington are dated 03/25/25 - 03/26/25. Sample Locations are shown on Figure 2.

All results in micrograms per liter unless otherwise stated.

[1] Gasoline-range petroleum hydrocarbons analyzed using Northwest Method NWTPH-Gx.

[2,5] Volatile organic compounds analyzed using United States Environmental Protection Agency (EPA) Method 8260D.

[3] Metals analyzed using EPA Method 6010D.

[4] Polycylic aromatic hydrocarbons analyzed using the EPA Method 8270 E

[6] Model Toxics Control Act (MTCA) Method A/B Cleanup Levels (CUL) for Groundwater

TPHs - Total Petroleum Hydrocarbons

U = Analyte was not detected.

UJ = Analyte was not deemed above the reported sample quantitation limit due to trip blank contamination.

J = Analyte was detected at a concentration between the laboratory method detection limit (MDL) and reporting limit (RL) and the concentration is an estimated value OR the number is an estimated value.

"--" = not analyzed.

bold indicates analyte was detected.

Table 3

Chemical Analytical Results - Sump Water

Stillwater Holdings Chevron Site

Walla Walla, Washington

				Sample location	**Building 106**					**Marcus Whitman Hotel**				
				Sample Date	***11/8/2024***	***3/28/2024***	***8/16/2024***	***11/14/2024***	***3/27/2025***	***11/8/2023***	***3/28/2024***	***8/16/2024***	***11/14/2024***	***3/27/2025***
				Sample Identification	***106HS-110823***	***106 Sump***	***106Sump***	***106Sump***	**BLG 106 Sump**	***MWH Sump-110823***	***MWH Sump***	***MHWSump***	***MHWSump***	**Marcus Whitman Sump**
Analyte	**Unit**	**Walla Walla POTW Discharge Limits**	**MTCA Method A Cleanup Level for Groundwater[4]**											
Petroleum Hydrocarbons[1]														
GRPH	µg/L	1000	800		***6,900***	***9,900***	***2,000***	***2,700***	**750**	***54,000***	***17,000***	*< 54 U*	*< 54 U*	**3,600**
Volatile Organic Compounds (VOCs)[2]														
Benzene	µg/L	10	5		***420***	***270***	***71***	***67***	**36**	***1,700***	***640***	*0.18 J*	*< 0.093 U*	**290**
Toluene	µg/L	NE	1000		*980*	***1,400***	*240*	*310*	**110**	***4,300***	***1,900***	*0.64 J*	*< 0.45 U*	**66**
Ethylbenzene	µg/L	NE	700		*46*	*160*	*45*	*49*	**15**	*110*	*28*	*< 0.2 U*	*< 0.2 U*	**15**
Xylenes (Total)	µg/L	NE	1000		*780*	***1,320***	*420*	*490*	**160**	***6,900***	***2,540***	*1.07 J*	*< 0.44 U*	**860**
BTEX Total[3]	µg/L	200	NE		***2,226***	***3,150***	***776***	***916***	**321**	***13,010***	***5,108***	*1.89*	*1.183*	**1,231**

Notes:

Samples collected by GeoEngineers and analyzed by Eurofins Environment Testing Northwest located in Spokane Valley, Washington during the March 2025 grounbdwater assessemnt are dated 03/27/25. Sample Locations are shown on Figure 2.

Results reported in micrograms per liter unless otherwise stated.

[1]Gasoline-range petroleum hydrocarbons (GRPH) analyzed using Northwest Method NWTPH-Gx.

[2]Volatile organic compounds analyzed using United States Environmental Protection Agency (EPA) Method 8260D.

[3]BTEX = Benzene, Toluene, Ethylbenzene and Xylenes (total).

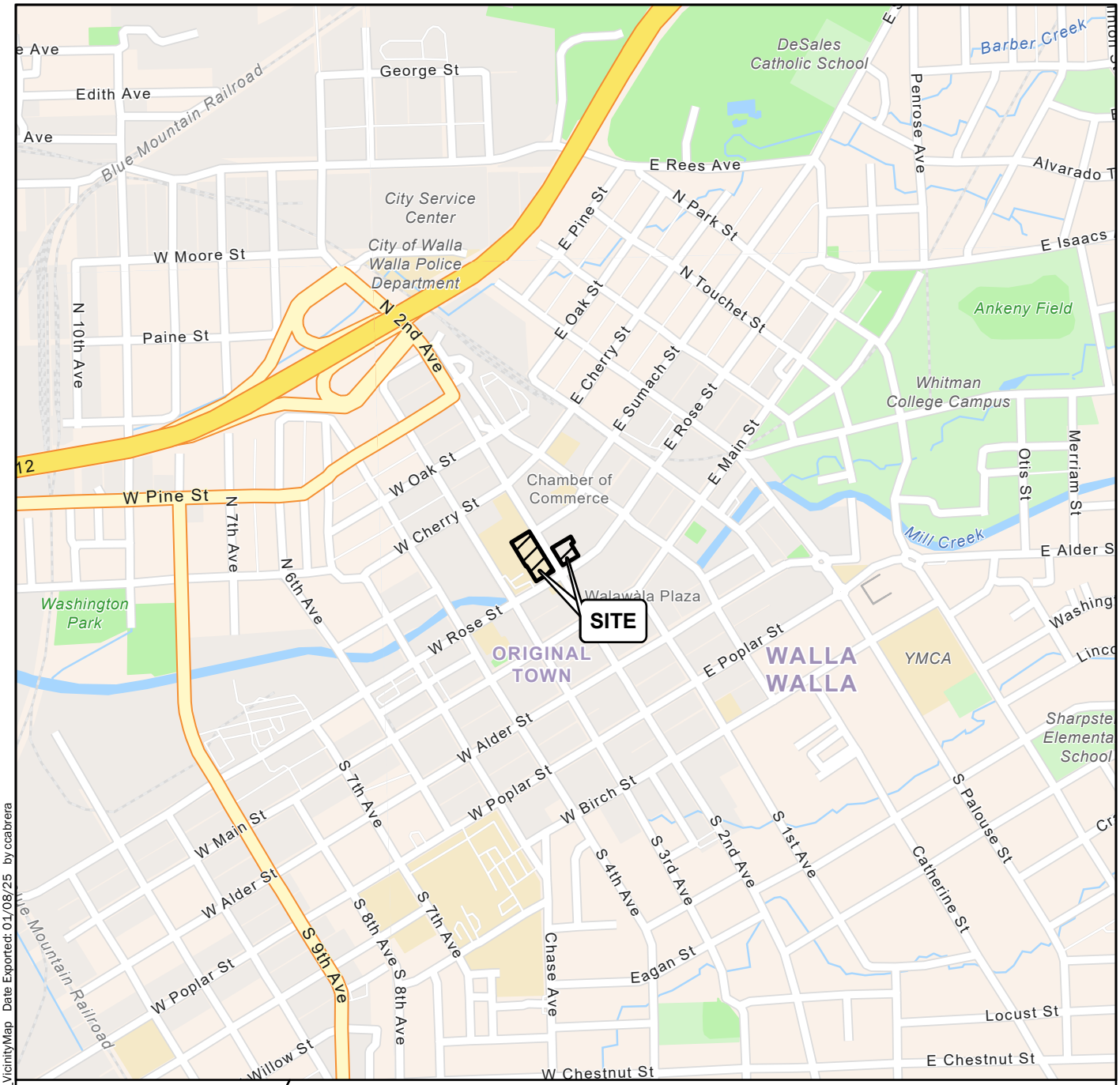
[4]Model Toxics Control Act (MTCA) Method A/B Cleanup Levels (CUL) for Groundwater

Results in **bold** indicate TPH or VOCs were detected.

Results in **bold** and highlighted grey are detected above the MTCA Method A cleanup level.

NE = Not established

Figures



Vicinity Map

Stillwater Holdings Chevron
Walla Walla, Washington

GeoEngineers

Figure 1

Source(s):
- ESRI

Coordinate System: NAD 1983 StatePlane Washington South FIPS 4602 Feet

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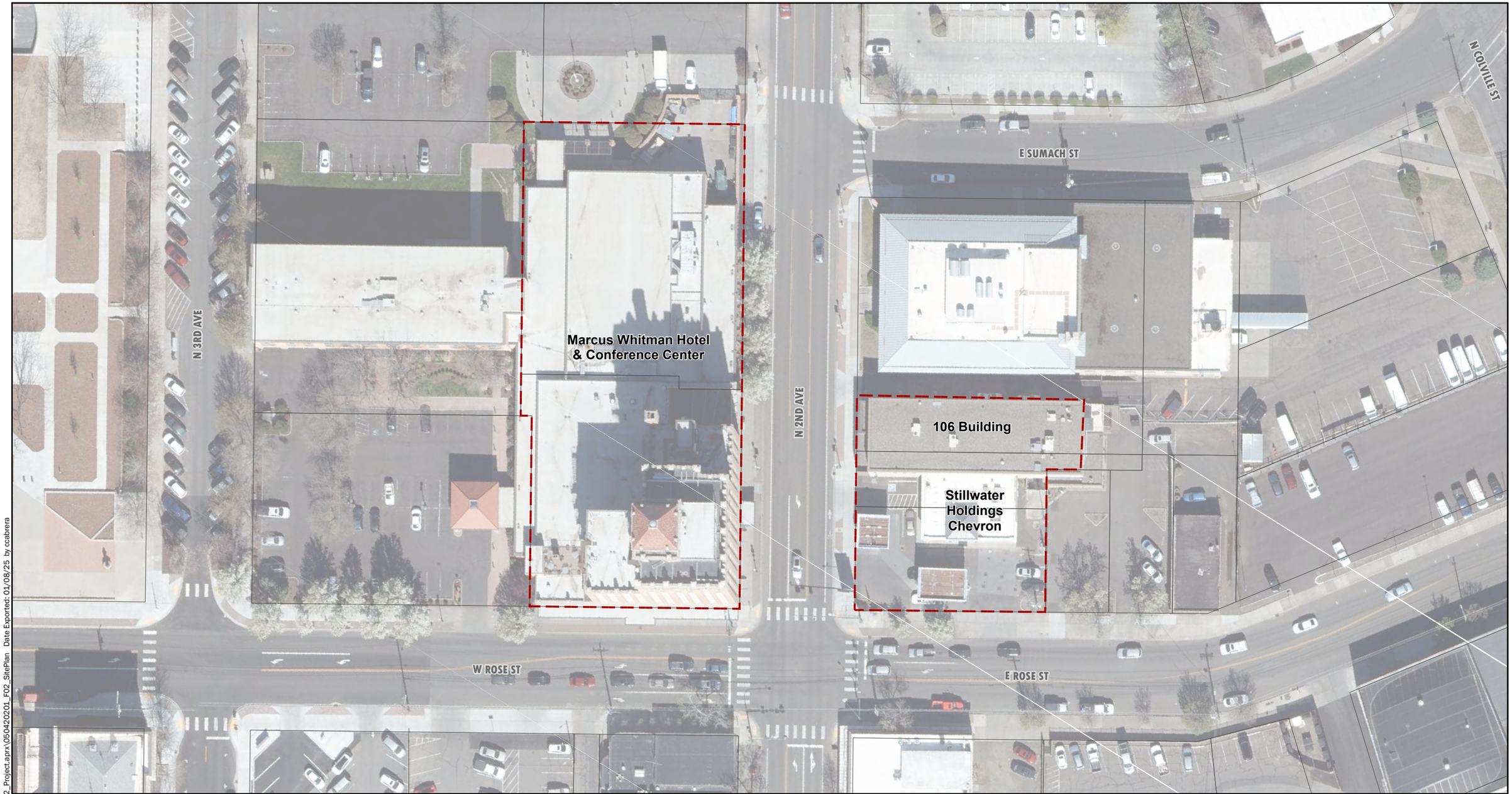


Site Buildings

Walla Walla Tax Parcel

Source(s):
- Walla Walla GIS

Coordinate System: NAD 1983 StatePlane Washington South FIPS 4602 Feet

Disclaimer: This figure was created for a specific purpose and project. Any use of this figure for any other project or purpose shall be at the user's sole risk and without liability to GeoEngineers. The locations of features shown may be approximate. GeoEngineers makes no warranty or representation as to the accuracy, completeness, or suitability of the figure, or data contained therein. The file containing this figure is a copy of a master document, the original of which is retained by GeoEngineers and is the official document of record.

0 60

Feet

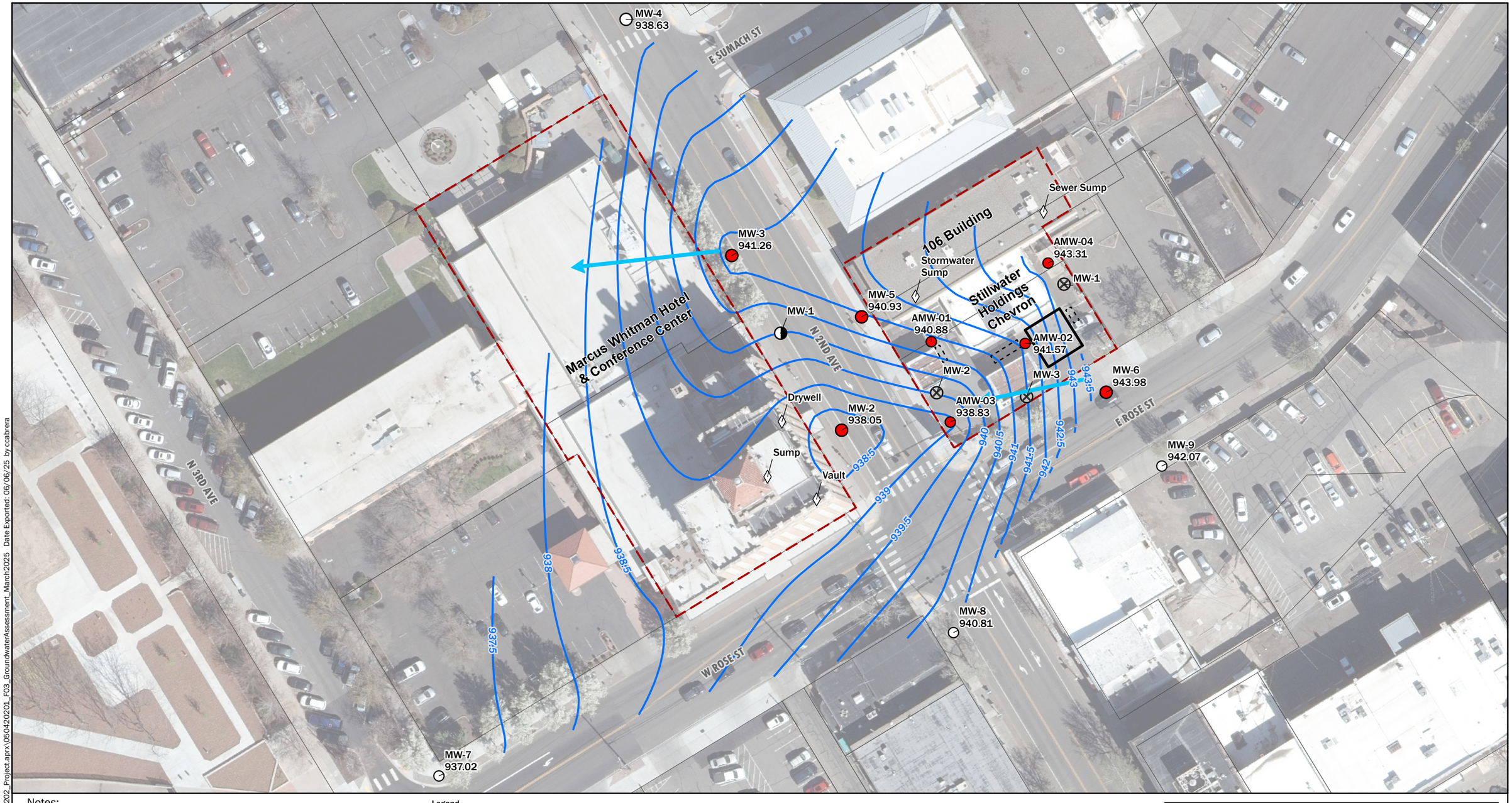
Site Plan

Stillwater Holdings Chevron
Walla Walla, Washington

GeoEngineers

Figure 2

P:\0\05042021GIS\05042021_Project\05042021_Project.aprx\050420201_F02_SitePlan Date Exported: 01/08/25 by ccabrera



Notes:
1. Basement samples in Marcus Whitman Hotel not shown on this figure.
2. Groundwater elevation data from Aspect Consulting Stillwater Holdings Chevron Groundwater Data Table – June 12 2024

Source(s):
- Walla Walla GIS

Coordinate System: NAD 1983 StatePlane Washington South FIPS 4602 Feet

Legend

- Monitoring Well and Groundwater Elevation (feet)
- Decommissioned Monitoring Well
- Sump
- Monitoring Well Not Sampleable
- Existing UST and Limits of Excavation
- Decommissioned UST
- GRPH, Benzene, Toluene, Ethylbenzene, and/or Xylenes (Total) Detected at concentrations Greater than their respective MTCA Method A Cleanup Levels
- Interpolated Groundwater Contour
- Site Buildings
- Groundwater Flow Direction
- Walla Walla Tax Parcel

N

0 60

Feet

Groundwater Assessment - March 2025

Stillwater Holdings Chevron
Walla Walla, Washington

GeoEngineers

Figure 3

Appendices

Appendix A
Field Assessment Procedures

Appendix A
Field Assessment Procedures

Standard Procedures

This section contains standard procedures for field data collection that were conducted during groundwater sampling activities at the Stillwater Holdings Chevron cleanup site located at 7 East Rose Street in Walla Walla, Washington.

MONITORING WELL SAMPLING

Groundwater samples were collected from groundwater monitoring wells AMW-01 through AMW-04, MW-2 through MW-9 and analyzed as described below. Depth to groundwater relative to the top of the polyvinyl chloride (PVC) well casing was measured to the nearest 0.01 foot using an electronic interface probe and recorded in the field notes.

Following depth to groundwater measurement, a groundwater sample was collected from each monitoring well consistent with the U.S. Environmental Protection Agency's (EPA's) low-flow groundwater sampling procedure, as described in EPA (2017) and Puls and Barcelona (1996). Dedicated tubing and a peristaltic pump was used for groundwater purging and sampling. During purging activities, water quality parameters, including pH, conductivity, dissolved oxygen (DO), oxidation-reduction potential (ORP), turbidity and temperature were measured using a multi-parameter meter equipped with a flow-through cell. Depth to water also was measured and recorded when groundwater quality parameters were recorded. Each monitoring well was purged until parameters stabilized, or a maximum of 30 minutes, whichever occurred first, before collecting the sample. Stability was defined as the following:

- pH: ± 0.1 pH units;
- Conductivity: ± 3 percent micro-Siemens per centimeter (µS/cm);
- ORP: ± 10 millivolts (mV);
- DO: ± 0.3 milligrams per Liter (mg/L);
- Turbidity: less than 10 nephelometric turbidity units (NTUs) or ± 10 percent NTUs when turbidity is greater than 10 NTUs; and
- Temperature: ± 3 percent degrees Celsius.

Field water quality measurements and depth-to-water measurements were recorded on a well purging-field water quality measurement form. Groundwater samples were transferred in the field to laboratory-prepared sample containers and kept cool during transport to the testing laboratory. Chain-of-Custody procedures were observed from the time of sample collection to delivery to the testing laboratory consistent with the Quality Assurance Project Plan (QAPP) included in the Work Plan (GeoEngineers 2024).

SUMP SAMPLING

Water samples were collected from sumps located in the Marcus Whitman sub-basement and the 106 Building basement, dedicated tubing and a peristaltic pump. Low flow (<200 milliliters per minute) were used to reduce degassing of VOC samples. Water samples were transferred in the field to laboratory-

prepared sample containers and kept cool during transport to the testing laboratory. Chain-of-Custody procedures were observed from the time of sample collection to delivery to the testing laboratory consistent with the QAPP.

References

Puls, R. W. and M.J. Barcelona. 1996. "Low-flow (Minimal Drawdown) Ground-water Sampling Procedures." EPA Ground Water Issue. April. p.1-9.

U.S. Environmental Protection Agency (EPA). 2017. Region 1, "Low Stress (Low-Flow) Purging and Sampling Procedure for the Collection of Ground Water Samples from Monitoring Wells." EPA SOP No. GW4, Revision No. 4., September 19, 2017.

Appendix B

Data Validation Report and Chemical Analytical Laboratory Report

GeoEngineers

Data Validation Report

523 East Second Avenue, Spokane, Washington 99202, Telephone: 509.363.3125 www.geoengineers.com

Project:	Stillwater Holdings Chevron – Environmental Services March 2025 Groundwater Samples
File:	0504-202-01
Date:	April 22, 2025

This report documents the results of a United States Environmental Protection Agency (USEPA)-defined Stage 2A data validation (USEPA Document 540-R-08-005; USEPA, 2009) of analytical data from the analyses of water samples collected as part of the March 2025 sampling event, and the associated laboratory and field quality control (QC) samples. The samples were obtained from the Stillwater Holdings Chevron facility located at 7 East Rose Street, in Walla Walla, Washington.

Objective and Quality Control Elements

GeoEngineers, Inc. (GeoEngineers) completed the data validation consistent with the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2020) (National Functional Guidelines) to determine if the laboratory analytical results meet the project objectives and are usable for their intended purpose. Data usability was assessed by determining if:

- The samples were analyzed using well-defined and acceptable methods that provide reporting limits below applicable regulatory criteria;
- The precision and accuracy of the data are well-defined and sufficient to provide defensible data; and
- The quality assurance/quality control (QA/QC) procedures utilized by the laboratory meet acceptable industry practices and standards.

The data validation included review of the following QC elements:

- Data Package Completeness
- Chain-of-Custody Documentation
- Holding Times and Sample Preservation
- Surrogate Recoveries
- Method and Trip Blanks
- Matrix Spikes/Matrix Spike Duplicates
- Laboratory Control Samples/Laboratory Control Sample Duplicates
- Field Duplicates
- Miscellaneous

Validated Sample Delivery Groups

This data validation included review of the sample delivery group (SDG) listed below in Table 1.

TABLE 1. SUMMARY OF VALIDATED SAMPLE DELIVERY GROUPS

LABORATORY SDG	SAMPLES VALIDATED
590-30157-1	AMW-01-032525, DUP-032525, AMW-2-032525, AMW-3-032525, AMW-4-032525, MW-2-032625, MW-3-032625, MW-4-032625, MW-5-032625, MW-6-032625, MW-7-032625, MW-8-032625, MW-9-032525, Marcus Whitman Sump Water, Bldg 106 Sump, Trip Blank

Chemical Analysis Performed

Eurofins Environment Testing, Inc. (Eurofins), located in Spokane, Washington, performed laboratory analyses on the samples using the following methods:

- Gasoline-range Hydrocarbons (NWTPH-Gx) by Method NWTPH-Gx; and
- Volatile Organic Compounds (VOCs) by Method EPA8260D

Data Validation Summary

The results for each of the QC elements are summarized below.

DATA PACKAGE COMPLETENESS

Eurofins provided the required deliverables for the data validation according to the National Functional Guidelines. The laboratory followed adequate corrective action processes and the identified anomalies were discussed in the relevant laboratory case narrative.

CHAIN-OF-CUSTODY DOCUMENTATION

Chain-of-custody (COC) forms were provided with the laboratory analytical reports. The COCs were accurate and complete when submitted to the laboratory.

HOLDING TIMES AND SAMPLE PRESERVATION

The sample holding time is defined as the time that elapses between sample collection and sample analysis. Maximum holding time criteria exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentration present at the time of sample collection. Established holding times were met for each analysis. The sample coolers arrived at the laboratory within the appropriate temperatures of between two and six degrees Celsius.

SURROGATE RECOVERIES

A surrogate compound is a compound that is chemically similar to the organic analytes of interest, but unlikely to be found in an environmental sample. Surrogates are used for organic analyses and are added to the samples, standards, and blanks to serve as an accuracy and specificity check of each analysis. The surrogates are added to the samples at a known concentration and percent recoveries are calculated following analysis. The surrogate percent recoveries for field samples were within the laboratory control limits.

METHOD AND TRIP BLANKS

Method Blanks

Method blanks are analyzed to ensure that laboratory procedures and reagents do not introduce measurable concentrations of the analytes of interest. A method blank was analyzed with each batch of samples, at a frequency of 1 per 20 samples. For each sample batch, method blanks for the applicable methods were analyzed at the required frequency. None of the analytes of interest were detected in the method blanks.

Trip Blanks

Trip blanks are analyzed to provide an indication as to whether volatile compounds have cross-contaminated other like samples within the transportation process to the laboratory. None of the analytes of interest were detected in the trip blank, with the following exception:

SDG 590-30157-1: (VOCs) There was a positive result for toluene detected above the method detection limit, but below the reporting limit in the trip blank, Sample Trip Blank. The positive results for toluene were qualified as non-detected (U) in Samples MW-4-032625, MW-8-032625, and MW-9-032525.

MATRIX SPIKES/MATRIX SPIKE DUPLICATES

Since the actual analyte concentration in an environmental sample is not known, the accuracy of a particular analysis is usually inferred by performing a matrix spike (MS) analysis on one sample from the associated batch, known as the parent sample. One aliquot of the sample is analyzed in the normal manner and then a second aliquot of the sample is spiked with a known amount of analyte concentration and analyzed. From these analyses, a percent recovery is calculated. Matrix spike duplicate (MSD) analyses are generally performed for organic analyses as a precision check and analyzed in the same sequence as a matrix spike. Using the result values from the MS and MSD, the relative percent difference (RPD) is calculated. The percent recovery control limits for MS and MSD analyses are specified in the laboratory documents, as are the RPD control limits for MS/MSD sample sets.

There were no MS/MSD sample sets performed on the associated GeoEngineers' field samples.

LABORATORY CONTROL SAMPLES/LABORATORY CONTROL SAMPLE DUPLICATES

A laboratory control sample (LCS) is a blank sample that is spiked with a known amount of analyte and then analyzed. An LCS is similar to an MS, but without the possibility of matrix interference. Given that matrix interference is not an issue, the LCS/LCSD control limits for accuracy and precision are usually more rigorous than for MS/MSD analyses. Additionally, data qualification based on LCS/LCSD analyses would apply to all samples in the associated batch, instead of just the parent sample. The percent recovery control limits for LCS and LCSD analyses are specified in the laboratory documents, as are the RPD control limits for LCS/LCSD sample sets.

One LCS/LCSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the percent recovery and RPD values were within the proper control limits.

FIELD DUPLICATES

In order to assess precision, field duplicate samples were collected and analyzed along with the reviewed sample batches. The duplicate samples were analyzed for the same parameters as the associated parent samples. Precision is determined by calculating the RPD between each pair of samples. If one or more of the sample analytes has a concentration less than five times the reporting limit for that sample, then the absolute difference is used instead of the RPD. The RPD control limit for water samples is 30 percent.

SDG 590-30157-1: One field duplicate sample pair, AMW-01-032525 and DUP-032525, was submitted with this SDG. The precision criteria for the target analytes were met for this sample pair.

MISCELLANEOUS

SDG 590-30157-1: (NWTPH-Gx) The positive result for gasoline-range hydrocarbons in Sample MW-8-032625 appears to be due to the presence of discrete peaks (tetrachloroethene) in the sample concentration. For this reason, the positive result for this target analyte was qualified as estimated (J) in this sample.

Overall Assessment

As was determined by this data validation, the laboratory followed the specified analytical methods. Accuracy was acceptable, as demonstrated by the surrogate and LCS/LCSD percent recovery values. Precision was acceptable, as demonstrated by the LCS/LCSD and field duplicate RPD values.

The data are acceptable for the intended use, with the following qualifications listed below in Table 2.

TABLE 2. SUMMARY OF QUALIFIED SAMPLES

SAMPLE ID	ANALYTE	QUALIFIER	REASON
MW-4-032625	Toluene	U	Trip Blank Contamination
MW-8-032625	Gasoline-range hydrocarbons Toluene	J U	See Miscellaneous Trip Blank Contamination
MW-9-032525	Toluene	U	Trip Blank Contamination

References

U.S. Environmental Protection Agency (USEPA). "Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use," EPA-540-R-08-005. January 2009.

U.S. Environmental Protection Agency (USEPA). Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review, EPA-540-R-20-005. November 2020.

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Melissa Roskamp
GeoEngineers Inc
523 East Second Ave
Spokane, Washington 99202

Generated 4/7/2025 5:04:10 AM

JOB DESCRIPTION

Stillwater Holdings Chevron/0504-202-01

JOB NUMBER

590-30157-1

Eurofins Spokane
11922 East 1st Ave
Spokane WA 99206

See page two for job notes and contact information.

myEOL

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northwest, LLC Project Manager.

Authorization

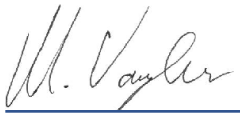

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Table of Contents

Job ID: 590-30157-1 Eurofins Spokane

Job Narrative
590-30157-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 3/27/2025 1:30 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.0°C.

Gasoline Range Organics
Method NWTPH_Gx_MS: The Gasoline Range Organics (GRO) concentration reported for the following sample is due to the presence of discrete peaks(Tetrachloroethene): MW-8-032625 (590-30157-11). Gasoline

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Sample Summary

Client: GeoEngineers Inc
Job ID: 590-30157-1
Project/Site: Stillwater Holdings Chevron/0504-202-01

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-30157-1	AMW-01-032525	Water	03/25/25 12:00	03/27/25 13:30
590-30157-2	AMW-2-032525	Water	03/25/25 13:20	03/27/25 13:30
590-30157-3	AMW-3-032525	Water	03/25/25 13:50	03/27/25 13:30
590-30157-4	AMW-4-032525	Water	03/25/25 10:35	03/27/25 13:30
590-30157-5	MW-2-032625	Water	03/26/25 16:05	03/27/25 13:30
590-30157-6	MW-3-032625	Water	03/26/25 15:15	03/27/25 13:30
590-30157-7	MW-4-032625	Water	03/26/25 13:35	03/27/25 13:30
590-30157-8	MW-5-032625	Water	03/26/25 15:00	03/27/25 13:30
590-30157-9	MW-6-032625	Water	03/26/25 11:10	03/27/25 13:30
590-30157-10	MW-7-032625	Water	03/26/25 17:30	03/27/25 13:30
590-30157-11	MW-8-032625	Water	03/26/25 09:50	03/27/25 13:30
590-30157-12	MW-9-032525	Water	03/25/25 14:10	03/27/25 13:30
590-30157-13	DUP-032525	Water	03/25/25 08:00	03/27/25 13:30
590-30157-14	Marcus Whitman Sump	Water	03/27/25 09:05	03/27/25 13:30
590-30157-15	Bldg 106 Sump	Water	03/27/25 08:40	03/27/25 13:30
590-30157-16	Trip Blank	Water	03/25/25 00:00	03/27/25 13:30

Definitions/Glossary

Client: GeoEngineers Inc
Job ID: 590-30157-1
Project/Site: Stillwater Holdings Chevron/0504-202-01

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client Sample ID: AMW-01-032525
Lab Sample ID: 590-30157-1

Date Collected: 03/25/25 12:00
Matrix: Water
Date Received: 03/27/25 13:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	3300		40	9.3	ug/L			04/03/25 15:21	100
Ethylbenzene	1000		100	20	ug/L			04/03/25 15:21	100
m,p-Xylene	3900		200	28	ug/L			04/03/25 15:21	100
o-Xylene	1700		100	16	ug/L			04/03/25 15:21	100
Toluene	8700		100	31	ug/L			04/03/25 15:21	100
Xylenes, Total	5700		300	44	ug/L			04/03/25 15:21	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*80 - 120*		*04/03/25 15:21*	*100*
4-Bromofluorobenzene (Surr)	*89*		*76 - 120*		*04/03/25 15:21*	*100*
Dibromofluoromethane (Surr)	*110*		*80 - 123*		*04/03/25 15:21*	*100*
Toluene-d8 (Surr)	*104*		*80 - 120*		*04/03/25 15:21*	*100*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	27000		1500	540	ug/L			04/03/25 15:00	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*68.7 - 141*		*04/03/25 15:00*	*10*

Client Sample ID: AMW-2-032525
Lab Sample ID: 590-30157-2

Date Collected: 03/25/25 13:20
Matrix: Water
Date Received: 03/27/25 13:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1700		40	9.3	ug/L			04/03/25 16:03	100
Ethylbenzene	450		10	2.0	ug/L			04/03/25 15:42	10
m,p-Xylene	1000		200	28	ug/L			04/03/25 16:03	100
o-Xylene	580		100	16	ug/L			04/03/25 16:03	100
Toluene	3200		100	31	ug/L			04/03/25 16:03	100
Xylenes, Total	1600		300	44	ug/L			04/03/25 16:03	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*83*		*80 - 120*		*04/03/25 15:42*	*10*
1,2-Dichloroethane-d4 (Surr)	*90*		*80 - 120*		*04/03/25 16:03*	*100*
4-Bromofluorobenzene (Surr)	*87*		*76 - 120*		*04/03/25 15:42*	*10*
4-Bromofluorobenzene (Surr)	*94*		*76 - 120*		*04/03/25 16:03*	*100*
Dibromofluoromethane (Surr)	*110*		*80 - 123*		*04/03/25 15:42*	*10*
Dibromofluoromethane (Surr)	*110*		*80 - 123*		*04/03/25 16:03*	*100*
Toluene-d8 (Surr)	*107*		*80 - 120*		*04/03/25 15:42*	*10*
Toluene-d8 (Surr)	*103*		*80 - 120*		*04/03/25 16:03*	*100*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	5400		150	54	ug/L			04/01/25 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*68.7 - 141*		*04/01/25 18:54*	*1*

Client Sample ID: AMW-3-032525
Lab Sample ID: 590-30157-3

Date Collected: 03/25/25 13:50
Matrix: Water
Date Received: 03/27/25 13:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	12		0.40	0.093	ug/L			04/01/25 19:15	1
Ethylbenzene	4.2		1.0	0.20	ug/L			04/01/25 19:15	1
m,p-Xylene	2.8		2.0	0.28	ug/L			04/01/25 19:15	1
o-Xylene	1.0		1.0	0.16	ug/L			04/01/25 19:15	1
Toluene	4.0		1.0	0.31	ug/L			04/01/25 19:15	1
Xylenes, Total	3.8		3.0	0.44	ug/L			04/01/25 19:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*80 - 120*		*04/01/25 19:15*	*1*
4-Bromofluorobenzene (Surr)	*96*		*76 - 120*		*04/01/25 19:15*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 123*		*04/01/25 19:15*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*04/01/25 19:15*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	73	J	150	54	ug/L			04/01/25 19:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*68.7 - 141*		*04/01/25 19:15*	*1*

Client Sample ID: AMW-4-032525
Lab Sample ID: 590-30157-4

Date Collected: 03/25/25 10:35
Matrix: Water
Date Received: 03/27/25 13:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	23		0.40	0.093	ug/L			04/01/25 19:36	1
Ethylbenzene	23		1.0	0.20	ug/L			04/01/25 19:36	1
m,p-Xylene	27		2.0	0.28	ug/L			04/01/25 19:36	1
o-Xylene	23		1.0	0.16	ug/L			04/01/25 19:36	1
Toluene	18		1.0	0.31	ug/L			04/01/25 19:36	1
Xylenes, Total	50		3.0	0.44	ug/L			04/01/25 19:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*80 - 120*		*04/01/25 19:36*	*1*
4-Bromofluorobenzene (Surr)	*93*		*76 - 120*		*04/01/25 19:36*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 123*		*04/01/25 19:36*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*04/01/25 19:36*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	420		150	54	ug/L			04/01/25 19:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*68.7 - 141*		*04/01/25 19:36*	*1*

Client Sample ID: MW-2-032625
Lab Sample ID: 590-30157-5

Date Collected: 03/26/25 16:05
Matrix: Water
Date Received: 03/27/25 13:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	260		4.0	0.93	ug/L			04/03/25 16:24	10
Ethylbenzene	120		10	2.0	ug/L			04/03/25 16:24	10
m,p-Xylene	21		2.0	0.28	ug/L			04/01/25 19:57	1
o-Xylene	9.4		1.0	0.16	ug/L			04/01/25 19:57	1
Toluene	3.1		1.0	0.31	ug/L			04/01/25 19:57	1
Xylenes, Total	30		3.0	0.44	ug/L			04/01/25 19:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*82*		*80 - 120*		*04/01/25 19:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*80 - 120*		*04/03/25 16:24*	*10*
4-Bromofluorobenzene (Surr)	*92*		*76 - 120*		*04/01/25 19:57*	*1*
4-Bromofluorobenzene (Surr)	*89*		*76 - 120*		*04/03/25 16:24*	*10*
Dibromofluoromethane (Surr)	*108*		*80 - 123*		*04/01/25 19:57*	*1*
Dibromofluoromethane (Surr)	*110*		*80 - 123*		*04/03/25 16:24*	*10*
Toluene-d8 (Surr)	*103*		*80 - 120*		*04/01/25 19:57*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*04/03/25 16:24*	*10*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	910		150	54	ug/L			04/01/25 19:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*68.7 - 141*		*04/01/25 19:57*	*1*

Client Sample ID: MW-3-032625
Lab Sample ID: 590-30157-6

Date Collected: 03/26/25 15:15
Matrix: Water
Date Received: 03/27/25 13:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	57		0.40	0.093	ug/L			04/01/25 20:18	1
Ethylbenzene	220		10	2.0	ug/L			04/03/25 16:45	10
m,p-Xylene	600		20	2.8	ug/L			04/03/25 16:45	10
o-Xylene	530		10	1.6	ug/L			04/03/25 16:45	10
Toluene	100		10	3.1	ug/L			04/03/25 16:45	10
Xylenes, Total	1100		30	4.4	ug/L			04/03/25 16:45	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*81*		*80 - 120*		*04/01/25 20:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*80 - 120*		*04/03/25 16:45*	*10*
4-Bromofluorobenzene (Surr)	*89*		*76 - 120*		*04/01/25 20:18*	*1*
4-Bromofluorobenzene (Surr)	*94*		*76 - 120*		*04/03/25 16:45*	*10*
Dibromofluoromethane (Surr)	*93*		*80 - 123*		*04/01/25 20:18*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 123*		*04/03/25 16:45*	*10*
Toluene-d8 (Surr)	*106*		*80 - 120*		*04/01/25 20:18*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*04/03/25 16:45*	*10*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	4900		150	54	ug/L			04/01/25 20:18	1

Client Sample ID: MW-3-032625
Lab Sample ID: 590-30157-6

Date Collected: 03/26/25 15:15
Matrix: Water
Date Received: 03/27/25 13:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*89*		*68.7 - 141*		*04/01/25 20:18*	*1*

Client Sample ID: MW-4-032625
Lab Sample ID: 590-30157-7

Date Collected: 03/26/25 13:35
Matrix: Water
Date Received: 03/27/25 13:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.40	0.093	ug/L			04/01/25 20:39	1
Ethylbenzene	**0.44**	**J**	1.0	0.20	ug/L			04/01/25 20:39	1
m,p-Xylene	**0.96**	**J**	2.0	0.28	ug/L			04/01/25 20:39	1
o-Xylene	**0.47**	**J**	1.0	0.16	ug/L			04/01/25 20:39	1
Toluene	**0.53**	**J**	1.0	0.31	ug/L			04/01/25 20:39	1
Xylenes, Total	**1.4**	**J**	3.0	0.44	ug/L			04/01/25 20:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*89*		*80 - 120*		*04/01/25 20:39*	*1*
4-Bromofluorobenzene (Surr)	*95*		*76 - 120*		*04/01/25 20:39*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 123*		*04/01/25 20:39*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*04/01/25 20:39*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	54	ug/L			04/01/25 20:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*95*		*68.7 - 141*		*04/01/25 20:39*	*1*

Client Sample ID: MW-5-032625
Lab Sample ID: 590-30157-8

Date Collected: 03/26/25 15:00
Matrix: Water
Date Received: 03/27/25 13:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1500**		40	9.3	ug/L			04/03/25 17:27	100
Ethylbenzene	**1100**		100	20	ug/L			04/03/25 17:27	100
m,p-Xylene	**5600**		200	28	ug/L			04/03/25 17:27	100
o-Xylene	**2600**		100	16	ug/L			04/03/25 17:27	100
Toluene	**6300**		100	31	ug/L			04/03/25 17:27	100
Xylenes, Total	**8200**		300	44	ug/L			04/03/25 17:27	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*90*		*80 - 120*		*04/03/25 17:27*	*100*
4-Bromofluorobenzene (Surr)	*93*		*76 - 120*		*04/03/25 17:27*	*100*
Dibromofluoromethane (Surr)	*106*		*80 - 123*		*04/03/25 17:27*	*100*
Toluene-d8 (Surr)	*106*		*80 - 120*		*04/03/25 17:27*	*100*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	**39000**		15000	5400	ug/L			04/03/25 17:27	100

Client Sample ID: MW-5-032625
Lab Sample ID: 590-30157-8

Date Collected: 03/26/25 15:00
Matrix: Water
Date Received: 03/27/25 13:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*93*		*68.7 - 141*		*04/03/25 17:27*	*100*

Client Sample ID: MW-6-032625
Lab Sample ID: 590-30157-9

Date Collected: 03/26/25 11:10
Matrix: Water
Date Received: 03/27/25 13:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**4.3**		0.40	0.093	ug/L			04/01/25 21:42	1
Ethylbenzene	**150**		10	2.0	ug/L			04/03/25 17:48	10
m,p-Xylene	**1300**		200	28	ug/L			04/03/25 18:30	100
o-Xylene	**430**		100	16	ug/L			04/03/25 18:30	100
Toluene	**78**		1.0	0.31	ug/L			04/01/25 21:42	1
Xylenes, Total	**1700**		300	44	ug/L			04/03/25 18:30	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*86*		*80 - 120*		*04/01/25 21:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*80 - 120*		*04/03/25 17:48*	*10*
1,2-Dichloroethane-d4 (Surr)	*91*		*80 - 120*		*04/03/25 18:30*	*100*
4-Bromofluorobenzene (Surr)	*85*		*76 - 120*		*04/01/25 21:42*	*1*
4-Bromofluorobenzene (Surr)	*95*		*76 - 120*		*04/03/25 17:48*	*10*
4-Bromofluorobenzene (Surr)	*93*		*76 - 120*		*04/03/25 18:30*	*100*
Dibromofluoromethane (Surr)	*95*		*80 - 123*		*04/01/25 21:42*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 123*		*04/03/25 17:48*	*10*
Dibromofluoromethane (Surr)	*109*		*80 - 123*		*04/03/25 18:30*	*100*
Toluene-d8 (Surr)	*103*		*80 - 120*		*04/01/25 21:42*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*04/03/25 17:48*	*10*
Toluene-d8 (Surr)	*102*		*80 - 120*		*04/03/25 18:30*	*100*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	**12000**		1500	540	ug/L			04/03/25 17:48	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*95*		*68.7 - 141*		*04/03/25 17:48*	*10*

Client Sample ID: MW-7-032625
Lab Sample ID: 590-30157-10

Date Collected: 03/26/25 17:30
Matrix: Water
Date Received: 03/27/25 13:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.40	0.093	ug/L			04/01/25 22:03	1
Ethylbenzene	**0.79**	**J**	1.0	0.20	ug/L			04/01/25 22:03	1
m,p-Xylene	**2.7**		2.0	0.28	ug/L			04/01/25 22:03	1
o-Xylene	**0.77**	**J**	1.0	0.16	ug/L			04/01/25 22:03	1
Toluene	**1.4**		1.0	0.31	ug/L			04/01/25 22:03	1
Xylenes, Total	**3.5**		3.0	0.44	ug/L			04/01/25 22:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*88*		*80 - 120*		*04/01/25 22:03*	*1*
4-Bromofluorobenzene (Surr)	*96*		*76 - 120*		*04/01/25 22:03*	*1*

Client Sample ID: MW-7-032625
Lab Sample ID: 590-30157-10

Date Collected: 03/26/25 17:30
Matrix: Water
Date Received: 03/27/25 13:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*105*		*80 - 123*		*04/01/25 22:03*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*04/01/25 22:03*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	**99**	**J**	150	54	ug/L			04/01/25 22:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*96*		*68.7 - 141*		*04/01/25 22:03*	*1*

Client Sample ID: MW-8-032625
Lab Sample ID: 590-30157-11

Date Collected: 03/26/25 09:50
Matrix: Water
Date Received: 03/27/25 13:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.40	0.093	ug/L			04/01/25 22:24	1
Ethylbenzene	**0.26**	**J**	1.0	0.20	ug/L			04/01/25 22:24	1
m,p-Xylene	**1.2**	**J**	2.0	0.28	ug/L			04/01/25 22:24	1
o-Xylene	ND		1.0	0.16	ug/L			04/01/25 22:24	1
Toluene	**0.77**	**J**	1.0	0.31	ug/L			04/01/25 22:24	1
Xylenes, Total	**1.2**	**J**	3.0	0.44	ug/L			04/01/25 22:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*85*		*80 - 120*		*04/01/25 22:24*	*1*
4-Bromofluorobenzene (Surr)	*95*		*76 - 120*		*04/01/25 22:24*	*1*
Dibromofluoromethane (Surr)	*95*		*80 - 123*		*04/01/25 22:24*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*04/01/25 22:24*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	**760**		150	54	ug/L			04/01/25 22:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*95*		*68.7 - 141*		*04/01/25 22:24*	*1*

Client Sample ID: MW-9-032525
Lab Sample ID: 590-30157-12

Date Collected: 03/25/25 14:10
Matrix: Water
Date Received: 03/27/25 13:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.40	0.093	ug/L			04/01/25 22:45	1
Ethylbenzene	ND		1.0	0.20	ug/L			04/01/25 22:45	1
m,p-Xylene	**0.75**	**J**	2.0	0.28	ug/L			04/01/25 22:45	1
o-Xylene	ND		1.0	0.16	ug/L			04/01/25 22:45	1
Toluene	**0.57**	**J**	1.0	0.31	ug/L			04/01/25 22:45	1
Xylenes, Total	**0.75**	**J**	3.0	0.44	ug/L			04/01/25 22:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*94*		*80 - 120*		*04/01/25 22:45*	*1*

Client Sample ID: MW-9-032525
Lab Sample ID: 590-30157-12

Date Collected: 03/25/25 14:10
Matrix: Water
Date Received: 03/27/25 13:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*76 - 120*		*04/01/25 22:45*	*1*
Dibromofluoromethane (Surr)	*111*		*80 - 123*		*04/01/25 22:45*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*04/01/25 22:45*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	54	ug/L			04/01/25 22:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*68.7 - 141*		*04/01/25 22:45*	*1*

Client Sample ID: DUP-032525
Lab Sample ID: 590-30157-13

Date Collected: 03/25/25 08:00
Matrix: Water
Date Received: 03/27/25 13:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**3200**		40	9.3	ug/L			04/03/25 19:13	100
Ethylbenzene	**970**		100	20	ug/L			04/03/25 19:13	100
m,p-Xylene	**3800**		200	28	ug/L			04/03/25 19:13	100
o-Xylene	**1700**		100	16	ug/L			04/03/25 19:13	100
Toluene	**8500**		100	31	ug/L			04/03/25 19:13	100
Xylenes, Total	**5400**		300	44	ug/L			04/03/25 19:13	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*80 - 120*		*04/03/25 19:13*	*100*
4-Bromofluorobenzene (Surr)	*92*		*76 - 120*		*04/03/25 19:13*	*100*
Dibromofluoromethane (Surr)	*106*		*80 - 123*		*04/03/25 19:13*	*100*
Toluene-d8 (Surr)	*103*		*80 - 120*		*04/03/25 19:13*	*100*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	**33000**		15000	5400	ug/L			04/03/25 19:13	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*68.7 - 141*		*04/03/25 19:13*	*100*

Client Sample ID: Marcus Whitman Sump
Lab Sample ID: 590-30157-14

Date Collected: 03/27/25 09:05
Matrix: Water
Date Received: 03/27/25 13:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**290**		4.0	0.93	ug/L			04/03/25 19:34	10
Ethylbenzene	**15**		1.0	0.20	ug/L			04/01/25 23:27	1
m,p-Xylene	**460**		20	2.8	ug/L			04/03/25 19:34	10
o-Xylene	**400**		10	1.6	ug/L			04/03/25 19:34	10
Toluene	**66**		1.0	0.31	ug/L			04/01/25 23:27	1
Xylenes, Total	**860**		30	4.4	ug/L			04/03/25 19:34	10

Client Sample ID: Marcus Whitman Sump
Lab Sample ID: 590-30157-14

Date Collected: 03/27/25 09:05
Matrix: Water
Date Received: 03/27/25 13:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		80 - 120		04/01/25 23:27	1
1,2-Dichloroethane-d4 (Surr)	88		80 - 120		04/03/25 19:34	10
4-Bromofluorobenzene (Surr)	88		76 - 120		04/01/25 23:27	1
4-Bromofluorobenzene (Surr)	93		76 - 120		04/03/25 19:34	10
Dibromofluoromethane (Surr)	100		80 - 123		04/01/25 23:27	1
Dibromofluoromethane (Surr)	106		80 - 123		04/03/25 19:34	10
Toluene-d8 (Surr)	102		80 - 120		04/01/25 23:27	1
Toluene-d8 (Surr)	102		80 - 120		04/03/25 19:34	10

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	3600		150	54	ug/L			04/01/25 23:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		68.7 - 141		04/01/25 23:27	1

Client Sample ID: Bldg 106 Sump
Lab Sample ID: 590-30157-15

Date Collected: 03/27/25 08:40
Matrix: Water
Date Received: 03/27/25 13:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	36		0.40	0.093	ug/L			04/01/25 23:48	1
Ethylbenzene	15		1.0	0.20	ug/L			04/01/25 23:48	1
m,p-Xylene	89		2.0	0.28	ug/L			04/01/25 23:48	1
o-Xylene	68		1.0	0.16	ug/L			04/01/25 23:48	1
Toluene	110		10	3.1	ug/L			04/03/25 19:55	10
Xylenes, Total	160		3.0	0.44	ug/L			04/01/25 23:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		80 - 120		04/01/25 23:48	1
1,2-Dichloroethane-d4 (Surr)	91		80 - 120		04/03/25 19:55	10
4-Bromofluorobenzene (Surr)	90		76 - 120		04/01/25 23:48	1
4-Bromofluorobenzene (Surr)	92		76 - 120		04/03/25 19:55	10
Dibromofluoromethane (Surr)	100		80 - 123		04/01/25 23:48	1
Dibromofluoromethane (Surr)	109		80 - 123		04/03/25 19:55	10
Toluene-d8 (Surr)	105		80 - 120		04/01/25 23:48	1
Toluene-d8 (Surr)	104		80 - 120		04/03/25 19:55	10

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	750		150	54	ug/L			04/01/25 23:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		68.7 - 141		04/01/25 23:48	1

Client: GeoEngineers Inc
Job ID: 590-30157-1
Project/Site: Stillwater Holdings Chevron/0504-202-01

Client Sample ID: Trip Blank
Lab Sample ID: 590-30157-16

Date Collected: 03/25/25 00:00
Matrix: Water

Date Received: 03/27/25 13:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.40	0.093	ug/L			04/03/25 20:37	1
Ethylbenzene	ND		1.0	0.20	ug/L			04/03/25 20:37	1
m,p-Xylene	ND		2.0	0.28	ug/L			04/03/25 20:37	1
o-Xylene	ND		1.0	0.16	ug/L			04/03/25 20:37	1
Toluene	**0.35**	**J**	1.0	0.31	ug/L			04/03/25 20:37	1
Xylenes, Total	ND		3.0	0.44	ug/L			04/03/25 20:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*80 - 120*		*04/03/25 20:37*	*1*
4-Bromofluorobenzene (Surr)	*96*		*76 - 120*		*04/03/25 20:37*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 123*		*04/03/25 20:37*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*04/03/25 20:37*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	54	ug/L			04/02/25 00:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*68.7 - 141*		*04/02/25 00:09*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 590-53200/10
Matrix: Water
Analysis Batch: 53200

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.40	0.093	ug/L			04/01/25 17:29	1
Ethylbenzene	ND		1.0	0.20	ug/L			04/01/25 17:29	1
m,p-Xylene	ND		2.0	0.28	ug/L			04/01/25 17:29	1
o-Xylene	ND		1.0	0.16	ug/L			04/01/25 17:29	1
Toluene	ND		1.0	0.31	ug/L			04/01/25 17:29	1
Xylenes, Total	ND		3.0	0.44	ug/L			04/01/25 17:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 120*		*04/01/25 17:29*	*1*
4-Bromofluorobenzene (Surr)	*93*		*76 - 120*		*04/01/25 17:29*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 123*		*04/01/25 17:29*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*04/01/25 17:29*	*1*

Lab Sample ID: LCS 590-53200/1005
Matrix: Water
Analysis Batch: 53200

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			10.0	9.93		ug/L		99	80 - 120		
Ethylbenzene			10.0	10.1		ug/L		101	80 - 122		
m,p-Xylene			10.0	9.59		ug/L		96	80 - 125		
o-Xylene			10.0	8.89		ug/L		89	80 - 130		
Toluene			10.0	10.1		ug/L		101	80 - 129		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*80 - 120*
4-Bromofluorobenzene (Surr)	*86*		*76 - 120*
Dibromofluoromethane (Surr)	*108*		*80 - 123*
Toluene-d8 (Surr)	*104*		*80 - 120*

Lab Sample ID: LCSD 590-53200/6
Matrix: Water
Analysis Batch: 53200

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			10.0	9.69		ug/L		97	80 - 120	2	15
Ethylbenzene			10.0	9.35		ug/L		93	80 - 122	7	35
m,p-Xylene			10.0	9.10		ug/L		91	80 - 125	5	35
o-Xylene			10.0	8.50		ug/L		85	80 - 130	4	35
Toluene			10.0	9.52		ug/L		95	80 - 129	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*80 - 120*
4-Bromofluorobenzene (Surr)	*88*		*76 - 120*
Dibromofluoromethane (Surr)	*111*		*80 - 123*
Toluene-d8 (Surr)	*100*		*80 - 120*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 590-53238/10
Matrix: Water
Analysis Batch: 53238

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.40	0.093	ug/L			04/03/25 14:39	1
Ethylbenzene	ND		1.0	0.20	ug/L			04/03/25 14:39	1
m,p-Xylene	ND		2.0	0.28	ug/L			04/03/25 14:39	1
o-Xylene	ND		1.0	0.16	ug/L			04/03/25 14:39	1
Toluene	ND		1.0	0.31	ug/L			04/03/25 14:39	1
Xylenes, Total	ND		3.0	0.44	ug/L			04/03/25 14:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*80 - 120*		*04/03/25 14:39*	*1*
4-Bromofluorobenzene (Surr)	*91*		*76 - 120*		*04/03/25 14:39*	*1*
Dibromofluoromethane (Surr)	*115*		*80 - 123*		*04/03/25 14:39*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*04/03/25 14:39*	*1*

Lab Sample ID: LCS 590-53238/1005
Matrix: Water
Analysis Batch: 53238

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			10.0	9.71		ug/L		97	80 - 120		
Ethylbenzene			10.0	10.0		ug/L		100	80 - 122		
m,p-Xylene			10.0	9.60		ug/L		96	80 - 125		
o-Xylene			10.0	9.15		ug/L		91	80 - 130		
Toluene			10.0	9.94		ug/L		99	80 - 129		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*80 - 120*
4-Bromofluorobenzene (Surr)	*91*		*76 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 123*
Toluene-d8 (Surr)	*103*		*80 - 120*

Lab Sample ID: LCSD 590-53238/6
Matrix: Water
Analysis Batch: 53238

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			10.0	9.72		ug/L		97	80 - 120	0	15
Ethylbenzene			10.0	9.72		ug/L		97	80 - 122	3	35
m,p-Xylene			10.0	9.47		ug/L		95	80 - 125	1	35
o-Xylene			10.0	9.15		ug/L		91	80 - 130	0	35
Toluene			10.0	9.94		ug/L		99	80 - 129	0	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 120*
4-Bromofluorobenzene (Surr)	*96*		*76 - 120*
Dibromofluoromethane (Surr)	*103*		*80 - 123*
Toluene-d8 (Surr)	*102*		*80 - 120*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Lab Sample ID: MB 590-53201/10
Matrix: Water
Analysis Batch: 53201

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	54	ug/L			04/01/25 17:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*68.7 - 141*		*04/01/25 17:29*	*1*

Lab Sample ID: LCS 590-53201/1009
Matrix: Water
Analysis Batch: 53201

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline			1000	910		ug/L		91	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*68.7 - 141*

Lab Sample ID: LCSD 590-53201/1020
Matrix: Water
Analysis Batch: 53201

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline			1000	898		ug/L		90	80 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*68.7 - 141*

Lab Sample ID: MB 590-53239/10
Matrix: Water
Analysis Batch: 53239

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	54	ug/L			04/03/25 14:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*68.7 - 141*		*04/03/25 14:39*	*1*

Lab Sample ID: LCS 590-53239/1009
Matrix: Water
Analysis Batch: 53239

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline			1000	925		ug/L		93	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*68.7 - 141*

Client: GeoEngineers Inc
Job ID: 590-30157-1
Project/Site: Stillwater Holdings Chevron/0504-202-01

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS) (Continued)

Lab Sample ID: LCSD 590-53239/1020
Matrix: Water
Analysis Batch: 53239

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline			1000	922		ug/L		92	80 - 120	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*68.7 - 141*

Lab Chronicle

Client: GeoEngineers Inc
Job ID: 590-30157-1
Project/Site: Stillwater Holdings Chevron/0504-202-01

Client Sample ID: AMW-01-032525
Lab Sample ID: 590-30157-1
Date Collected: 03/25/25 12:00
Matrix: Water
Date Received: 03/27/25 13:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		100	43 mL	43 mL	53238	04/03/25 15:21	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		10	43 mL	43 mL	53239	04/03/25 15:00	JSP	EET SPK

Client Sample ID: AMW-2-032525
Lab Sample ID: 590-30157-2
Date Collected: 03/25/25 13:20
Matrix: Water
Date Received: 03/27/25 13:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		10	43 mL	43 mL	53238	04/03/25 15:42	JSP	EET SPK
Total/NA	Analysis	8260D		100	43 mL	43 mL	53238	04/03/25 16:03	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	53201	04/01/25 18:54	JSP	EET SPK

Client Sample ID: AMW-3-032525
Lab Sample ID: 590-30157-3
Date Collected: 03/25/25 13:50
Matrix: Water
Date Received: 03/27/25 13:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	53200	04/01/25 19:15	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	53201	04/01/25 19:15	JSP	EET SPK

Client Sample ID: AMW-4-032525
Lab Sample ID: 590-30157-4
Date Collected: 03/25/25 10:35
Matrix: Water
Date Received: 03/27/25 13:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	53200	04/01/25 19:36	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	53201	04/01/25 19:36	JSP	EET SPK

Client Sample ID: MW-2-032625
Lab Sample ID: 590-30157-5
Date Collected: 03/26/25 16:05
Matrix: Water
Date Received: 03/27/25 13:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	53200	04/01/25 19:57	JSP	EET SPK
Total/NA	Analysis	8260D		10	43 mL	43 mL	53238	04/03/25 16:24	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	53201	04/01/25 19:57	JSP	EET SPK

Client Sample ID: MW-3-032625
Lab Sample ID: 590-30157-6
Date Collected: 03/26/25 15:15
Matrix: Water
Date Received: 03/27/25 13:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	53200	04/01/25 20:18	JSP	EET SPK
Total/NA	Analysis	8260D		10	43 mL	43 mL	53238	04/03/25 16:45	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	53201	04/01/25 20:18	JSP	EET SPK

Lab Chronicle

Client: GeoEngineers Inc
Job ID: 590-30157-1
Project/Site: Stillwater Holdings Chevron/0504-202-01

Client Sample ID: MW-4-032625
Lab Sample ID: 590-30157-7
Date Collected: 03/26/25 13:35
Matrix: Water
Date Received: 03/27/25 13:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	53200	04/01/25 20:39	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	53201	04/01/25 20:39	JSP	EET SPK

Client Sample ID: MW-5-032625
Lab Sample ID: 590-30157-8
Date Collected: 03/26/25 15:00
Matrix: Water
Date Received: 03/27/25 13:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		100	43 mL	43 mL	53238	04/03/25 17:27	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		100	43 mL	43 mL	53239	04/03/25 17:27	JSP	EET SPK

Client Sample ID: MW-6-032625
Lab Sample ID: 590-30157-9
Date Collected: 03/26/25 11:10
Matrix: Water
Date Received: 03/27/25 13:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	53200	04/01/25 21:42	JSP	EET SPK
Total/NA	Analysis	8260D		10	43 mL	43 mL	53238	04/03/25 17:48	JSP	EET SPK
Total/NA	Analysis	8260D		100	43 mL	43 mL	53238	04/03/25 18:30	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		10	43 mL	43 mL	53239	04/03/25 17:48	JSP	EET SPK

Client Sample ID: MW-7-032625
Lab Sample ID: 590-30157-10
Date Collected: 03/26/25 17:30
Matrix: Water
Date Received: 03/27/25 13:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	53200	04/01/25 22:03	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	53201	04/01/25 22:03	JSP	EET SPK

Client Sample ID: MW-8-032625
Lab Sample ID: 590-30157-11
Date Collected: 03/26/25 09:50
Matrix: Water
Date Received: 03/27/25 13:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	53200	04/01/25 22:24	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	53201	04/01/25 22:24	JSP	EET SPK

Client Sample ID: MW-9-032525
Lab Sample ID: 590-30157-12
Date Collected: 03/25/25 14:10
Matrix: Water
Date Received: 03/27/25 13:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	53200	04/01/25 22:45	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	53201	04/01/25 22:45	JSP	EET SPK

Lab Chronicle

Client: GeoEngineers Inc
Job ID: 590-30157-1
Project/Site: Stillwater Holdings Chevron/0504-202-01

Client Sample ID: DUP-032525
Lab Sample ID: 590-30157-13
Date Collected: 03/25/25 08:00
Matrix: Water
Date Received: 03/27/25 13:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		100	43 mL	43 mL	53238	04/03/25 19:13	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		100	43 mL	43 mL	53239	04/03/25 19:13	JSP	EET SPK

Client Sample ID: Marcus Whitman Sump
Lab Sample ID: 590-30157-14
Date Collected: 03/27/25 09:05
Matrix: Water
Date Received: 03/27/25 13:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	53200	04/01/25 23:27	JSP	EET SPK
Total/NA	Analysis	8260D		10	43 mL	43 mL	53238	04/03/25 19:34	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	53201	04/01/25 23:27	JSP	EET SPK

Client Sample ID: Bldg 106 Sump
Lab Sample ID: 590-30157-15
Date Collected: 03/27/25 08:40
Matrix: Water
Date Received: 03/27/25 13:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	53200	04/01/25 23:48	JSP	EET SPK
Total/NA	Analysis	8260D		10	43 mL	43 mL	53238	04/03/25 19:55	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	53201	04/01/25 23:48	JSP	EET SPK

Client Sample ID: Trip Blank
Lab Sample ID: 590-30157-16
Date Collected: 03/25/25 00:00
Matrix: Water
Date Received: 03/27/25 13:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	53238	04/03/25 20:37	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	53201	04/02/25 00:09	JSP	EET SPK

Laboratory References:

EET SPK = Eurofins Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

Accreditation/Certification Summary

Client: GeoEngineers Inc
Job ID: 590-30157-1
Project/Site: Stillwater Holdings Chevron/0504-202-01

Laboratory: Eurofins Spokane

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C569	01-06-26

Method Summary

Client: GeoEngineers Inc
Job ID: 590-30157-1
Project/Site: Stillwater Holdings Chevron/0504-202-01

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SPK
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC/MS)	NWTPH	EET SPK
5030C	Purge and Trap	SW846	EET SPK

Protocol References:

NWTPH = Northwest Total Petroleum Hydrocarbon

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SPK = Eurofins Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

Eurofins Eaton Analyitcal ~~South Bend~~
11922 E 1st Ave
Spokane, WA 99206
Phone (509) 924-9200

Chain of Custody Record

eurofins

Client Information	Sampler: Matthew Kaufman	Lab PM: Randee Arrington	Carrier Tracking No(s):	COC No:
Client Contact: Melissa Roskamp	Phone: 509-979-1537	E-Mail: mroskamp@geoengineers.com	State of Origin: WA	Page: Page 1 of 2
Company: GeoEngineers	PWSID:			Job #:

Address: 523 W 2nd Ave	Due Date Requested:
City: Spokane	TAT Requested (days): Standard
State, Zip: WA, 99202	Compliance Project: Δ Yes Δ No
Phone:	PO #:
Email:	WO #:
Project Name: Stillwater Holdings Chevron	Project #: 0504-202-01
Site: Walla Walla, Wa	SSOW#:

Analysis Requested

Preservation Codes:
A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA
M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	BTEX+TPHg	Total Number of containers	Special Instructions/Note.
			Preservation Code:				A		
AMW-01-032525	3/25/25	1200	G	W			X	3	
AMW-2-032525	3/25/25	1320					X	3	
AMW 3-032525	3/25/25	1350					X	3	
AMW-4-032525	3/25/25	1035					X	3	
MW-2-032625	3/26/25	1605					X	3	
MW-3-032625	3/26/25	1515					X	3	
MW-4-032625	3/24/25	1335					X	3	
MW-5-032525	3/25/25	1500					X	3	
MW-6-032625	3/26/25	1110					X	3	
MW-7-032625	3/26/25	1730					X	3	
MW-8-032625	3/26/25	0950					X	3	

590-30157 Chain of Custody

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown* ☐ *Radiological*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* X *Disposal By Lab* ☐ *Archive For* ______ *Months*

Deliverable Requested: I, II, III, IV, Other (specify) IIB
Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	3/27/25 1330	GEI	Cavan Reamme	3/27/25 1330	EETSPO

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.
Cooler Temperature(s) °C and Other Remarks: 4.6, 5.0 COR IR006

Ver: 02/24/23 4/7/2025

Eurofins Eaton Analyitcal ~~South Bend~~
11922 E 1st Ave
Spokane, WA 99206
Phone (509) 924-9200

Chain of Custody Record

eurofins

Client Information	Sampler: Matthew Kaufman	Lab PM: Randee Arrington	Carrier Tracking No(s):	COC No:
Client Contact: Melissa Roskamp	Phone: 509-979-1537	E-Mail: mroskamp@geoengineers.com	State of Origin: WA	Page: Page 2 of 2
Company: GeoEngineers	PWSID:			Job #:
Address: 523 W 2nd Ave	Due Date Requested:			
City: Spokane	TAT Requested (days): Standard			
State, Zip: WA, 99202	Compliance Project: Δ Yes Δ No			
Phone:	PO #:			
Email	WO #:			
Project Name: Stillwater Holdings Chevron	Project #: 0504-202-01			
Site: Walla Walla, WA	SSOW#:			

Analysis Requested

Preservation Codes

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	BTEX+TPHg	Total Number of containers	Special Instructions/Note.
			Preservation Code:				A		
MW-9-032525	3/25/25	1410	G	W			X	3	
Dup 032525	3/25/25	0800					X	3	
Marcus Whitman Sump	3/27/25	0905					X	3	
Bldg 106 Sump	3/27/25	0940					X	3	
Trip Blank							X	1	

Possible Hazard Identification
Non-Hazard, Flammable, Skin Irritant, Poison B, Unknown, Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Return To Client, X Disposal By Lab, Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) IIB

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	3/27/25 1330	GEI	Sarah Beamer	3/27/25 1330	EETSP
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.

Cooler Temperature(s) °C and Other Remarks: 4.6, 5.6 corr -1 R006

Login Sample Receipt Checklist

Client: GeoEngineers Inc

Job Number: 590-30157-1

Login Number: 30157

List Source: Eurofins Spokane

List Number: 1

Creator: Desimone, Carson

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Appendix C
Report Limitations and Guidelines for Use

Appendix C
Report Limitations and Guidelines for Use[1]

This appendix provides information to help you manage your risks with respect to the use of this report.

ENVIRONMENTAL SERVICES ARE PERFORMED FOR SPECIFIC PURPOSES, PERSONS AND PROJECTS

This report has been prepared for the exclusive use of the Washington State Department of Ecology (Ecology). This report is not intended for use by others, and the information contained herein is not applicable to other sites.

GeoEngineers structures our services to meet the specific needs of our clients. For example, an environmental site assessment study conducted for a property owner may not fulfill the needs of a prospective purchaser of the same property. Because each environmental study is unique, each environmental report is unique, prepared solely for the specific client and project site. No one except Ecology should rely on this environmental report without first conferring with GeoEngineers. This report should not be applied for any purpose or project except the one originally contemplated.

THIS ENVIRONMENTAL REPORT IS BASED ON A UNIQUE SET OF PROJECT-SPECIFIC FACTORS

This report has been prepared for the Stillwater Holdings Chevron cleanup site located at 7 East Rose Street in Walla Walla, Washington (the "Site"). GeoEngineers considered a number of unique, project-specific factors when establishing the scope of services for this project and report. Unless GeoEngineers specifically indicates otherwise, do not rely on this report if it was:

- not prepared for you,
- not prepared for your project,
- not prepared for the specific site explored, or
- completed before important project changes were made.

If important changes are made after the date of this report, GeoEngineers should be given the opportunity to review our interpretations and recommendations and provide written modifications or confirmation, as appropriate.

RELIANCE CONDITIONS FOR THIRD PARTIES

Our report was prepared for the exclusive use of Ecology. No other party may rely on the product of our services unless we agree in advance to such reliance in writing. This is to provide our firm and Ecology with reasonable protection against open-ended liability claims by third parties with whom there would otherwise be no contractual limits to their actions. Within the limitations of scope, schedule and budget, our services

have been executed in accordance with our Agreement with Ecology and generally accepted environmental practices in this area at the time this report was prepared.

ENVIRONMENTAL REGULATIONS ARE ALWAYS EVOLVING

Some substances may be present in the Site vicinity in quantities or under conditions that may have led, or may lead, to contamination of the subject Site, but are not included in current local, state or federal regulatory definitions of hazardous substances or do not otherwise present current potential liability. GeoEngineers cannot be responsible if the standards for appropriate inquiry, or regulatory definitions of hazardous substance, change or if more stringent environmental standards are developed in the future.

UNCERTAINTY MAY REMAIN EVEN AFTER THIS PHASE II ESA IS COMPLETED

No environmental site assessment can wholly eliminate uncertainty regarding the potential for contamination in connection with a property. Our interpretation of subsurface conditions in this study is based on field observations and chemical analytical data from widely spaced sampling locations. It is always possible that contamination exists in areas that were not explored, sampled or analyzed.

SUBSURFACE CONDITIONS CAN CHANGE

This environmental report is based on conditions that existed at the time the study was performed. The findings and conclusions of this report may be affected by the passage of time, by manmade events such as construction on or adjacent to the site, by new releases of hazardous substances, or by natural events such as floods, earthquakes, slope instability or groundwater fluctuations. Always contact GeoEngineers before applying this report to determine if it is still applicable.

MOST ENVIRONMENTAL FINDINGS ARE PROFESSIONAL OPINIONS

Our interpretations of subsurface conditions are based on field observations and chemical analytical data from widely spaced sampling locations at the Site. Site exploration identifies subsurface conditions only at those points where subsurface tests are conducted, or samples are taken. GeoEngineers reviewed field and laboratory data and then applied our professional judgment to render an opinion about subsurface conditions throughout the Site. Actual subsurface conditions may differ – sometimes significantly – from those indicated in this report. Our report, conclusions and interpretations should not be construed as a warranty of the subsurface conditions.

DO NOT REDRAW THE EXPLORATION LOGS

Environmental scientists prepare final boring and testing logs based upon their interpretation of field logs and laboratory data. To prevent errors or omissions, the logs included in an environmental report should never be redrawn for inclusion in other design drawings. Only photographic or electronic reproductions are acceptable but recognize that separating logs from the report can elevate risk.

READ THESE PROVISIONS CLOSELY

Some clients, design professionals and contractors may not recognize that the geoscience practices (geotechnical engineering, geology and environmental science) are far less exact than other engineering and natural science disciplines. This lack of understanding can create unrealistic expectations that could

lead to disappointments, claims and disputes. GeoEngineers includes these explanatory "limitations" provisions in our reports to help reduce such risks. Please confer with GeoEngineers if you are unclear how these "Report Limitations and Guidelines for Use" apply to your project or site.

GEOTECHNICAL, GEOLOGIC AND GEOENVIRONMENTAL REPORTS SHOULD NOT BE INTERCHANGED

The equipment, techniques and personnel used to perform an environmental study differ significantly from those used to perform a geotechnical or geologic study and vice versa. For that reason, a geotechnical engineering or geologic report does not usually relate any environmental findings, conclusions or recommendations; e.g., about the likelihood of encountering underground storage tanks or regulated contaminants. Similarly, environmental reports are not used to address geotechnical or geologic concerns regarding a specific project.

BIOLOGICAL POLLUTANTS

GeoEngineers' Scope of Work specifically excludes the investigation, detection, prevention or assessment of the presence of Biological Pollutants. Accordingly, this report does not include any interpretations, recommendations, findings, or conclusions regarding the detecting, assessing, preventing or abating of Biological Pollutants and no conclusions or inferences should be drawn regarding Biological Pollutants, as they may relate to this project. The term "Biological Pollutants" includes, but is not limited to, molds, fungi, spores, bacteria and viruses, and/or any of their byproducts.

If Ecology desires these specialized services, they should be obtained from a consultant who offers services in this specialized field.