THIRD AND FOURTH QUARTER 2023 GROUNDWATER MONITORING AND TREATMENT SYSTEM OPERATION AND MAINTENANCE REPORT

CHS Auburn Site
Auburn, Washington

Farallon PN: 301-004

February 23, 2024

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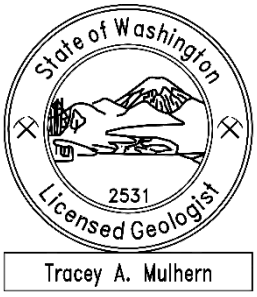

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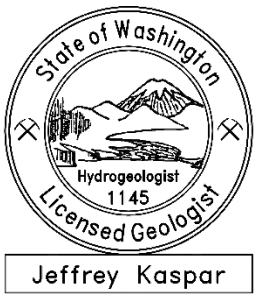

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1.0 INTRODUCTION

Farallon Consulting, L.L.C. (Farallon) has prepared this report on behalf of CHS Inc. (CHS) to document air sparge (AS) and soil vapor extraction (SVE) system routine operation and maintenance (O&M), AS/SVE system optimization, and groundwater monitoring activities for the third and fourth quarter 2023 conducted at the CHS Auburn facility at 238 8th Street Southeast in Auburn, Washington (CHS Auburn Facility) and contiguous areas where constituents of concern (COCs) in soil and groundwater exceed applicable cleanup levels from releases at the CHS Auburn Facility (herein referred to as the Site). The COCs for the Site are total petroleum hydrocarbons as diesel-range organics (DRO), as oil-range organics (ORO), and as gasoline-range organics (GRO); and benzene, toluene, ethylbenzene, and xylenes (BTEX). A Site vicinity map is provided on Figure 1, and a Site plan is provided on Figure 2.

Routine AS/SVE system O&M was conducted between July 13 and December 1, 2023 (herein referred to as the reporting period), and groundwater monitoring activities were conducted on November 27 and 28, 2023 at the Site (herein referred to as the November 2023 monitoring event). The scope of work for the AS/SVE system O&M and optimization activities and November 2023 monitoring event were conducted in accordance with the *Performance Monitoring Plan, CHS Auburn Site, Auburn, Washington, Facility Site No. 2487, Consent Decree No. 18-2-15430-8* dated February 15, 2019 (Farallon 2019) (Performance Monitoring Plan) that was approved by the Washington State Department of Ecology (Ecology) in January 2019.

1.1 BACKGROUND

A Remedial Investigation/Feasibility Study for the Site was conducted in accordance with the Washington State Model Toxics Control Act Cleanup Regulation (MTCA), as established in Chapter 173-340 of the Washington Administrative Code, and pursuant to the requirements of Agreed Order No. 4033 entered into between CHS and Ecology on June 12, 2007. The Remedial Investigation Report for the Site was submitted to Ecology on July 20, 2011 (Farallon 2011), and the Feasibility Study for the Site was submitted to Ecology on August 6, 2014 (Farallon 2014). The *Final Cleanup Action Plan, CHS Auburn Site, 238 8th Street Southeast and Contiguous Areas, Auburn, Washington, Agreed Order No. 4033, Facility Site No. 2487* dated May 8, 2018 (Ecology 2018) (Final Cleanup Action Plan) was included as

Exhibit B of Consent Decree No. 18-2-15430-8 between Ecology and CHS, with an effective date of June 20, 2018.

The cleanup action outlined in the Final Cleanup Action Plan for groundwater included installation of additional AS wells and expansion of the existing AS/SVE system to reduce concentrations of COCs in groundwater. The existing AS/SVE system consisted of three systems: the perimeter AS/SVE system installed in 1994, the down-gradient AS/SVE system installed in 1995, and the central AS/SVE system installed in 1996. Portions of the perimeter, down-gradient, and central AS/SVE systems were turned off with Ecology approval between the late 1990s and 2007. The down-gradient AS/SVE system was decommissioned in 2010 due to road improvements by the City of Auburn to D Street Southeast.

The current configuration of the AS/SVE system, which includes AS wells CAS-1 through CAS-22 and SVE wells CSVE-1, CSVE-5, CSV-7, CSVE-9, and CSVE-10, has been operating at the Site since June 2019[1] with the objective of reducing concentrations of COCs in groundwater to less than MTCA Method A cleanup levels within a reasonable restoration time frame. The current AS/SVE system is shown on Figure 3.

1.2 ORGANIZATION

This report is organized into the following sections:

- **Section 2, Treatment System Operation, Maintenance, and Optimization**, provides details on the operation, maintenance, and optimization of the AS/SVE system.
- **Section 3, Groundwater Monitoring Methods**, describes the sampling protocols and the selected monitoring wells and analyses for the November 2023 monitoring event.
- **Section 4, Groundwater Monitoring Results**, presents groundwater elevations and Site-wide analytical results from the November 2023 monitoring event, and the data validation conducted.
- **Section 5, Discussion**, presents a summary of contaminant distribution in groundwater at the Site prior to and after start-up of the reconfigured AS/SVE system in June 2019.

[1] Start-up testing of the AS/SVE system was conducted on May 29, 2019. The AS/SVE system was started for continuous operation on June 13, 2019.

- **Section 6, Ongoing and Planned Activities**, discusses planned activities for the first semiannual 2024 groundwater monitoring event scheduled for May 2024 at the Site.
- **Section 7, References**, provides a list of the documents cited in this report.

2.0 TREATMENT SYSTEM OPERATION, MAINTENANCE, AND OPTIMIZATION

This section provides details regarding the O&M and optimization of the current AS/SVE system in the central area of the Site during the reporting period. The areas targeted by the AS/SVE system include both the former source area(s) and areas down-gradient beyond the immediate influence of the AS wells in the central area of the Site (Figures 2 and 3).

2.1 AS/SVE SYSTEM OPERATION, MAINTENANCE, AND OPTIMIZATION

Routine O&M of the AS/SVE system was conducted bimonthly to optimize system performance. O&M parameters typically consisted of the following:

- AS compressor motor frequency, amperage, and total run time;
- SVE blower motor frequency, amperage, and total run time;
- SVE system total vacuum and flow rate;
- SVE system exhaust temperature;
- SVE well air flow, vacuum, and vapor volatile organic compound concentration measured by a photoionization detector;
- AS system pressure and temperature from the pre- and post-cooling piping array; and
- AS well airflow and pressure.

A summary of AS/SVE system operational parameters is provided in Tables 1 and 2. Based on the flow rates from or to individual AS and SVE wells and the pressure to individual AS wells, AS/SVE system operational settings were adjusted periodically to optimize flow and pressure to treat COCs in the subsurface more efficiently. The current operating AS wells include CAS-1, CAS-2, and CAS-14 through CAS-20, and the current operating SVE wells include CSVE-1, CSVE-5, CSV-7, CSVE-9, and CSVE-10. AS/SVE system operational parameters for the reporting period are summarized as follows:

- Operating time (run time) totaled approximately 2,830 hours for the AS compressor SVE blower (July 13 to December 1, 2023);
- Total vacuum for the SVE system ranged from 11.8 to 16.5 inches of water;
- The total flow rate for the SVE system ranged from 69.49 to 78.93 standard cubic feet per minute;

- Total AS system pressure ranged from 15.3 to 17.2 pounds per square inch; and
- The total AS system flow rate ranged from 29.4 to 29.7 standard cubic feet per minute.

During the reporting period, no repairs or maintenance were required to optimize operation of the AS/SVE system. The AS/SVE system was shut down remotely prior to the November 2023 groundwater monitoring event on November 26, 2023 and was turned back on remotely on December 1, 2023 following completion of groundwater sampling.

SVE system effluent air samples were collected on September 29 and November 14, 2023 during the O&M Site visits. The air samples were collected from the SVE system exhaust stack for each event using a 1-liter Summa canister and were delivered under standard chain-of-custody protocols to Friedman and Bruya, Inc. of Seattle, Washington (F&B) for analysis of COCs by U.S. Environmental Protection Agency Method TO-15. Analytical results from the SVE system effluent air sampling are provided in Table 3. The laboratory analytical reports are provided in Appendix B. SVE system effluent air sampling data and the amount of benzene removed by the SVE system during the reporting period are summarized as follows:

- GRO was detected at concentrations ranging from 3.90 to 9.90 nanoliters per microliter in the effluent air samples collected on September 29 and November 14, 2023;
- BTEX constituents were not detected at concentrations exceeding the laboratory practical quantitation limits in the effluent air samples collected on September 29 and November 14, 2023;
- The calculated amount of benzene removed during the reporting period is estimated at 0.001 pound, for an estimated total benzene removal of 2.84 pounds since starting up the AS/SVE system in June 2019 (Table 1); and
- The calculated amount of GRO removed during this period is estimated at 26.57 pounds, for an estimated total GRO removal of 171.21 pounds since starting up the AS/SVE system in June 2019 (Table 1).[2]

[2] Note that the calculated amount of GRO removed that was reported in the First and Second Quarter 2023 Groundwater Monitoring and Treatment System Operation and Maintenance Report dated September 12, 2023 was understated and represented only the GRO mass removed during that reporting period versus the cumulative total. The cumulative total has been included in this report.

3.0 GROUNDWATER MONITORING METHODS

This section summarizes the sampling protocols and the selected monitoring wells and analyses for the November 2023 monitoring event conducted at the Site.

3.1 SAMPLING PROTOCOLS

Groundwater samples were collected on November 27 and 28, 2023 using low-flow sampling methods, as described in the Ecology-approved Performance Monitoring Plan, from monitoring wells CMW-2, CMW-8, CMW-10, CMW-12, CMW-13, CMW-25 through CMW-31, HMW-9 through HMW-11, and HMW-13. Monitoring well locations are provided on Figure 2. Before sampling was initiated, groundwater elevations and dissolved-oxygen content in groundwater also were measured in the monitoring wells listed above, on November 27, 2023. The groundwater elevation at each monitoring well was also measured during sampling. The depth to groundwater in each monitoring well was measured to the nearest 0.01 foot using an electronic water-level measuring device from the surveyed location on the top of the well casing. Measurements of dissolved-oxygen levels in groundwater were obtained using an InsiteIG Model 3100 dissolved-oxygen analyzer and optical fluorescence down-hole probe. Depth-to-groundwater measurements and the water-level elevations obtained prior to sampling for the groundwater monitoring events conducted from January 2018 through November 2023 are presented in Table 4, and the November 2023 elevations are shown on Figure 4.

Before the monitoring wells were purged, the intake of the dedicated polyethylene tubing was placed in the approximate middle of the saturated portion of the well screen. Before sampling was initiated, groundwater was purged from each monitoring well at flow rates ranging from 120 to 130 milliliters per minute. Groundwater quality parameters for temperature, specific conductivity, dissolved oxygen, and oxidation-reduction potential (ORP) were recorded during purging using a YSI Model ProDSS water quality analyzer equipped with a flow-through cell. Water quality parameter geochemical measurements are summarized in Table 5 and include the dissolved-oxygen measurements collected with the InsiteIG Model 3100 dissolved-oxygen analyzer and optical fluorescence down-hole probe. Groundwater samples were collected after the pH, temperature, and specific conductivity measurements stabilized. Stabilization was determined for pH as a change of +/-0.1 pH unit between readings for three consecutive measurements, and for temperature and specific

conductivity as a relative percent difference of less than 3 percent between readings for three consecutive measurements.

Following stabilization of the water quality parameters, samples were collected by pumping groundwater directly from each monitoring well through dedicated polyethylene tubing into laboratory-prepared containers, with care taken to minimize turbulence. Care was taken to not handle the container seal or lid when the samples were placed into the containers. The containers were filled to eliminate headspace, and the seal and the lid were secured. The samples were placed on ice in a cooler under standard chain-of-custody protocols, and delivered to OnSite Environmental Inc. of Redmond, Washington (OnSite) for laboratory analysis.

3.2 SELECTED MONITORING WELLS AND ANALYSES

Groundwater samples collected from monitoring wells CMW-2, CMW-8, CMW-10, CMW-12, CMW-13, CMW-25 through CMW-31, HMW-9 through HMW-11, and HMW-13 were analyzed for the following:

- DRO and ORO by Northwest Method NWTPH-Dx with and without silica gel cleanup procedure. Sulfuric acid was not used as part of the silica gel cleanup procedure.
- GRO by Northwest Method NWTPH-Gx.
- BTEX constituents by U.S. Environmental Protection Agency Method 8021B.

On October 20, 2021, Ecology stated that DRO and ORO groundwater samples collected during future monitoring events could be analyzed both with and without using the silica gel cleanup procedure in accordance with recent Ecology (2021) guidance. Details of the Ecology request were provided in the email regarding CHS Quarterly Progress Report 7/1 through 9/30/2021 dated October 20, 2021 from Jerome Cruz of Ecology to Javan Ruark of Farallon (Ecology 2021). The purpose of the silica gel cleanup procedure is to evaluate whether polar metabolites resulting from biodegradation of the dissolved DRO plume are present and contributing to the DRO values in the analysis conducted without the silica gel cleanup procedure.

Field duplicate groundwater samples were collected from monitoring wells CMW-12 and CMW-27 for quality assurance/quality control (QA/QC) purposes.

3.1 WASTE HANDLING AND DISPOSAL

Wastewater generated during purging of the monitoring wells was temporarily stored in a labeled 55-gallon drum in a secure area of the Site.

On January 15, 2024, ACTenviro of Seattle, Washington transported a total of six 55-gallon drums of purge water for disposal. All wastes generated at the Site associated with the cleanup action are designated as nonhazardous waste, based on analytical testing results. Waste disposal documentation is provided in Appendix A.

4.0 GROUNDWATER MONITORING RESULTS

This section presents groundwater elevations, geochemical parameters and data, and laboratory analytical results from the November 2023 monitoring event, and the data validation conducted.

4.1 GROUNDWATER ELEVATIONS

Groundwater elevations measured in the Site monitoring wells on November 27, 2023 ranged from 63.92 feet above mean sea level in monitoring well CMW-8 to 65.08 feet above mean sea level in monitoring well CMW-30 (Figure 4, Table 4). The groundwater flow direction was northeast, which is consistent with the historical groundwater flow direction. The average horizontal hydraulic gradient was 0.001 foot per foot. Groundwater elevations measured on November 27, 2023 were approximately 3 feet lower on average than those measured during the previous monitoring event, conducted in May 2023 (Table 4).

4.2 GROUNDWATER ANALYTICAL RESULTS

The analytical results from the November 2023 monitoring event are discussed in the following sections. Comparison of analytical results for DRO, ORO, GRO, and BTEX constituents with MTCA Method A groundwater cleanup levels, which were established as the Site cleanup levels in the Final Cleanup Action Plan, is shown in Table 6. Comparison of analytical results for DRO and ORO with and without the silica gel cleanup procedure to MTCA Method A groundwater cleanup levels is shown in Table 7. Analytical results for DRO, ORO, GRO, and BTEX constituents for the November 2023 monitoring event are presented on Figure 5. Analytical results for DRO and ORO with and without the silica gel cleanup procedure for the November 2023 monitoring event are presented on Figure 6. The laboratory analytical reports are provided in Appendix B.

4.2.1 Diesel-Range Organics

In groundwater samples analyzed without the silica gel cleanup procedure, DRO was detected at concentrations exceeding the MTCA Method A cleanup level of 0.5 milligram per liter (mg/L) in groundwater samples collected from six of the 16 monitoring wells sampled (Tables 6 and 7) and in the QA/QC duplicate sample collected from monitoring well CMW-27. Concentrations of DRO exceeding the MTCA Method A cleanup level ranged from 0.61 mg/L in the groundwater sample collected from monitoring well CMW-28 to 4.2 mg/L in the groundwater sample collected from monitoring well HMW-11.

For samples analyzed using the silica gel cleanup procedure, DRO was detected at or exceeding the MTCA Method A cleanup level of 0.5 mg/L in two of the 16 monitoring wells sampled (Tables 6 and 7) and in the QA/QC duplicate sample collected from monitoring well CMW-27. Concentrations of DRO at or exceeding the MTCA Method A cleanup level analyzed with silica gel cleanup procedure ranged from 0.50 mg/L in the groundwater sample collected from monitoring well HMW-11 to 0.75 mg/L in the QA/QC duplicate groundwater sample collected from monitoring well CMW-27.

4.2.2 Oil-Range Organics

For the samples analyzed without the silica gel cleanup procedure, ORO was detected at concentrations exceeding the MTCA Method A cleanup level of 0.5 mg/L in groundwater samples collected from five of the 16 monitoring wells sampled (Tables 6 and 7) and in the QA/QC duplicate sample collected from monitoring well CMW-27. Concentrations of ORO exceeding the MTCA Method A cleanup level ranged from 0.58 mg/L in the groundwater sample collected from monitoring well CMW-10 to 1.5 mg/L in the groundwater sample collected from monitoring well CMW-2.

For the samples analyzed using the silica gel cleanup procedure, ORO was not detected at a concentration exceeding the MTCA Method A cleanup level of 0.5 mg/L during the November 2023 monitoring event (Table 7).

4.2.3 Gasoline-Range Organics and Benzene, Toluene, Ethylbenzene, and Xylenes

GRO was detected at concentrations exceeding the MTCA Method A cleanup level of 800 micrograms per liter (µg/L) in the groundwater sample collected from monitoring well CMW-27 and the QA/QC duplicate sample collected from monitoring well CMW-27. Concentrations of GRO exceeding the MTCA Method A cleanup level ranged from 810 µg/L in the groundwater sample collected from monitoring well CMW-27 to 840 µg/L in the QA/QC sample collected from monitoring well CMW-27 (Table 6).

BTEX constituents were not detected at concentrations exceeding MTCA Method A cleanup levels in the groundwater samples collected from Site monitoring wells during the November 2023 sampling event.

4.2.4 Groundwater Geochemical Parameters and Data

Table 5 shows the dissolved-oxygen levels in groundwater measured on November 27, 2023 before purging of groundwater was conducted, and the final groundwater quality parameters recorded during purging of groundwater prior to sample collection (summarized below):

- Groundwater temperatures ranged from 10.6 to 12.5 degrees Celsius;
- pH values ranged from 5.80 to 6.48;
- Oxidation-reduction potential values ranged from -16.9 to 367.1 millivolts; and
- Dissolved-oxygen concentrations ranged from 0.45 to 6.18 mg/L.

4.3 DATA VALIDATION

Farallon reviewed the analytical data package provided by OnSite, laboratory reference No. 2311-247. The groundwater samples from this group were analyzed for DRO, ORO, GRO, and BTEX constituents by the analytical methods described in Section 3.2, Selected Monitoring Wells and Analyses. The groundwater samples were analyzed within the prescribed method holding times. The QA/QC testing performed by OnSite included surrogate recovery, method blank, and spike blank/spike blank duplicate samples. Results from the QA/QC testing were within established laboratory control limits. Based on Farallon's review of the QA/QC data generated during the November 2023 monitoring event, the groundwater analytical results are acceptable for use in characterizing groundwater quality at the Site relative to the groundwater quality cleanup levels used for comparative purposes in this report. The laboratory analytical reports for the groundwater samples analyzed by OnSite are provided in Appendix B.

Farallon reviewed the analytical data packages provided by F&B for air samples collected in September and November 2023 analyzed for GRO and BTEX constituents by the analytical methods described in Section 2.1, AS/SVE System Operation, Maintenance, and Optimization. The air samples were analyzed within the prescribed method holding time. The QA/QC testing performed by F&B included surrogate recovery, method blank, duplicate, and laboratory control samples. Results from the QA/QC testing were within established laboratory control limits. Based on Farallon's review of the QA/QC data generated during the September and November 2023 monitoring event, the air analytical results are acceptable for use in characterizing effluent concentrations recovered by the AS/SVE system. The laboratory analytical reports for the air samples analyzed by F&B are provided in Appendix B.

5.0 DISCUSSION

This section provides a summary of the distribution of DRO, ORO, GRO, and BTEX constituents detected in groundwater at the Site during the November 2023 monitoring event and a comparison of the current conditions with the monitoring events conducted in 2018 and 2019 before the start-up of the reconfigured AS/SVE system in June 2019. Trends in COC concentrations relative to groundwater elevation changes since 2018 also are discussed where trends appear evident. Data trends of select COC concentrations in groundwater for key monitoring wells are shown on Charts 1 through 8. The DRO and ORO results provided in the discussion and used to construct the charts are for samples analyzed without the silica gel cleanup procedure.

DRO and/or ORO were detected at concentrations exceeding MTCA Method A cleanup levels in groundwater samples collected from six of the 16 monitoring wells sampled during the November 2023 monitoring event, and GRO was detected at a concentration exceeding the MTCA Method A cleanup level in one of the 16 monitoring wells sampled (Figure 5). BTEX constituents were not detected at concentrations exceeding the MTCA Method A cleanup levels in the groundwater samples collected from the monitoring wells sampled during the November 2023 monitoring event.

The DRO and ORO analytical results from the November 2023 monitoring event suggest that dissolved-phase DRO and ORO concentrations detected in groundwater samples collected from the Site are highly weathered and consist mainly of polar metabolites from the breakdown of DRO and ORO. In general, DRO and/or ORO were not detected at concentrations exceeding the MTCA Method A cleanup levels in the groundwater samples analyzed from monitoring wells sampled in November 2023 at the Site using the silica gel cleanup procedure (Figure 6, Table 7). Guidance on the use of silica gel cleanup procedures and applicable cleanup levels was recently revised and finalized in November 2023 (Ecology 2023). Application of the recently updated silica gel cleanup guidance to the Site will be discussed with Ecology.

The expanded area of influence of the reconfigured AS/SVE system appears to continue to mobilize dissolved-phase DRO/ORO and associated polar metabolites from the smear zone soil, as shown by a general increase in DRO and ORO concentrations in groundwater following the AS/SVE system start-up in June 2019 in monitoring wells CMW-10, CMW-13, CMW-27, CMW-28, and HMW-11 (Charts 2, 4, 5, 6, and 8). Increases in concentrations of

DRO and ORO in monitoring wells CMW-12 and CMW-13 generally have correlated with seasonally higher groundwater elevations since reconfigured system start-up (Charts 3 and 4).

GRO concentrations in groundwater have shown a decrease to less than the MTCA Method A cleanup level in monitoring wells CMW-12 and HMW-11 following operation of the AS/SVE system (Charts 3 and 8). However, GRO at concentrations exceeding the MTCA Method A cleanup level have been detected in groundwater samples collected from monitoring well CMW-27 seasonally over the last 2 years and generally have correlated with lower groundwater elevations. When groundwater elevations are higher, the concentration of GRO detected in groundwater samples collected from monitoring well CMW-27 has not exceeded the MTCA Method A cleanup level (Table 6, Chart 5).

Except for intermittent shut-downs, the current configuration of the AS/SVE system has operated continuously from start-up in June 2019 through December 2023 and has removed a total of 2.84 pounds of benzene and 171.21 pounds of GRO from the vadose zone at the Site. The mass of benzene removed by the AS/SVE system has decreased to asymptotic levels since June 2019. The AS/SVE system no longer is removing significant benzene mass from the vadose zone (Table 1, Chart 9). The current AS/SVE system is continuing to remove some GRO from the vadose zone (Table 1, Chart 9).

Given the decreased mass removal by the AS/SVE system and general increase in DRO/ORO and associated polar metabolite concentrations in groundwater following the AS/SVE system start-up at select wells, a shut-down to evaluate the effects on COCs in groundwater, including the generation of polar metabolites from ongoing biodegradation processes, appears to be warranted. The potential for shutting down the AS/SVE system to evaluate the effect of system operation on COC concentrations in groundwater has been discussed with Ecology; it is understood that Ecology is in general agreement that a system shut-down evaluation is reasonable. A plan for shutting down the AS/SVE system and evaluating the effect on groundwater quality will be prepared and submitted to Ecology for review and approval.

6.0 ONGOING AND PLANNED ACTIVITIES

As detailed in Table 3 in the Final Cleanup Action Plan, quarterly performance groundwater monitoring and routine O&M of the AS/SVE system were conducted for the first four quarters following start-up of the AS/SVE system and were to be conducted semiannually thereafter. The November 2023 monitoring event was the seventh semiannual groundwater monitoring event; the eighth semiannual monitoring event is scheduled for May 2024.

Given the likely AS/SVE shut-down evaluation, the frequency and scope of groundwater monitoring activities at the Site will be assessed and potentially adjusted in consultation with Ecology during the AS/SVE system shut-down period. A technical memorandum detailing the proposed AS/SVE system shut-down and groundwater quality evaluation criteria will be prepared and submitted to Ecology for review in February 2024.

7.0 REFERENCES

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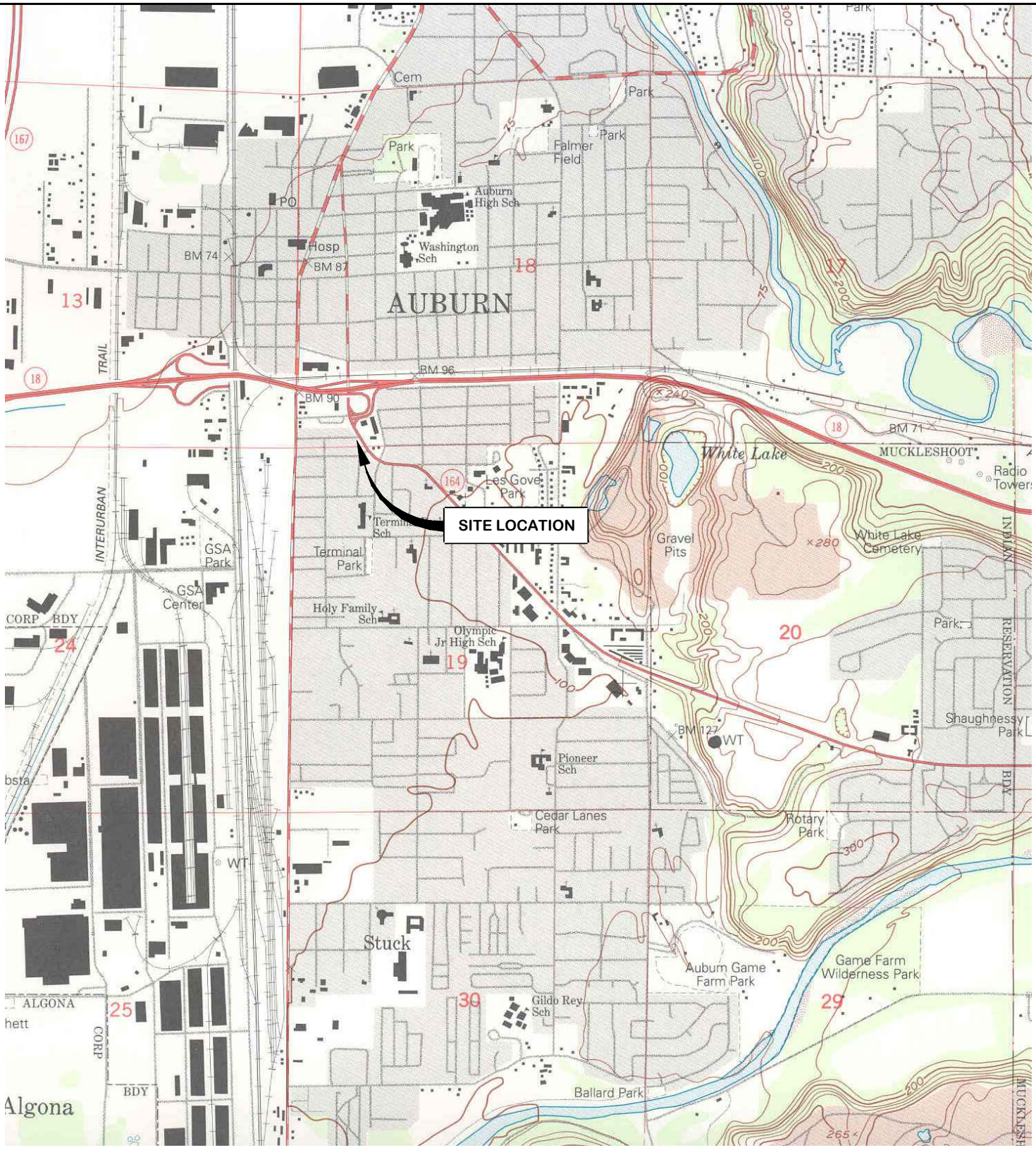
FIGURES

THIRD AND FOURTH QUARTER 2023
GROUNDWATER MONITORING AND TREATMENT SYSTEM
OPERATION AND MAINTENANCE REPORT
CHS Auburn Site
Auburn, Washington

Farallon PN: 301-004



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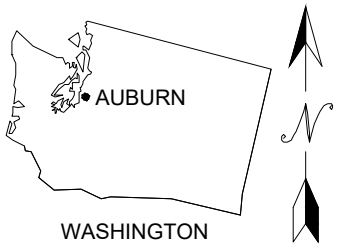

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FIGURE 1

SITE VICINITY MAP
CHS AUBURN SITE
AUBURN, WASHINGTON

FARALLON PN: 301-004

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STATE ROUTE - 18

AUBURN WAY SOUTH

6th STREET SOUTHEAST

7th STREET SOUTHEAST

8th STREET SOUTHEAST

FIRE HOUSE SQUARE

D STREET SOUTHEAST

C STREET SOUTHEAST

SCHUCKS

MCDONALD'S

THAI RESTAURANT

AS/SVE EQUIPMENT BUILDING

CSVE-9 WSIADA

BIG-O TIRES

CHS AUBURN FACILITY

CHS MAIN BUILDING

CMW-20 CMW-23 CMW-22 CMW-19 DAS-13 DAS-14 DSVE-15 DSVE-16 CMW-32 CMW-14 CMW-17 CMW-21 CMW-9 CMW-15 CMW-8 CMW-31 CMW-5 HMW-12 HMW-9 HMW-5 HMW-6 HMW-8 HMW-10 CMW-12 CRW-2 HMW-11 CMW-7 CAS-14 CAS-15 CMW-27 CAS-17 CAS-16 CAS-18 CAS-20 CMW-6 CMW-13 CMW-2 CAS-19 CAS-3 CAS-21 CAS-1 CSVE-1 CSVE-10 CMW-10 CAS-2 CRW-1 CMW-11 CSVE-7 CAS-12 CAS-22 CAS-4 CSVE-8 CAS-10 CAS-11 CAS-13 CSVE-4 CAS-5 CMW-25 CAS-8 CMW-28 CSVE-6 CAS-9 CAS-7 CSVE-5 HMW-13 CMW-4 CMW-29 CMW-26 CMW-3 CMW-1 CMW-30 CMW-24 HMW-14

0 100

APPROXIMATE SCALE IN FEET

LEGEND

CMW-25	CHS MONITORING WELL
CRW-2	CHS RECOVERY WELL
HMW-13	HILLMAN MONITORING WELL
CAS-13	AS WELL AS/SVE CENTRAL SYSTEM
DAS-13	AS WELL AS/SVE DOWN-GRADIENT SYSTEM (LOST)
CSVE-3	SVE WELL AS/SVE CENTRAL SYSTEM
DSVE-16	SVE WELL AS/SVE DOWN-GRADIENT SYSTEM (LOST)
CMW-9	LOST OR ABANDONED MONITORING WELL
RED	NON-OPERATIONAL WELL

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FIGURE 2

SITE PLAN
CHS AUBURN SITE
AUBURN, WASHINGTON

FARALLON PN: 301-004

Drawn By: NM Checked By: JR Date: 1/3/2023 Disk Reference: 301-004

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7th STREET SOUTHEAST

CRW–2
HMW–11
CAS–14
CAS–15
CAS–17
CAS–16
CAS–18
CMW–27
CSVE–9
AUBURN WAY SOUTH
CMW–13
WSIADA
CAS–20
CAS–19
CSVE–10
CAS–21
CMW–2
CAS–1
CSVE–1
CAS–2
CAS–3
CMW–10
CMW–11
CRW–1
CAS–22
CAS–12
CSVE–7
CAS–4
CAS–10
CSVE–8
CAS–11
CSVE–4
CAS–5
AS/SVE EQUIPMENT BUILDING
CAS–13
CMW–28
THAI RESTAURANT
CMW–25
CAS–8
CAS–7
CSVE–5
CSVE–6
CAS–9

8th STREET SOUTHEAST

LEGEND

CMW–25	CHS MONITORING WELL
CRW–2	CHS RECOVERY WELL
HMW–13	HILLMAN MONITORING WELL
CAS–13	AS WELL AS/SVE CENTRAL SYSTEM
CSVE–3	SVE WELL AS/SVE CENTRAL SYSTEM
CAS–12 CSVE–7	DUAL COMPLETION SVE AND AS SYSTEM WELL
RED	NON-OPERATIONAL WELL

0 30
APPROXIMATE SCALE IN FEET

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FIGURE 3

SITE PLAN SHOWING DETAIL OF THE
CENTRAL AREA OF THE SITE
CHS AUBURN SITE
AUBURN, WASHINGTON

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STATE ROUTE - 18

AUBURN WAY SOUTH

6th STREET SOUTHEAST

7th STREET SOUTHEAST

8th STREET SOUTHEAST

D STREET SOUTHEAST

C STREET SOUTHEAST

FIRE HOUSE SQUARE

SCHUCKS

MCDONALD'S

WSIADA

THAI RESTAURANT

AS/SVE EQUIPMENT BUILDING

BIG-O TIRES

CHS AUBURN FACILITY

CHS MAIN BUILDING

CMW-19

CMW-32

CMW-17

CMW-21

CMW-15

CMW-8 (63.92)

CMW-31 (64.02)

64.00

CMW-5

HMW-9 (64.11)

64.25

HMW-10 (64.26)

CMW-12 (64.45)*

64.50

HMW-11

CMW-6

CMW-27 (64.56)

CMW-13 (64.45)

CMW-2 (64.80)

CMW-10

CMW-11

CMW-25

CMW-28 (64.72)

64.75

HMW-13 (64.85)

CMW-29 (64.90)

CMW-4

CMW-26 (64.90)

65.00

CMW-3

CMW-30 (65.08)

CMW-24

HMW-14

LEGEND

CMW-26 — CHS MONITORING WELL

HMW-13 — HILLMAN MONITORING WELL

(68.27) — GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL

68.22 — GROUNDWATER ELEVATION CONTOUR DASHED WHERE INFERRED

APPROXIMATE DIRECTION OF GROUNDWATER FLOW

* = INDICATES GROUNDWATER ELEVATION FROM SAMPLING PURGE FORM

0 100

APPROXIMATE SCALE IN FEET

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FIGURE 4

GROUNDWATER ELEVATION CONTOUR MAP
NOVEMBER 2023
CHS AUBURN SITE
AUBURN, WASHINGTON

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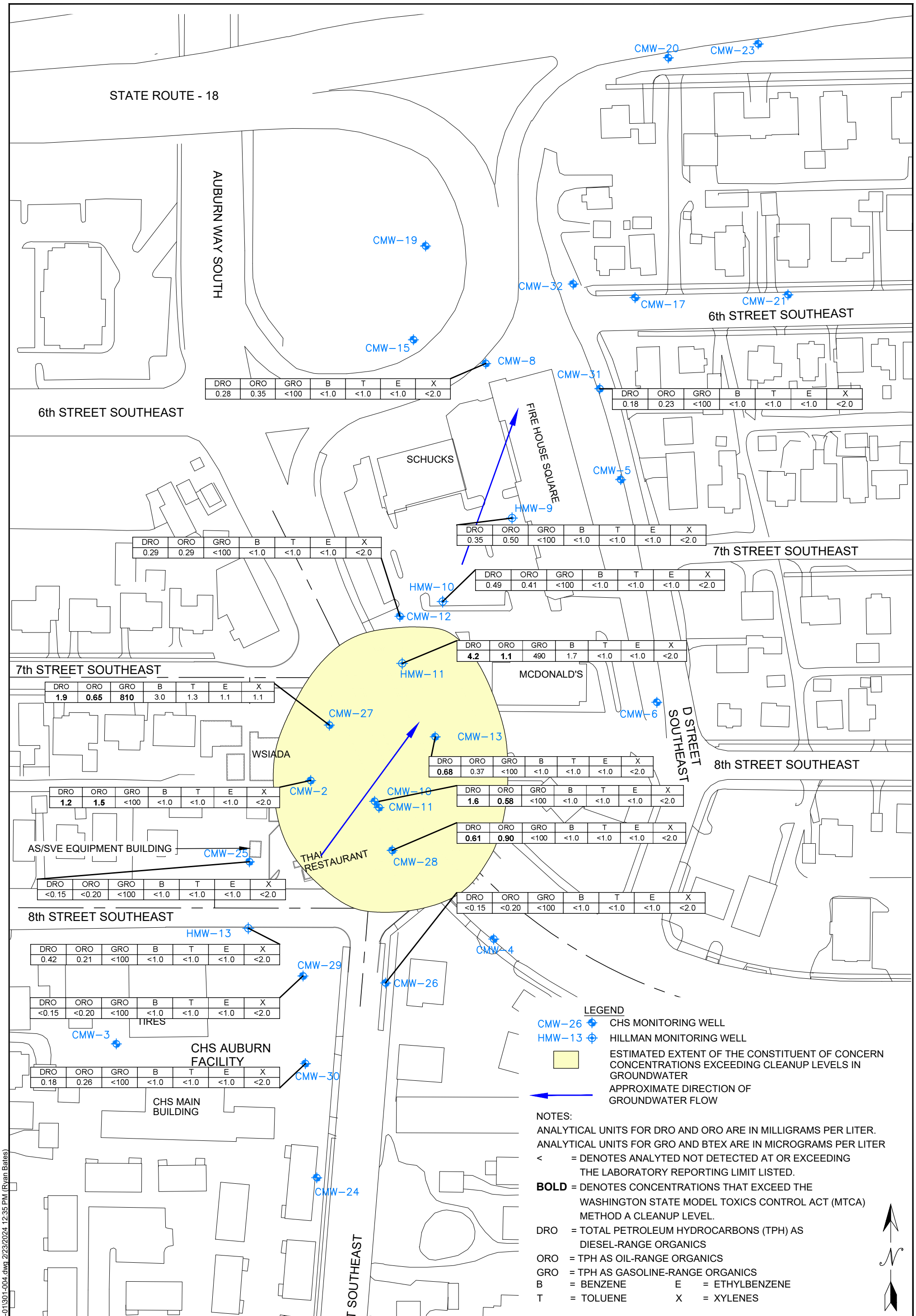

DRO	ORO	GRO	B	T	E	X
0.28	0.35	<100	<1.0	<1.0	<1.0	<2.0

DRO	ORO	GRO	B	T	E	X
0.18	0.23	<100	<1.0	<1.0	<1.0	<2.0

DRO	ORO	GRO	B	T	E	X
0.35	0.50	<100	<1.0	<1.0	<1.0	<2.0

DRO	ORO	GRO	B	T	E	X
0.29	0.29	<100	<1.0	<1.0	<1.0	<2.0

DRO	ORO	GRO	B	T	E	X
0.49	0.41	<100	<1.0	<1.0	<1.0	<2.0

DRO	ORO	GRO	B	T	E	X
4.2	**1.1**	490	1.7	<1.0	<1.0	<2.0

DRO	ORO	GRO	B	T	E	X
1.9	**0.65**	**810**	3.0	1.3	1.1	1.1

DRO	ORO	GRO	B	T	E	X
0.68	0.37	<100	<1.0	<1.0	<1.0	<2.0

DRO	ORO	GRO	B	T	E	X
1.2	**1.5**	<100	<1.0	<1.0	<1.0	<2.0

DRO	ORO	GRO	B	T	E	X
1.6	**0.58**	<100	<1.0	<1.0	<1.0	<2.0

DRO	ORO	GRO	B	T	E	X
0.61	**0.90**	<100	<1.0	<1.0	<1.0	<2.0

DRO	ORO	GRO	B	T	E	X
<0.15	<0.20	<100	<1.0	<1.0	<1.0	<2.0

DRO	ORO	GRO	B	T	E	X
<0.15	<0.20	<100	<1.0	<1.0	<1.0	<2.0

DRO	ORO	GRO	B	T	E	X
0.42	0.21	<100	<1.0	<1.0	<1.0	<2.0

DRO	ORO	GRO	B	T	E	X
<0.15	<0.20	<100	<1.0	<1.0	<1.0	<2.0

DRO	ORO	GRO	B	T	E	X
0.18	0.26	<100	<1.0	<1.0	<1.0	<2.0

LEGEND

CMW-26 CHS MONITORING WELL

HMW-13 HILLMAN MONITORING WELL

ESTIMATED EXTENT OF THE CONSTITUENT OF CONCERN CONCENTRATIONS EXCEEDING CLEANUP LEVELS IN GROUNDWATER

APPROXIMATE DIRECTION OF GROUNDWATER FLOW

NOTES:

ANALYTICAL UNITS FOR DRO AND ORO ARE IN MILLIGRAMS PER LITER.

ANALYTICAL UNITS FOR GRO AND BTEX ARE IN MICROGRAMS PER LITER

< = DENOTES ANALYTED NOT DETECTED AT OR EXCEEDING THE LABORATORY REPORTING LIMIT LISTED.

BOLD = DENOTES CONCENTRATIONS THAT EXCEED THE WASHINGTON STATE MODEL TOXICS CONTROL ACT (MTCA) METHOD A CLEANUP LEVEL.

DRO = TOTAL PETROLEUM HYDROCARBONS (TPH) AS DIESEL-RANGE ORGANICS

ORO = TPH AS OIL-RANGE ORGANICS

GRO = TPH AS GASOLINE-RANGE ORGANICS

B = BENZENE E = ETHYLBENZENE

T = TOLUENE X = XYLENES

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FIGURE 5

NOVEMBER 2023 GROUNDWATER ANALYTICAL RESULTS
FOR DRO, ORO, GRO, AND BTEX
CHS AUBURN SITE
AUBURN, WASHINGTON

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STATE ROUTE - 18

AUBURN WAY SOUTH

6th STREET SOUTHEAST

7th STREET SOUTHEAST

8th STREET SOUTHEAST

SCHUCKS

FIRE HOUSE SQUARE

MCDONALD'S

WSIADA

THAI RESTAURANT

AS/SVE EQUIPMENT BUILDING

CHS AUBURN FACILITY

D STREET SOUTHEAST

C STREET SOUTHEAST

CMW-19

CMW-15

CMW-20

CMW-23

CMW-32

CMW-17

CMW-21

CMW-8

CMW-31

CMW-5

HMW-9

HMW-10

CMW-12

CRW-2

HMW-11

CMW-27

CMW-13

CMW-6

CMW-2

CMW-10

CMW-11

CMW-25

CMW-28

HMW-13

CMW-29

CMW-4

CMW-26

CMW-3

CMW-30

CMW-24

HMW-14

WITHOUT SILICA GEL		WITH SILICA GEL	
DRO	ORO	DRO	ORO
0.28	0.35	<0.20	<0.20

WITHOUT SILICA GEL		WITH SILICA GEL	
DRO	ORO	DRO	ORO
0.18	0.23	<0.21	<0.21

WITHOUT SILICA GEL		WITH SILICA GEL	
DRO	ORO	DRO	ORO
0.35	0.50	<0.20	<0.20

WITHOUT SILICA GEL		WITH SILICA GEL	
DRO	ORO	DRO	ORO
0.49	0.41	<0.20	<0.20

WITHOUT SILICA GEL		WITH SILICA GEL	
DRO	ORO	DRO	ORO
0.29	0.29	<0.21	<0.21

WITHOUT SILICA GEL		WITH SILICA GEL	
DRO	ORO	DRO	ORO
4.2	**1.1**	0.50	<0.20

WITHOUT SILICA GEL		WITH SILICA GEL	
DRO	ORO	DRO	ORO
0.68	0.37	<0.20	<0.20

WITHOUT SILICA GEL		WITH SILICA GEL	
DRO	ORO	DRO	ORO
1.9	**0.65**	**0.51**	<0.20

WITHOUT SILICA GEL		WITH SILICA GEL	
DRO	ORO	DRO	ORO
1.2	**1.5**	<0.20	<0.20

WITHOUT SILICA GEL		WITH SILICA GEL	
DRO	ORO	DRO	ORO
1.6	**0.58**	0.27	<0.20

WITHOUT SILICA GEL		WITH SILICA GEL	
DRO	ORO	DRO	ORO
0.61	**0.90**	<0.20	<0.20

WITHOUT SILICA GEL		WITH SILICA GEL	
DRO	ORO	DRO	ORO
<0.15	<0.20	<0.20	<0.20

WITHOUT SILICA GEL		WITH SILICA GEL	
DRO	ORO	DRO	ORO
0.42	0.21	<0.20	<0.20

WITHOUT SILICA GEL		WITH SILICA GEL	
DRO	ORO	DRO	ORO
<0.15	<0.20	<0.20	<0.20

WITHOUT SILICA GEL		WITH SILICA GEL	
DRO	ORO	DRO	ORO
<0.15	<0.20	<0.20	<0.20

WITHOUT SILICA GEL		WITH SILICA GEL	
DRO	ORO	DRO	ORO
0.18	0.26	<0.20	<0.20

0 100

APPROXIMATE SCALE IN FEET

LEGEND

CMW-26 CHS MONITORING WELL

HMW-13 HILLMAN MONITORING WELL

ESTIMATED EXTENT OF DRO AND/OR ORO ANALYZED WITHOUT SILICA GEL EXCEEDING THE MTCA METHOD A CLEANUP LEVEL OF 0.5 MILLIGRAMS PER LITER IN GROUNDWATER.

ESTIMATED EXTENT OF DRO AND/OR ORO ANALYZED WITH SILICA GEL EXCEEDING THE MTCA METHOD A CLEANUP LEVEL OF 0.5 MILLIGRAMS PER LITER IN GROUNDWATER

APPROXIMATE DIRECTION OF GROUNDWATER FLOW

NOTES:

ANALYTICAL UNITS FOR DRO AND ORO ARE IN MILLIGRAMS PER LITER.

< = DENOTES ANALYTE NOT DETECTED AT OR EXCEEDING THE LABORATORY REPORTING LIMIT LISTED.

BOLD = INDICATES CONCENTRATION EXCEEDS WASHINGTON STATE MODEL TOXICS CONTROL ACT CLEANUP REGULATION (MTCA) METHOD A CLEANUP LEVEL

DRO = TOTAL PETROLEUM HYDROCARBONS (TPH) AS DIESEL-RANGE ORGANICS

ORO = TPH AS OIL-RANGE ORGANICS

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FIGURE 6

NOVEMBER 2023 GROUNDWATER ANALYTICAL RESULTS FOR DRO AND ORO WITH AND WITHOUT SILICA GEL CLEANUP PROCEDURE
CHS AUBURN SITE
AUBURN, WASHINGTON

FARALLON PN: 301-004

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TABLES

THIRD AND FOURTH QUARTER 2023
GROUNDWATER MONITORING AND TREATMENT SYSTEM
OPERATION AND MAINTENANCE REPORT
CHS Auburn Site
Auburn, Washington

Farallon PN: 301-004

Table 1
SVE System and Well Data
Cenex Auburn Site
Auburn, Washington
Farallon PN: 301-004

Date	Time	System Vacuum, pre-KO (IOW)	System Vacuum, post-KO (IOW)	System Flow Rate, Stack (dp)	System Flow Rate, Stack (SCFM)	Total Blower Run Time (hours)	Blower Running (Amps)	Blower Frequency (Hz)	Blower Effluent Temperature (F)	VOC Concentration, Vent Stack (ppm)	CSVE-1 Well Vacuum (IOW)	CSVE-1 Flow Rate (dp)	CSVE-1 Thermal Anemometer (FPM)	CSVE-1 Flow Rate (SCFM)	CSVE-1 PID Reading (ppm)	CSVE-5 Well Vacuum (IOW)	CSVE-5 Flow Rate (dp)	CSVE-5 Thermal Anemometer (FPM)	CSVE-5 Flow Rate (SCFM)	CSVE-5 PID Reading (ppm)	CSVE-7 Well Vacuum (IOW)	CSVE-7 Flow Rate (dp)	CSVE-7 Thermal Anemometer (FPM)	CSVE-7 Flow Rate (SCFM)	CSVE-7 PID Reading (ppm)	CSVE-9 Well Vacuum (IOW)	CSVE-9 Flow Rate (dp)	CSVE-9 Thermal Anemometer (FPM)	CSVE-9 Flow Rate (SCFM)	CSVE-9 PID Reading (ppm)	CSVE-10 Well Vacuum (IOW)	CSVE-10 Flow Rate (dp)	CSVE-10 Thermal Anemometer (FPM)	CSVE-10 Flow Rate (SCFM)	CSVE-10 PID Reading (ppm)	Benzene Analytical Results (µg/m^3)	Benzene Analytical Results (nL/mL)	Benzene Concentration[1] (mg/m^3)	Benzene Removal Rate[2] (lbs/day)	Amount of Benzene Removed Between Testing[3] (lbs)	Total Amount of Benzene Removed to Date[4] (lbs)	GRO Analytical Results (µg/m^3)	GRO Analytical Results (nL/mL)	GRO Concentration[1] (mg/m3)	GRO Removal Rate[2] (lbs/day)	Amount of GRO Removed Between Testing[3] (lbs)	Total Amount of GRO Removed to Date[4] (lbs)
5/29/2019	1210	6.0	--	0.32	133	--	--	--	--	130	6.0	0.157	--	23.46	62	6.0	0.355	--	35.28	50	6.0	0.015	--	7.25	250	6.0	0.204	--	26.75	35	5.6	0.315	--	33.23	1.2	--	--	--	--	--	--	--	--	--	--	--	--
	1240	6.0	--	0.32	133	--	--	--	--	32	5.8	0.210	--	27.14	42	5.6	0.330	--	34.02	17.9	6.0	0.023	--	8.98	110	6.0	0.210	--	27.14	24	6.0	0.340	--	34.53	1.0	--	--	--	--	--	--	--	--	--	--	--	--
	1400	5.8	--	0.306	130	--	--	--	--	18.5	5.8	0.210	--	27.14	30.2	5.9	0.410	--	37.92	4.8	6.0	0.032	--	10.6	44	6.0	0.190	--	25.81	19.5	5.2	0.320	--	33.50	1.3	--	--	--	--	--	--	--	--	--	--	--	--
	1500	5.9	--	0.32	133	--	--	--	--	23	5.2	0.210	--	27.14	21	5.5	0.370	--	36.02	4	5.4	0.020	--	8.37	16	5.7	0.200	--	26.48	95	6.0	0.330	--	34.02	1.4	--	<0.31	0.49	5.9142E-03	--	--	--	<21	--	0.000	--	--
6/13/2019	1415	--	0.1	--	--	87	2.7	50	--	14	8.5	0.210	--	27.1	3.2	5.0	0.320	--	33.5	1.8	4.1	0.050	--	13.24	0.1	4.7	0.200	--	26.50	56	5.0	0.320	--	33.50	1.4	--	--	--	--	--	--	--	--	--	--	--	--
6/24/2019	--	--	--	--	130[1]	351	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.72	2.30	2.6873E-01	2.01	2.01	--	--	--	--	--	--
7/16/2019	--	--	--	--	--	440	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7/18/2019	1540	3.8	--	0.31	131	498	2.7	50	95	44	3.4	0.100	--	18.73	0.3	3.2	0.380	--	36.5	5.8	3.3	0.160	--	23.69	34.4	3.5	0.110	--	19.64	165	3.4	0.160	-	23.69	48.1	0.578	--	0.0006	6.8065E-06	0.821	2.8297	32800	--	32.8	0.3862	2.361	2.361
8/23/2019	1130	4.4	--	0.32	128	643	2.8	50	95	21	4.0	0.159	--	23.12	87.7	3.8	0.532	--	42.3	6.1	4.1	0.020	--	8.20	7.3	4.2	0.143	--	21.92	12.5	4.0	0.239	-	28.35	0.0	0.372	--	0.0004	4.2893E-06	0.000	2.8297	2650	--	2.65	0.0306	1.259	3.620
9/18/2019	945	4.2	--	0.25	114	769	2.7	50	--	3.7	3.8	0.157	--	23.35	19.2	3.6	0.440	--	39.11	0.9	3.9	0.025	--	9.32	1.0	3.9	0.145	--	22.44	1.2	3.8	0.246	-	29.23	0.0	-	--	--	--	--	--	--	--	--	--	--	--
9/23/2019	930	4.8	--	0.26	117	887	2.7	50	90	71.9	4.3	0.177	--	24.78	32.2	4.1	0.584	--	45.02	2.8	4.5	0.032	--	10.53	181	4.5	0.166	--	23.99	235.2	4.5	0.165	-	23.92	33.9	<0.286	--	0.0001	1.5058E-06	0.000	2.8298	151000	--	151	1.5901	8.242	11.862
10/22/2019	1120	13.1	--	0.29	122	1585	2.9	50	90	23.8	13.0	0.219	--	27.27	12.8	11.9	1.482	--	71.03	2.8	12.3	0.129	--	20.94	121	12.5	0.039	--	11.51	20.7	13.1	0.004	-	3.68	0.4	<2.86	--	0.0014	1.5732E-05	0.000	2.8300	110000	--	110	1.2102	40.715	52.576
11/27/2019	1045	17.4	--	0.18	97	2237	3.0	50	80	1.3	14.5	0.251	--	29.13	2.7	14.3	2.165	--	85.59	0.4	14.2	0.123	--	20.40	1.1	17.3	0.004	--	3.66	0.8	16.7	0.022	-	8.60	0.4	-	--	--	--	--	--	--	--	--	--	--	--
12/18/2019	1010	10.2	--	0.17	95	2280	2.3	40	--	0.6	10.3	0.032	--	10.46	0.1	9.8	1.500	--	71.65	0.1	10.4	0.018	--	7.84	0.1	10.9	0.003	--	3.20	0.1	10.2	0.005	-	4.13	0.1	<0.286	--	0.0001	1.2167E-06	0.000	2.8303	837	--	0.84	0.0071	17.628	70.204
2/4/2020	1000	16.8	--	0.12	82	3432	2.4	40	--	--	16.2	0.410	--	37.15	--	15.7	0.670	--	47.53	--	17.2	0.003	--	3.17	--	16.4	0.000	--	0.00	--	17.1	0.003	-	3.17	--	<0.286	--	0.0001	1.0522E-06	0.000	2.8303	105	--	0.11	0.0008	0.189	70.394
2/21/2020	1200	--	--	--	--	3842	2.7	40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-	--	--	--	--	--	--	--	--	--	--	--
2/26/2020	930	28.8	--	0.06	57	3842	2.7	40	80	0.1	24.8	0.272	--	29.84	0.0	27.3	0.021	--	8.29	0.0	27.5	0.070	--	15.14	0.0	27.2	0.101	--	18.18	0.3	27.4	0.010	-	5.72	0.2	-	--	--	--	--	--	--	--	--	--	--	--
4/1/2020	910	11.9	--	0.14	85	4680	2.3	40	75	0.2	11.4	2.464	--	91.64	0.1	10.4	0.612	--	45.73	0.2	11.5	0.067	--	15.11	0.1	11.5	0.832	--	53.24	0.1	11.7	0.081	-	16.61	0.1	<0.286	--	0.0001	1.0958E-06	0.000	2.8304	43.6	--	0.04	0.0003	0.029	70.422
5/7/2020	820	7.8	--	0.19	101	5450	2.2	40	81	0.0	7.2	0.260	--	29.93	0.3	7.1	1.030	--	59.57	0.2	7.0	0.003	600	3.22	0.3	7.7	0.007	670	4.91	0.2	7.4	0.000	395	0.00	0.3	<0.286	--	0.0001	1.2934E-06	0.000	2.8304	29.5	--	0.03	0.0003	0.010	70.432
6/2/2020	852	5.9	--	0.20	102	6011	2.2	40	--	0.0	5.6	0.219	--	27.52	0.0	5.2	0.748	--	50.89	0.0	6.5	0.013	--	6.70	0.0	5.8	0.113	--	19.76	0.2	6.0	0.003	-	3.22	0.0	<0.286	--	0.0001	1.3142E-06	0.000	2.8304	234	--	0.23	0.0022	0.028	70.460
7/31/2020	1200	5.0	--	0.20	102	7175	2.2	40	--	0.0	4.6	0.187	--	25.46	0.0	4.3	0.701	--	49.32	0.0	4.8	0.000	--	0.00	0.0	4.7	0.182	--	25.12	0.0	4.8	0.000	-	0.00	0.0	-	--	--	--	--	--	--	--	--	--	--	--
8/5/2020	1100	4.8	--	0.20	103	7179	2.2	40	--	--	4.5	0.190	--	25.31	--	4.1	0.700	--	48.61	--	4.7	0.000	215	5.01	--	4.6	0.190	1370	25.30	--	4.7	0.000	205	4.78	--	-	--	--	--	--	--	--	--	--	--	--	--
10/2/2020	1245	5.1	--	0.21	105	8293	2.2	40	85	1.9	4.8	0.187	--	25.46	8.4	4.5	0.753	--	51.10	0.2	5.0	0.000	--	6.41	0.0	4.9	0.172	--	24.41	0.1	5.0	0.000	-	6.06	0.1	-	--	--	--	--	--	--	--	--	--	--	--
11/6/2020	900	11.7	--	0.17	94	9129	2.3	40	78	0.9	10.9	0.085	--	16.95	2.5	9.7	1.440	--	69.87	0.0	10.9	0.000	556.8	12.98	0.0	11.5	0.028	--	9.72	0.0	10.9	0.000	572.4	13.34	0.0	-	--	0.0001	1.2117E-06	0.000	2.8306	1580	--	1.58	0.0134	1.010	71.470
12/9/2020	1309	13.5	--	0.15	90	9775	2.4	40	78	0.7	13.9	0.061	4700	14.38	0.1	12.3	1.660	--	76.28	0.5	12.8	0.000	627	14.61	0.1	13.8	0.000	645	15.03	0.2	12.9	0.000	609	14.19	0.1	-	--	--	--	--	--	--	--	--	--	--	--
1/7/2021	1049	14.9	--	0.185	99	10314	2.4	40	--	0.1	13.8	0.139	--	21.78	1.1	13.2	1.660	--	75.05	0.0	14.4	0.000	--	--	0.0	14.2	0.000	--	--	0.0	14.6	0.000	-	--	0.0	-	--	--	--	--	--	--	--	--	--	--	--
3/2/2021	1400	18.9	--	0.077	64	11602	2.5	40	--	0.0	17.8	0.216	--	26.91	0.0	17.0	0.611	--	45.31	0.0	18.3	0.000	795	18.53	0.0	17.8	0.000	774	18.04	0.1	18.2	0.000	806	18.78	0.2	<0.319	--	0.0002	9.1417E-07	0.000	2.8307	<164	--	0.0820	0.0005	0.714	72.184
4/7/2021	930	10.1	--	0.112	80	12460	2.3	40	63	0.0	9.8	0.203	--	26.36	0.0	9.1	1.216	--	64.56	0.1	10.0	0.000	249	5.80	0.0	10.2	0.000	266	6.2	0.0	10.2	0.000	254	5.92	0.0	-	--	--	--	--	--	--	--	--	--	--	--
5/17/2021	930	8.1	--	0.115	78	13393	2.2	40	69	0.0	7.5	0.320	205	33.19	0.0	7.1	1.020	--	59.28	0.0	7.8	0.000	--	4.78	0.0	8.1	0.000	208	4.85	0.0	8.0	0.000	201	4.68	0.0	<2.6	--	0.0013	9.1520E-06	0.000	2.8311	58000	--	58.0	0.4083	15.255	87.438
6/15/2021	1100	7.9	--	0.111	77	13834	2.2	40	75	0.1	7.4	0.315	--	32.93	0.0	7.0	1.015	--	59.14	0.0	7.7	0.000	200	4.66	0.0	7.8	0.000	196	4.57	0.0	7.8	0.007	200	4.91	0.0	<5.8	--	0.0029	2.0082E-05	0.000	2.8314	85000	--	85.0	0.5886	9.157	96.596
8/25/2021	1240	7.9	--	0.133	85	14237	2.2	40	--	1.3	7.3	0.333	--	33.86	3.2	6.9	1.074	--	60.85	0.2	7.7	0.000	--	--	0.0	7.8	0.000	--	--	0.0	7.8	0.000	-	--	0.0	--	--	0.0010	7.2536E-06	0.000	2.8316	3600	--	3.6	0.0275	5.177	101.772
10/13/2021	1205	11.4	--	0.135	85	15268	2.3	40	81	2.0	10.9	0.118	--	20.07	3.9	10.1	1.411	--	69.46	0.0	11.1	0.000	730	17.00	0.0	11.2	0.000	905	21.09	0.0	11.2	0.000	1511	35.2	0.0	--	--	--	--	--	--	--	--	--	--	--	--
1/3/2022	1330	16.5	--	0.119	79	16682	2.4	40	77	0.0	16.2	0.048	--	12.71	0.2	14.7	1.553	--	72.45	0.2	15.5	0.000	696	16.22	0.2	15.9	0.000	685	15.96	0.2	16.0	0.000	752	17.52	0.1	--	--	--	--	--	--	--	--	--	--	--	--
2/23/2022	1135	12.6	--	0.157	97	17904	2.3	40	72	0.0	12.6	0.251	--	29.20	0.1	11.7	0.894	--	55.18	0.0	12.9	0.000	500	11.65	0.0	12.8	0.000	260	6.06	0.0	12.8	0.000	290	6.76	0.0	<1.9	--	0.0010	8.2746E-06	0.001	2.8328	6900	--	6.9	0.0601	6.692	108.464
5/12/2022	915	9.2	--	0.167	94	19747	2.2	40	82	0.1	8.7	0.286	--	31.33	0.0	8.2	1.025	--	59.34	0.1	8.9	0.000	467	10.88	0.0	9.1	0.000	482	11.23	0.0	9.0	0.000	490	11.42	0.0	<1.5	--	0.0008	6.3538E-06	0.001	2.8340	<1500	--	0.8	0.0064	2.551	111.015

Table 1
SVE System and Well Data
Cenex Auburn Site
Auburn, Washington
Farallon PN: 301-004

Date	Time	System Vacuum, pre-KO (IOW)	System Vacuum, post-KO (IOW)	System Flow Rate, Stack (dp)	System Flow Rate, Stack (SCFM)	Total Blower Run Time (hours)	Blower Running (Amps)	Blower Frequency (Hz)	Blower Effluent Temperature (F)	VOC Concentration, Vent Stack (ppm)	CSVE-1 Well Vacuum (IOW)	CSVE-1 Flow Rate (dp)	CSVE-1 Thermal Anemometer (FPM)	CSVE-1 Flow Rate (SCFM)	CSVE-1 PID Reading (ppm)	CSVE-5 Well Vacuum (IOW)	CSVE-5 Flow Rate (dp)	CSVE-5 Thermal Anemometer (FPM)	CSVE-5 Flow Rate (SCFM)	CSVE-5 PID Reading (ppm)	CSVE-7 Well Vacuum (IOW)	CSVE-7 Flow Rate (dp)	CSVE-7 Thermal Anemometer (FPM)	CSVE-7 Flow Rate (SCFM)	CSVE-7 PID Reading (ppm)	CSVE-9 Well Vacuum (IOW)	CSVE-9 Flow Rate (dp)	CSVE-9 Thermal Anemometer (FPM)	CSVE-9 Flow Rate (SCFM)	CSVE-9 PID Reading (ppm)	CSVE-10 Well Vacuum (IOW)	CSVE-10 Flow Rate (dp)	CSVE-10 Thermal Anemometer (FPM)	CSVE-10 Flow Rate (SCFM)	CSVE-10 PID Reading (ppm)	Benzene Analytical Results (µg/m^3)	Benzene Analytical Results (nL/mL)	Benzene Concentration[1] (mg/m^3)	Benzene Removal Rate[2] (lbs/day)	Amount of Benzene Removed Between Testing[3] (lbs)	Total Amount of Benzene Removed to Date[4] (lbs)	GRO Analytical Results (µg/m^3)	GRO Analytical Results (nL/mL)	GRO Concentration[1] (mg/m3)	GRO Removal Rate[2] (lbs/day)	Amount of GRO Removed Between Testing[3] (lbs)	Total Amount of GRO Removed to Date[4] (lbs)
5/26/2022	1404	8.2	--	0.18	98	19943	2.3	40	83	--	7.8	0.286	--	31.36	--	7.7	1.070	--	60.67	--	8.5	0.000	60	1.40	--	8.6	0.000	55	1.28	--	8.6	0.000	58	1.35	--	--	--	--	--	--	--	--	--	--	--	--	--
8/10/2022	1020	8	--	0.172	94	21485	2.2	40	95	0.0	7.7	0.303	--	31.68	0.0	7.2	0.993	--	57.39	0.0	7.9	0.000	466	10.86	0.0	8.0	0.000	482	11.23	0.0	8.0	0.000	481	11.21	0.0	<3.5	--	0.0018	1.4865E-05	0.001	2.8347	3800	--	3.8	0.0323	1.399	112.414
10/10/2022	1420	8.1	--	0.133	83	22868	2.2	40	94	0.5	7.7	0.298	--	32.02	1.2	7.2	0.995	--	58.54	0.2	7.9	0.000	401	9.34	0.0	8.0	0.000	406	9.46	0.0	8.0	0.000	414	9.65	0.0	<2.8	--	0.0014	1.0469E-05	0.001	2.8352	34000	--	34.0	0.2543	8.251	120.665
12/16/2022	1200	15.5	--	0.126	88	24186	2.4	40	77	16.3	15.3	0.000	765	17.83	0.0	13.6	2.180	--	85.96	9.5	15.3	0.000	777	18.11	0.0	15.5	0.000	773	18.02	0.0	15.5	0.000	793	18.48	0.0	<5.1	--	0.0026	2.0213E-05	0.002	2.8367	18000	--	18.0	0.1427	10.899	131.564
12/29/2022	11:30	--	--	--	--	24421	2.4	40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1/6/2023	1320	--	--	--	--	24553	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1/26/2023	1153	16.8	--	0.165	99	24553	2.5	40	68	--	16.5	0.000	788	18.36	--	14.8	2.234	--	91.43	--	16.6	0.004	786	18.32	--	16.7	0.001	799	18.62	--	16.7	0.000	785	18.29	--	--	--	--	--	--	--	--	--	--	--	--	--
2/27/2023	1200	--	--	--	--	24946	2.4	40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3/10/2023	903	15.6	--	0.136	86	25207	2.4	40	70	0.0	15.3	0.000	781	18.19	0.0	13.7	1.993	--	82.18	0.0	15.4	0.000	912	21.24	0.0	15.5	0.000	915.8	21.34	0.0	15.5	0.000	896	20.88	0.0	5.4	--	0.0054	4.1726E-05	0.001	2.8380	2700	--	2.7	0.0209	3.481	135.045
3/17/2023	1345	13.9	--	0.136	88	25376	2.4	40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4/10/2023	1439	--	--	--	--	25891	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5/11/2023	1315	14.7	14.7	0.119	80	26631	2.3	40	92	0.0	14.4	0.000	619	14.42	0.0	12.9	2.158	--	85.6	0.0	14.4	0.000	627	14.61	0.0	14.6	0.000	652	15.19	0.0	14.6	0.000	625	14.56	0.0	<2.5	--	0.0013	8.9540E-06	0.0015	2.8395	12000	--	12	0.0860	3.169	138.214
5/22/2023	1200	--	--	--	--	26670	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7/12/2023	1150	32.5	--	0.064	57.5	27702	2.7	40	97	0.0	31.7	0.000	544	12.68	0.0	5.2	0.845	2974	54.08	0.0	31.8	0.000	683	15.92	0.0	31.9	0.000	688	16.03	0.0	31.7	0.000	676	15.75	0.0	<2.6	--	0.0013	6.7225E-06	0.0003	2.8399	39000	--	39	0.2017	6.420	144.634
8/2/2023	1030	--	--	--	--	28145	2.3	40	--	--	12.8	0.754	857	19.97	--	2.4	0.350	1806	42.08	--	13.4	0.000	489	11.4	--	13.5	0.000	517	12.05	--	13.4	0.000	645	15.03	--	--	--	--	--	--	--	--	--	--	--	--	--
9/29/2023	1021	11.8	--	0.151	78.93	29427	2.4	40	80	10.8	13.4	0.726	2608	49.62	12.3	2.9	0.348	1796	34.81	0.4	13.9	0.000	502	11.7	0.2	14.1	0.000	460	10.72	0.1	14.1	0.000	410	9.55	0.1	<2.7	--	0.0014	9.5829E-06	0.0006	2.8405	40000	--	40	0.2839	17.448	162.081
11/14/2023	1015	16.5	--	0.091	69.49	30532	2.4	40	75	4.4	15.6	0.981	248	57.52	4.0	4.00	0.395	2153	37.03	0.0	16.4	0.000	782	18.22	0.0	16.2	0.000	896	20.88	0.0	16.3	0.000	818	19.06	0.0	<2.7	--	0.0014	8.4368E-06	0.0004	2.8409	18000	--	18	0.1125	9.126	171.207

NOTES:

+flow rate not measured, assumed value for performance calculation.

-- denotes not collected

CALCULATIONS:

[1] Benzene concentration (mg/m^3) = either µg/L = mg/m^3 or (ppmv)*3.19

[2] Benzene removal rate (lbs/day) = (Flow rate scfm)*(Benzene concentration mg/m^3)*(1/35.3 m^3/ft^3)*(1,440 minutes/day)*(1/453,592.4 lbs/mg)

[3] Benzene removed (lbs) = average (Benzene removal rate lbs/day)*(operating hours between sampling events) (1 day/24 hours)

[4] Total Amount Removed to Date (lbs) = Previous Total Amount Removed + Amount Removed Between Sampling Events

dp = differential pressure
F = degrees Fahrenheit
ft^3 = cubic feet
Hz = hertz
IOW = inches of water
L = liter
lbs = pounds
KO = knockout
m^3 = cubic meters
µg = microgram
mg = milligram
mL - milliliter
nL = nanoliter
ppm = parts per million measured by photoionization detector (PID) calibrated using isobutylene span gas
ppmv = parts per million volume
psi = pounds per square inch
SCFM = standard cubic feet per minute
SVE = soil vapor extraction
VOC = volatile organic compound

Table 2
AS System and Well Data
Cenex Auburn Site
Auburn, Washington
Farallon PN: 301-004

Date	Time	Compressor Total Run Time (hrs)	Compressor Running Amps	Compressor Frequency (Hz)	Pre-Cooling Temperature (F)	Post-Cooling Temperature (F)	System Pressure (psi)	CAS-1		CAS-2		CAS-3		CAS-4		CAS-5		CAS-7		CAS-12		CAS-14		CAS-15		CAS-16		CAS-17		CAS-18		CAS-19		CAS-20		CAS-21		CAS-22		TOTAL Flow Rate (SCFM)
								Well Pressure (psi)	Flow Rate (SCFM)	Well Pressure (psi)	Flow Rate (SCFM)	Well Pressure (psi)	Flow Rate (SCFM)	Well Pressure (psi)	Flow Rate (SCFM)	Well Pressure (psi)	Flow Rate (SCFM)	Well Pressure (psi)	Flow Rate (SCFM)	Well Pressure (psi)	Flow Rate (SCFM)	Well Pressure (psi)	Flow Rate (SCFM)	Well Pressure (psi)	Flow Rate (SCFM)	Well Pressure (psi)	Flow Rate (SCFM)	Well Pressure (psi)	Flow Rate (SCFM)	Well Pressure (psi)	Flow Rate (SCFM)	Well Pressure (psi)	Flow Rate (SCFM)	Well Pressure (psi)	Flow Rate (SCFM)	Well Pressure (psi)	Flow Rate (SCFM)	
5/29/2019	1415	–	–	–	152	105	9.2	0.0	2.8	9.9	0.8	8.3	0.9	9.8	0.0	8.9	0.0	3.0	3.1	10.3	0.0	9.1	6.2	8.2	2.9	8.9	3.2	9.9	0.0	9.0	3.7	6.7	3.2	5.9	2.9	6.8	3.1	8.1	3.0	35.8
	1600	–	–	–	–	–	–	8.9	0.6	9.1	0.8	7.7	2.8	9.3	0.7	8.0	3.1	3.0	3.0	10.2	0.6	6.0	3	7.0	2.9	7.7	3.3	9.1	0.8	6.2	3.1	5.5	3.2	4.0	3.1	5.5	3.0	7.0	3.4	37.4
6/13/2019	1415	70.0	8.3	60	–	–	9.0	9.2	0.0	9.2	0.0	5.3	3.3	9	3	7.5	3	9.5	1.7	0.0	0.0	5.2	2.9	6.8	2.5	7.1	2.9	9.2	1.2	5.9	3.2	5	3	4.3	2.9	5.3	2.4	6.9	3.0	35.0
7/18/2019	1540	496.0	8.3	60	160	120	10.0	8.9	0.0	9.0	0.0	7.1	3.1	9.0	3.3	7.5	2.9	9.1	2.3	0.0	0.0	5.0	2.5	6.8	2.7	7.0	2.9	9.7	1.7	5.0	2.9	4.5	3.0	4.2	3.0	5.0	2.4	7.0	2.5	35.2
7/19/2019	1230	517.8	8.3	60	155	110	10.9	9.8	0.0	9.0	0.0	8.0	3.1	9.0	3.7	8.0	2.9	10.9	2.8	0.0	0.0	5.5	2.6	7.0	2.7	7.2	3.0	9.7	1.7	5.9	3.0	5.0	3.0	5.0	3.1	5.4	2.4	7.0	2.5	36.5
8/23/2019	1130	641.0	8.5	60	155	114	10.2	9.6	0.0	9.0	0.0	7.8	2.9	9.0	2.3	7.9	3.0	10.1	3.4	10.0	0.0	5.1	2.5	7.0	2.8	7.1	2.9	9.1	1.7	5.7	3.0	4.9	3.0	5.0	3.1	5.2	2.4	7.0	2.7	35.7
9/18/2019	1005	766.8	8.3	60	145	105	11.2	10.0	0.0	9.0	0.0	8.1	3.4	9.0	2.6	8.3	3.5	10.1	3.7	10.0	0.0	5.7	2.6	7.1	2.9	7.5	3.1	9.6	2.2	6.1	3.1	5.2	3.1	5.3	2.9	5.8	2.2	7.8	0.0	35.3
9/23/2019	1030	885.1	8.3	60	147	104	11.4	10.0	0.0	9.0	0.0	8.4	3.5	9.1	3.0	8.6	2.9	10.1	3.2	10.0	0.0	5.9	2.7	7.2	2.8	7.7	3.2	9.9	2.3	6.0	3.1	5.2	3.1	5.5	2.9	5.9	2.3	7.4	0.0	35.0
10/22/2019	1205	1583	8.3	60	147	105	12.2	10.5	0.0	9.1	0.0	9.1	3.5	9.8	3.2	9.0	3.4	10.2	3.2	10.0	0.0	6.2	2.6	8.0	2.9	8.2	3.1	10.1	2.4	7.0	3.0	6.0	3.1	6.2	2.8	6.0	2.2	8.0	2.6	38.0
	1355	–	–	–	–	–	–	Closed		9.1	2.9	9.0	2.9	9.7	2.8	9.0	3.4	10.2	2.4	10.2	1.6	6.2	2.5	8.0	2.9	8.1	3.0	10.0	2.4	7.0	3.0	6.0	3.0	6.1	2.8	6.0	2.2	8.0	2.6	40.4
11/27/2019	1045		8.6	60	95	55	14.7	Closed		10.8	3.3	11.0	3.2	11.0	2.7	11.1	3.1	10.8	1.9	10.6	1.9	8.0	2.6	9.7	2.7	9.8	3.0	11.2	1.6	9.0	3.0	8.0	2.8	8.9	2.8	7.5	1.9	9.9	2.7	39.2
12/18/2019	1010	2278	8.3	60	135	92	12.0	Closed		9.9	3.5	10.0	3.5	10.5	2.8	10.1	3.1	11.0	1.2	10.6	1.9	7.1	2.7	9.0	2.8	9.0	3.2	11.0	1.9	8.0	3.1	7.0	2.8	7.1	2.8	6.9	1.9	8.9	2.7	39.9
2/4/2020	1030	3430	8.5	60	150	98	14.0	Closed		12.4	3.5	12.2	2.9	13.0	2.6	12.3	3.0	13.1	1.2	13.0	1.9	9.4	2.5	11.0	2.6	11.2	3.0	13.0	2.0	9.9	2.9	9.0	2.6	9.2	2.7	9.1	1.8	11.0	2.7	37.9
2/21/2020	1200	3840	8.6	60	160	110	–	–		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
2/26/2020	930	3840	8.8	60	150	100	15.0	Closed		14.5	3.5	14.6	3.2	14.5	2.6	15.0	3.5	13.5	2.4	13.5	1.7	11.0	1.5	13.0	2.1	13.0	3.0	15.0	1.6	12.5	2.7	11.5	2.6	12.2	2.8	10.5	1.7	13.3	2.6	37.5
4/1/2020	910	4679	8.5	60	150	106	14.0	Closed		12.2	3.3	12.0	3.2	12.6	2.5	12.0	3.5	12.9	2.3	12.9	1.7	9.0	1.7	10.9	2.2	11.0	3.0	12.9	1.7	9.5	2.9	8.8	2.6	9.0	2.8	8.9	1.7	10.9	2.6	37.7
5/7/2020	910	5448	8.4	60	150	111	13.6	Closed		11.9	3.5	11.3	3.2	12.1	2.5	11.3	3.5	12.3	2.3	12.2	1.7	8.3	1.1	10.1	2.1	10.4	3.0	12.1	1.9	8.8	2.7	8.0	2.6	8.1	2.9	8.1	1.7	10.1	2.6	37.3
6/2/2020	852	6009	8.4	60	155	110	13.2	Closed		11.5	3.4	11.1	3.1	11.9	2.5	11.1	3.5	12.0	2.3	11.9	1.9	7.9	1.2	9.7	2.2	10.0	3.0	12.0	2.0	8.4	2.7	7.8	2.5	8.0	2.8	7.8	1.7	9.9	2.6	37.4
7/31/2020	1200	7173	8.4	60	155	113	13.2	Closed		10.2	4.6	10.2	3.3	10.9	2.6	10.4	3.5	11.3	1.9	11.1	1.8	6.8	1.2	8.3	2.2	9.1	2.9	11.9	2.0	7.0	2.7	6.2	2.5	7.1	2.8	7.0	1.7	9.0	2.0	37.7
8/5/2020	1100	7177	8.6	60	148	110	13.8	Closed		7.3	3.0	11.1	2.9	11.3	2.5	11.4	2.8	11.2	2.6	11.0	2.2	7.2	1.0	9.1	2.2	10.0	2.9	11.5	2.5	8.9	2.7	7.6	2.5	8.8	2.7	7.7	1.7	9.8	2.0	36.2
10/2/2020	1245	8291	8.3	60	155	110	12.2	Closed		4.9	2.9	10.2	2.8	10.8	2.5	10.0	3.2	10.8	3.2	10.5	2.7	6.2	1.2	8.7	2.2	9.2	2.9	11.1	2.6	7.9	2.7	6.8	2.5	7.8	2.9	6.4	1.8	8.9	1.9	38.0
11/6/2020	900	9128	8.3	60	145	95	12.5	Closed		5.6	3.0	11.4	3.1	11.3	2.5	11.1	3.2	11.0	3.0	10.8	2.7	7.1	1.1	9.7	2.2	10.0	3.0	11.9	2.6	9.0	2.7	8.0	2.4	9.1	3.0	7.2	1.7	9.8	1.8	38.0
12/9/2020	1309	9768	8.4	60	150	100	13.5	Closed		Closed		11.7	3.3	11.5	2.3	11.5	3.7	11.6	4.0	11.1	2.7	8.9	1.1	10.0	2.1	10.2	3.0	12.3	3.1	8.9	2.7	7.9	2.4	8.8	3.0	7.9	1.9	9.9	1.8	37.1
1/7/2021	1049	10307	8.6	60	135	81	14.1	Closed		Closed		13.8	3.1	13.1	2.4	13.9	3.4	14.0	3.1	14.0	2.7	9.9	2.1	12.0	2.3	12.1	3.0	14.1	3.0	11.5	2.6	10.1	2.4	11.1	3.0	9.5	1.6	11.7	1.7	36.4
2/1/2021	1400	–	–	–	160	105	15.1	12.8	0.6	13.1	0.6	13.2	3.0	13.1	2.4	13.3	3.2	14.0	3.4	14.0	2.8	9.4	1.9	11.4	2.3	12.0	3.0	13.9	3.0	10.3	2.6	9.7	2.3	10.6	2.9	9.6	1.8	11.7	1.7	37.5
3/2/2021	1400	11595	8.6	60	160	107	15.1	12.9	0.6	13.1	0.6	13.2	3.0	13.2	2.4	13.3	3.2	14.2	3.5	14.2	2.8	9.5	1.9	11.5	2.2	12.0	3.0	14.0	3.0	10.2	2.7	9.7	2.3	10.3	2.9	9.6	1.7	11.8	1.7	37.5
4/7/2021	930	12454	8.5	60	155	100	15.0	12.2	0.0	13.0	0.0	12.7	3.3	12.9	2.3	13.1	3.0	14.1	2.2	14.0	2.2	9.0	2.0	11.9	2.4	11.1	3.0	13.4	3.4	9.8	2.7	8.9	2.3	9.9	3.1	8.9	1.9	11.0	1.7	35.5
5/17/2021	930	13386	8.4	60	159	110	14.0	11.1	0.0	11.9	0.8	11.7	3.3	12.0	2.1	12.0	3.0	13.2	2.3	13.0	2.7	8.0	1.9	9.9	2.3	10.2	3.0	12.5	3.3	8.6	2.7	8.9	2.3	8.9	3.1	9.0	1.9	9.9	1.7	36.4
6/15/2021	1100	13827	8.4	60	165	120	14.0	11.1	0.0	11.5	0.9	11.5	3.1	11.9	2.2	11.2	3.1	12.9	2.4	12.1	2.7	7.9	1.9	9.9	2.3	10.4	2.9	12.6	3.0	8.9	2.7	7.9	2.3	8.4	3.0	7.8	1.9	9.6	1.7	36.1
8/17/2021	1402	14181	9.0	60	183	115	18.5	15.8	0.5	10.1	1.0	Closed		Closed		Closed		Closed		Closed		6.9	3.2	8.9	4.0	10.0	6.0	11.2	4.0	9.1	7.0	7.0	5.1	7.5	4.7	Closed		Closed		35.5
8/25/2021	1240	14230	8.8	60	190	130	17.8	14.2	0.5	9.5	1.4	Closed		Closed		Closed		Closed		Closed		5.9	3.3	7.9	3.8	9.1	5.9	10.4	3.5	8.0	7.5	6.0	5.0	6.1	4.4	Closed		Closed		35.3

Table 2
AS System and Well Data
Cenex Auburn Site
Auburn, Washington
Farallon PN: 301-004

Date	Time	Compressor Total Run Time (hrs)	Compressor Running Amps	Compressor Frequency (Hz)	Pre-Cooling Temperature (F)	Post-Cooling Temperature (F)	System Pressure (psi)	CAS-1		CAS-2		CAS-3		CAS-4		CAS-5		CAS-7		CAS-12		CAS-14		CAS-15		CAS-16		CAS-17		CAS-18		CAS-19		CAS-20		CAS-21		CAS-22		TOTAL Flow Rate (SCFM)
								Well Pressure (psi)	Flow Rate (SCFM)	Well Pressure (psi)	Flow Rate (SCFM)	Well Pressure (psi)	Flow Rate (SCFM)	Well Pressure (psi)	Flow Rate (SCFM)	Well Pressure (psi)	Flow Rate (SCFM)	Well Pressure (psi)	Flow Rate (SCFM)	Well Pressure (psi)	Flow Rate (SCFM)	Well Pressure (psi)	Flow Rate (SCFM)	Well Pressure (psi)	Flow Rate (SCFM)	Well Pressure (psi)	Flow Rate (SCFM)	Well Pressure (psi)	Flow Rate (SCFM)	Well Pressure (psi)	Flow Rate (SCFM)	Well Pressure (psi)	Flow Rate (SCFM)	Well Pressure (psi)	Flow Rate (SCFM)	Well Pressure (psi)	Flow Rate (SCFM)	
10/13/2021	1205	15261	7.9	60	132	96	18.0	Closed		11.0	1.4	Closed		Closed		Closed		Closed		Closed		8.0	3.4	10.1	4.0	11.2	5.9	12.3	3.7	12.5	7.0	9.0	5.0	10.2	4.5	Closed		Closed		34.9
1/3/2022	1330	16676	8.9	60	175	105	19.5	15.6	2.3	13.0	1.3	Closed		Closed		Closed		Closed		Closed		9.9	3.1	12.0	3.7	13.0	5.2	14.1	3.3	12.9	7.1	10.6	4.1	10.8	4.1	Closed		Closed		34.2
2/23/2022	1135	17897	9.1	60	170	110	20.0	18.0	1.9	13.9	1.2	Closed		Closed		Closed		Closed		Closed		10.9	3.1	12.9	3.9	13.5	5.3	14.9	3.6	13.5	7.3	11.1	4.6	11.3	4.2	Closed		Closed		35.1
5/12/2022	915	19740	9.0	60	185	110	20.0	17.5	2.1	13.0	1.3	Closed		Closed		Closed		Closed		Closed		9.5	2.7	11.5	3.9	12.5	5.5	14.0	3.5	12.8	7.2	10.0	4.7	10.6	4.2	Closed		Closed		35.1
5/26/2022	1404	19936	9.1	60	145	86	19.5	16.8	1.0	12.1	2.0	Closed		Closed		Closed		Closed		Closed		10.0	3.4	12.1	3.8	12.8	5.1	14.1	3.2	13.9	6.4	10.2	4.4	10.1	3.9	Closed		Closed		33.2
8/10/2022	1020	21479	8.8	60	185	124	17.9	15.0	1.0	0.0	3.4	Closed		Closed		Closed		Closed		Closed		7.9	3.5	10.0	4.0	10.8	5.3	12.1	3.2	10.2	7.2	8.0	4.5	8.3	4.1	Closed		Closed		36.2
8/10/2022	1200	21491	8.8	60	185	124	–	15.9	1.5	Closed		Closed		Closed		Closed		Closed		Closed		7.9	3.7	10.0	4.3	11.0	5.7	12.0	3.5	10.1	7.6	8.0	4.8	8.4	4.3	Closed		Closed		35.4
10/10/2022	1420	22861	8.7	60	195	124	18.1	15.3	1.0	Closed		Closed		Closed		Closed		Closed		Closed		7.9	3.9	9.8	4.3	10.8	5.9	12.0	3.8	10.5	7.7	7.9	4.8	7.9	4.3	Closed		Closed		35.7
12/16/2022	1200	24179	8.9	60	195	106	19.5	16.9	2.5	Closed		Closed		Closed		Closed		Closed		Closed		9.5	4.0	11.9	4.3	12.1	5.9	13.6	3.8	12.1	7.7	10.1	4.9	8.9	4.3	Closed		Closed		37.4
12/29/2022	1130	24415	9.2	60	-	-	-	-	-	-		-		-		-		-		-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-
3/10/2023	903	24546	0.0	0	-	-	-	-	-	-		-		-		-		-		-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-
3/17/2023	1345	24547	8.9	60	180	116	20.0	17.2	0.1	12.8	1.0	Closed		Closed		Closed		Closed		Closed		10.3	3.7	12.9	4.1	13.0	5.7	14.7	3.5	13.1	7.5	11.0	4.6	9.9	3.6	Closed		Closed		33.8
4/10/2023	1439	25061	-	-	-	-	-	-	-	-	-	Closed		Closed		Closed		Closed		Closed		-	-	-	-	-	-	-	-	-	-	-	-	-	-	Closed		Closed		-
5/11/2023	1315	25801	8.6	50.0	176	112	16.5	13.8	0.5	11.5	0.5	Closed		Closed		Closed		Closed		Closed		9.0	3.1	11.1	3.3	11.2	4.3	13.0	2.4	10.9	6.3	9.1	3.8	7.9	3.0	Closed		Closed		27.2
5/22/2023	1200	25840	-	-	-	-	-	-	-	-		-		-		-		-		-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-
7/12/2023	1150	26873	8.4	50.0	170	120	15.5	12.5	0.5	10.2		Closed		Closed		Closed		Closed		Closed		8.0	3.2	10.0	3.4	10.5	4.5	12.0	2.6	9.5	6.3	8.0	3.9	6.1	3.1	Closed		Closed		28.0
8/2/2023	-	-	-	-	-	-	-	-	-	-		-		-		-		-		-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-
9/29/2023	1021	28597	8.4	50.0	115	78	17.2	13.3	0.7	11.3		Closed		Closed		Closed		Closed		Closed		9.9	3.4	12.1	3.6	12.0	4.7	13.2	2.7	15.0	6.5	11.2	4.0	12.9	3.2	Closed		Closed		29.4
11/14/2023	1015	29702	8.4	50.0	143	90	15.3	13.5	1.0	11.3	0.6	Closed		Closed		Closed		Closed		Closed		9.3	3.3	11.8	3.6	11.9	4.7	13.1	2.7	13.1	6.6	10.2	4.0	9.7	3.2	Closed		Closed		29.7

NOTES:
– denotes not collected

AS = air sparge
dp = differential pressure
hrs = hours
Hz - hertz
F = degrees Fahrenheit
IOW = inches of water
psi = pounds per square inch
SCFM = standard cubic feet per minute

Table 3
Air Analytical Data
Cenex Auburn Site
Auburn, Washington
Farallon PN: 301-004

Sample Location	Sample Identification	Sample Methodology	Sample Date	Analytical Results (nanoliter per microliter [ppmv])				
				Benzene	Toluene	Ethylbenzene	Total Xylenes	GRO
SVE System	EFFLUENT-052919	EPA 2021B	5/29/2019	< 0.31	< 0.26	< 0.23	< 0.46	< 21
	EFFLUENT-062419	EPA 2021B	6/24/2019	0.72	< 0.26	<0.23	< 0.46	< 21
	EFFLUENT-071819	EPA TO-15	7/18/2019	0.000181	0.000623	0.00171	0.0031	8.030[E*]
	EFFLUENT-082319	EPA TO-15	8/23/2019	0.000116	0.000610	0.00287	0.0126	0.647
	EFFLUENT-092319	EPA TO-15	9/23/2019	< 0.0000895	< 0.0004	0.00294	0.0075	36.9[E]
	EFFLUENT-102219	EPA TO-15	10/22/2019	< 0.000895	< 0.0040	< 0.0040	< 0.016	27.0[E]
	EFFLUENT-121819	EPA TO-15	12/18/2019	< 0.0000895	< 0.00040	< 0.00040	< 0.0016	0.205
	EFFLUENT-020420	EPA TO-15	2/4/2020	< 0.0000895	< 0.00040	< 0.00040	< 0.0016	0.026
	EFFLUENT-040120	EPA TO-15	4/1/2020	< 0.0000895	< 0.00040	< 0.00040	< 0.0016	0.011
	EFFLUENT-050720	EPA TO-15	5/7/2020	< 0.0000895	< 0.00040	< 0.00040	< 0.0016	0.007
	EFFLUENT-060220	EPA TO-15	6/2/2020	< 0.0000895	< 0.00040	< 0.00040	< 0.0016	0.057
	EFFLUENT-110620	EPA TO-15	11/6/2020	< 0.0000895	< 0.00040	< 0.00040	< 0.0016	0.385
	INFLUENT-030221	EPA TO-15	3/2/2021	< 0.000100	< 0.00100	< 0.00400	< 0.0060	< 0.040
	INFLUENT-051721	EPA TO-15	5/17/2021	< 0.0008	< 0.04	< 0.0008	0.00323	14
	EFFLUENT-061521	EPA TO-15	6/15/2021	<0.0018	<0.09	<0.0018	<0.0054	21
	EFFLUENT-082521	EPA TO-15	8/25/2021	<0.00061	<0.03	<0.00061	<0.00181	0.87
	INFLUENT-022322	EPA TO-15	2/23/2022	<0.0006	<0.03	<0.0006	0.00210	1.70
	INFLUENT-051222	EPA TO-15	5/12/2022	<0.00046	<0.023	<0.00046	<0.00138	<0.370
	INFLUENT-081022	EPA TO-15	8/10/2022	<0.0011	<0.055	<0.0011	<0.0033	3.80
	INFLUENT-101022	EPA TO-15	10/10/2022	<0.00087	<0.043	0.0012	0.0093	8.30
	OVERALL-121622	EPA TO-15	12/16/2022	<0.0016	<0.080	<0.0016	<0.0048	4.40

Table 3
Air Analytical Data
Cenex Auburn Site
Auburn, Washington
Farallon PN: 301-004

Sample Location	Sample Identification	Sample Methodology	Sample Date	Analytical Results (nanoliter per microliter [ppmv])				
				Benzene	Toluene	Ethylbenzene	Total Xylenes	GRO
SVE System	OVERALL-031023	EPA TO-15	3/10/2023	0.0017	<0.039	<0.00078	<0.00238	0.65
	OVERALL-051123	EPA TO-15	5/11/2023	<0.00078	<0.039	<0.00078	0.00450	2.80
	OVERALL-071223	EPA TO-15	7/12/2023	<0.00082	<0.016	0.0012	0.00770	9.50
	OVERALL-092923	EPA TO-15	9/29/2023	<0.00086	<0.017	<0.00086	<0.00256	9.90
	OVERALL-111423	EPA TO-15	11/14/2023	<0.00084	<0.017	<0.00084	<0.00254	3.90

NOTES:

< denotes analyte not detected at or exceeding the reporting limit listed.

E denotes estimated analytical value, result exceeds the linear working range of the laboratory equipment.

* denotes result not within established laboratory control limits.

EPA = U.S. Environmental Protection Agency

GRO = total petroleum hydrocarbons as gasoline-range organics

ppmv = parts per million volume

SVE = soil vapor extraction

Table 4
Summary of Groundwater Elevation Data – January 2018 through November 2023
CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004

Well Identification	Well Casing (feet)[1]	Measurement Date	Depth to Water (feet)[2]	Elevation (feet)[1]
CMW-2	88.9	1/17/2018	18.52	70.38
		7/31/2018	23.24	65.66
		1/22/2019	20.92	67.98
		8/21/2019	24.51	64.39
		11/25/2019	23.92	64.98
		2/25/2020	16.80	72.10
		5/27/2020	20.77	68.13
		11/11/2020	23.52	65.38
		5/24/2021	21.05	67.85
		11/29/2021	20.07	68.83
		5/26/2022	19.17	69.73
		11/30/2022	23.31	65.59
		5/30/2023	21.01	67.89
		11/27/2023	24.10	64.80
CMW-4	90.68	1/17/2018	20.08	70.60
		7/31/2018	25.60	65.08
CMW-6	90.66	1/17/2018	20.94	69.72
		7/31/2018	dry	dry
CMW-8	89.94	1/17/2018	20.55	69.39
		7/31/2018	25.31	64.63
		1/22/2019	22.95	66.99
		8/21/2019	26.52	63.42
		11/25/2019	25.90	64.04
		2/24/2020	18.88	71.06
		5/27/2020	22.86	67.08
		11/11/2020	25.45	64.49
		5/24/2021	23.12	66.82
		11/29/2021	22.23	67.71
		5/25/2022	21.25	68.69
		11/29/2022	25.55	64.39
		5/30/2023	23.05	66.89
		11/27/2023	26.02	63.92
CMW-10	NS	1/17/2018	18.80	NS
		7/31/2018	23.71	NS
		1/22/2019	21.32	NS
		8/21/2019	24.96	NS
		11/25/2019	24.40	NS
		2/25/2020	17.20	NS
		5/27/2020	21.23	NS
		11/11/2020	24.00	NS
		5/24/2021	21.48	NS
		11/29/2021	20.61	NS
		5/25/2022	19.57	NS
		11/29/2022	24.00	NS
		5/30/2023	21.45	NS
		11/27/2023	24.55	NS

Table 4
Summary of Groundwater Elevation Data – January 2018 through November 2023
CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004

Well Identification	Well Casing (feet)[1]	Measurement Date	Depth to Water (feet)[2]	Elevation (feet)[1]
CMW-12	90.02	1/17/2018	20.12	69.90
		7/31/2018	25.84	64.18
		1/22/2019	22.45	67.57
		8/21/2019	26.07	63.95
		11/25/2019	25.47	64.55
		2/25/2020	18.43	71.59
		5/27/2020	22.35	67.67
		11/11/2020	25.04	64.98
		5/24/2021	22.60	67.42
		11/29/2021	21.77	68.25
		5/25/2022	20.68	69.34
		11/29/2022	25.08	64.94
		5/30/2023	22.55	67.47
		11/27/2023	25.57[3]	64.45
CMW-13	89.67	1/17/2018	19.63	70.04
		7/31/2018	22.48[4]	67.19[4]
		1/22/2019	22.03	67.64
		8/21/2019	25.71	63.96
		11/25/2019	25.06	64.61
		2/25/2020	17.89	71.78
		5/27/2020	21.91	67.76
		11/11/2020	24.65	65.02
		5/24/2021	22.16	67.51
		11/29/2021	21.32	68.35
		5/25/2022	20.33	69.34
		11/29/2022	24.68	64.99
		5/30/2023	22.15	67.52
		11/27/2023	25.22	64.45
CMW-15	87.22	1/17/2018	17.78	69.44
		7/31/2018	22.53	64.69
CMW-25	NS	1/17/2018	18.96	NS
		7/31/2018	23.64	NS
		1/22/2019	21.35	NS
		8/21/2019	24.91	NS
		11/25/2019	24.40	NS
		2/24/2020	17.25	NS
		5/27/2020	21.16	NS
		11/11/2020	23.98	NS
		5/24/2021	21.44	NS
		11/29/2021	20.63	NS
		5/25/2022	19.57	NS
		11/29/2022	23.96	NS
		5/30/2023	21.45	NS
		11/27/2023	24.58	NS

Table 4
Summary of Groundwater Elevation Data – January 2018 through November 2023
CHS Auburn Site
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Well Identification	Well Casing (feet)[1]	Measurement Date	Depth to Water (feet)[2]	Elevation (feet)[1]
CMW-26	87.80	1/17/2018	17.31	70.49
		7/31/2018	21.97	65.83
		1/22/2019	19.64	68.16
		8/21/2019	23.24	64.56
		11/25/2019	22.67	65.13
		2/25/2020	15.56	72.24
		5/27/2020	19.50	68.30
		11/11/2020	22.30	65.50
		5/24/2021	19.74	68.06
		11/29/2021	18.93	68.87
		5/25/2022	17.90	69.90
		11/29/2022	22.30	65.50
		5/30/2023	19.77	68.03
		11/27/2023	22.90	64.90
CMW-27	89.10	1/17/2018	18.79	70.31
		7/31/2018	23.70	65.40
		1/22/2019	21.35	67.75
		8/21/2019	24.96	64.14
		11/25/2019	24.37	64.73
		2/25/2020	17.17	71.93
		5/27/2020	21.22	67.88
		11/11/2020	23.97	65.13
		5/24/2021	21.47	67.63
		11/29/2021	20.68	68.42
		5/25/2022	19.56	69.54
		11/29/2022	24.03	65.07
		5/30/2023	21.46	67.64
		11/27/2023	24.54	64.56
CMW-28	89.48	1/17/2018	19.13	70.35
		7/31/2018	23.89	65.59
		1/22/2019	21.55	67.93
		8/21/2019	25.14	64.34
		11/25/2019	24.56	64.92
		2/24/2020	17.39	72.09
		5/27/2020	21.39	68.09
		11/11/2020	24.15	65.33
		5/24/2021	21.64	67.84
		11/29/2021	20.80	68.68
		5/25/2022	19.77	69.71
		11/29/2022	24.16	65.32
		5/30/2023	21.70	67.78
		11/27/2023	24.76	64.72

Table 4
Summary of Groundwater Elevation Data – January 2018 through November 2023
CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004

Well Identification	Well Casing (feet)[1]	Measurement Date	Depth to Water (feet)[2]	Elevation (feet)[1]
CMW-29	88.03	1/17/2018	17.48	70.55
		7/31/2018	22.19	65.84
		1/22/2019	19.85	68.18
		8/21/2019	23.47	64.56
		11/25/2019	22.91	65.12
		2/24/2020	15.76	72.27
		5/27/2020	19.66	68.37
		11/11/2020	22.51	65.52
		5/24/2021	19.93	68.10
		11/29/2021	19.13	68.90
		5/25/2022	18.10	69.93
		11/29/2022	22.52	65.51
		5/30/2023	19.96	68.07
		11/27/2023	23.13	64.90
CMW-30	87.58	1/17/2018	16.82	70.76
		7/31/2018	21.52	66.06
		1/22/2019	19.19	68.39
		8/21/2019	22.84	64.74
		11/25/2019	22.28	65.30
		2/25/2020	15.16	72.42
		5/27/2020	19.02	68.56
		11/11/2020	21.88	65.70
		5/24/2021	19.28	68.30
		11/29/2021	18.53	69.05
		5/25/2022	17.45	70.13
		11/29/2022	21.81	65.77
		5/30/2023	19.31	68.27
		11/27/2023	22.50	65.08
CMW-31	89.02	1/17/2018	19.49	69.53
		7/31/2018	24.32	64.70
		1/22/2019	21.90	67.12
		8/21/2019	25.54	63.48
		11/25/2019	24.91	64.11
		2/24/2020	17.80	71.22
		5/27/2020	21.81	67.21
		11/11/2020	24.43	64.59
		5/24/2021	22.06	66.96
		11/29/2021	21.18	67.84
		5/25/2022	20.22	68.80
		11/29/2022	24.56	64.46
		5/30/2023	22.04	66.98
		11/27/2023	25.00	64.02

Table 4
Summary of Groundwater Elevation Data – January 2018 through November 2023
CHS Auburn Site
Auburn, Washington
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Well Identification	Well Casing (feet)[1]	Measurement Date	Depth to Water (feet)[2]	Elevation (feet)[1]
HMW-9	89.07	1/17/2018	19.47	69.60
		7/31/2018	24.25	64.82
		1/22/2019	21.85	67.22
		8/21/2019	25.45	63.62
		11/25/2019	24.84	64.23
		2/25/2020	17.84	71.23
		5/27/2020	21.76	67.31
		11/11/2020	24.40	64.67
		5/24/2021	22.00	67.07
		11/29/2021	21.18	67.89
		5/25/2022	20.18	68.89
		11/29/2022	24.50	64.57
		5/30/2023	21.97	67.10
		11/27/2023	24.96	64.11
HMW-10	89.18	1/17/2018	19.40	69.78
		7/31/2018	24.13	65.05
		1/22/2019	21.77	67.41
		8/21/2019	23.35	65.83
		11/25/2019	24.78	64.40
		2/24/2020	17.70	71.48
		5/27/2020	21.66	67.52
		11/11/2020	24.34	64.84
		5/24/2021	21.91	67.27
		11/29/2021	21.08	68.10
		5/25/2022	20.04	69.14
		11/29/2022	24.39	64.79
		5/30/2023	21.86	67.32
		11/27/2023	24.92	64.26
HMW-11	NS	1/17/2018	17.51	NS
		7/31/2018	22.27	NS
		1/22/2019	19.89	NS
		8/21/2019	23.30	NS
		11/25/2019	22.87	NS
		2/25/2020	15.82	NS
		5/27/2020	19.76	NS
		11/11/2020	22.46	NS
		5/24/2021	20.03	NS
		11/29/2021	19.25	NS
		5/25/2022	18.21	NS
		11/29/2022	22.52	NS
		5/30/2023	20.02	NS
		11/27/2023	23.03	NS

Table 4
Summary of Groundwater Elevation Data – January 2018 through November 2023
CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004

Well Identification	Well Casing (feet)[1]	Measurement Date	Depth to Water (feet)[2]	Elevation (feet)[1]
HMW-13	88.32	1/17/2018	17.82	70.50
		7/31/2018	22.51	65.81
		1/22/2019	20.21	68.11
		8/21/2019	23.80	64.52
		11/25/2019	23.24	65.08
		2/24/2020	16.13	72.19
		5/27/2020	20.02	68.30
		11/11/2020	22.85	65.47
		5/24/2021	16.00	72.32
		11/29/2021	19.50	68.82
		5/25/2022	16.32	72.00
		11/29/2022	16.20	72.12
		5/30/2023	20.29	68.03
		11/27/2023	23.47	64.85

NOTES:

[1]Elevation in feet above mean sea level.

[2]Depth to water in feet below the top of the well casing.

[3]Depth to water measured during sampling on November 27, 2023.

[4]Depth to water measurement appears to be erroneous; depth to water measured during sampling on July 31, 2018 was 24.45 feet below the top of the well casing.

NS = well not surveyed; groundwater elevation could not be determined

Table 5
Groundwater Water Quality Data – January 2018 through November 2023
CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004

Sample Location	Date[1]	Temperature[2] (°Celsius)	pH[2]	ORP[2] (millivolts)	Specific Conductivity[2] (mS/cm)	Dissolved Oxygen[1] (milligrams per liter)
CMW-2	1/18/2018	13.5	6.03	252.3	---	1.15
	7/31/2018	15.5	6.14	164.0	---	0.47
	1/22/2019	12.9	5.99	214.1	---	1.20
	8/22/2019	14.7	6.16	175.1	---	2.09
	11/26/2019	13.8	6.20	44.5	---	3.29
	2/25/2020	12.2	6.60	143.6	---	6.76
	5/28/2020	14.8	7.32	201.4	---	8.58
	11/12/2020	13.4	6.23	17.5	---	0.95
	5/25/2021	13.7	6.49	354.9	---	7.03
	11/30/2021	14.6	6.48	238.3	---	4.52
	5/26/2022	14.9	6.12	505.8	---	3.76
	11/30/2022	12.5	6.72	292.7	---	2.00
	5/31/2023	14.5	6.23	210.6	---	3.96
	11/28/2023	11.9	6.32	348.2	0.556	6.18
CMW-4	1/17/2018	---	---	---	---	4.52
CMW-6	1/17/2018	---	---	---	---	4.09
CMW-8	1/18/2018	12.0	6.66	-14.3	---	0.29
	8/1/2018	14.5	6.33	-32.3	---	0.52
	1/22/2019	12.2	6.29	8.8	---	0.64
	8/21/2019	13.9	6.21	8.4	---	1.71
	11/25/2019	12.6	6.37	21.8	---	1.05
	2/25/2020	12.5	6.27	-1.3	---	0.99
	5/28/2020	13.3	6.52	-9.9	---	0.60
	11/11/2020	12.3	6.31	-31.9	---	6.67
	5/24/2021	13.3	6.08	41.2	---	0.75
	11/30/2021	12.9	6.51	-12.5	---	1.17
	5/25/2022	15.7	6.09	328.8	---	0.93
	11/30/2022	11.5	6.47	127.3	---	0.76
	5/31/2023	15.1	6.45	15.8	---	1.48
	11/28/2023	10.9	6.48	106.5	0.175	0.78
CMW-10	1/18/2018	13.4	6.12	194.4	---	0.70
	8/1/2018	14.9	6.12	-40.1	---	0.26
	1/23/2019	13.0	5.76	176.7	---	0.75
	8/22/2019	14.3	6.00	-37.4	---	0.76
	11/25/2019	14.6	4.87	87.3	---	1.18
	2/25/2020	13.3	6.08	158	---	5.58
	5/28/2020	15.2	6.52	120.8	---	2.27
	11/12/2020	13.1	5.75	36.6	---	1.20
	5/25/2021	14.1	6.13	319.2	---	1.36
	11/30/2021	15.1	6.25	174.8	---	1.56
	5/26/2022	15.1	6.12	463.7	---	1.58
	11/30/2022	12.9	6.55	42.5	---	0.95
	5/31/2023	15.7	5.84	163.2	---	1.51
	11/28/2023	11.9	6.40	-10.6	0.271	0.83

Table 5
Groundwater Water Quality Data – January 2018 through November 2023
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Sample Location	Date[1]	Temperature[2] (°Celsius)	pH[2]	ORP[2] (millivolts)	Specific Conductivity[2] (mS/cm)	Dissolved Oxygen[1] (milligrams per liter)
CMW-12	1/18/2018	12.8	6.46	-47.0	---	0.18
	8/1/2018	15.8	6.19	-22.5	---	0.41
	1/23/2019	12.5	6.36	-25.7	---	0.60
	8/22/2019	15.1	6.25	-61.5	---	1.71
	11/26/2019	12.4	6.36	-6.5	---	0.97
	2/25/2020	12.8	6.12	-13.9	---	1.01
	5/28/2020	18.3	6.50	-35.5	---	0.59
	11/12/2020	13.6	6.29	-93.6	---	0.73
	5/25/2021	14.6	6.13	86.8	---	0.86
	11/30/2021	13.9	6.38	93.4	---	2.17
	5/26/2022	15.8	6.21	-121.8	---	0.84
	11/30/2022	12.6	6.14	189.4	---	0.73
	5/31/2023	15.7	6.27	14.3	---	1.63
	11/27/2023	12.5	6.16	54.3	0.201	0.84
CMW-13	1/18/2018	13.1	6.30	107.2	---	1.25
	7/31/2018	15.9	6.18	-40.3	---	0.26
	1/23/2019	12.5	5.91	78.6	---	1.28
	8/22/2019	14.5	6.34	-31.7	---	1.85
	11/26/2019	13.1	6.41	-0.9	---	1.51
	2/25/2020	12.8	6.13	155.9	---	1.54
	5/28/2020	16.5	6.17	77.5	---	0.71
	11/12/2020	13.3	6.44	-80.0	---	2.30
	5/24/2021	14.5	5.79	116.3	---	1.15
	11/30/2021	14.3	6.27	60.3	---	4.52
	5/25/2022	16.4	6.08	526.1	---	0.66
	11/30/2022	11.8	6.67	31.9	---	1.27
	5/31/2023	13.9	6.21	48.5	---	1.46
	11/27/2023	12.3	6.14	24.6	0.238	2.54
CMW-15	1/17/2018	---	---	---	---	0.37
CMW-25	1/18/2018	12.7	6.14	269.4	---	4.68
	7/31/2018	16.3	6.03	88.5	---	0.75
	1/22/2019	12.4	6.03	315.1	---	4.59
	8/21/2019	15.6	6.03	117.8	---	1.03
	11/25/2019	12.8	6.13	63.5	---	1.74
	2/24/2020	12.1	6.00	114.2	---	8.05
	5/27/2020	15.1	6.18	251.5	---	4.24
	11/12/2020	12.5	5.97	12.4	---	1.32
	5/24/2021	13.2	5.77	345.6	---	4.00
	11/29/2021	15.0	6.19	279.6	---	6.85
	5/25/2022	14.9	6.02	519.7	---	6.48
	11/30/2022	12.3	6.10	224.8	---	1.12
	5/30/2023	16.0	6.11	305.0	---	5.21
	11/28/2023	11.0	6.20	254.7	0.167	5.53

Table 5
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Sample Location	Date[1]	Temperature[2] (°Celsius)	pH[2]	ORP[2] (millivolts)	Specific Conductivity[2] (mS/cm)	Dissolved Oxygen[1] (milligrams per liter)
CMW-26	1/18/2018	10.7	6.44	233.6	---	4.04
	8/1/2018	16.0	6.22	160.6	---	4.32
	1/22/2019	11.9	6.07	98.6	---	4.08
	8/21/2019	16.0	6.05	206.1	---	4.18
	11/26/2019	11.6	6.27	218.2	---	2.98
	2/25/2020	11.4	6.33	155.2	---	4.61
	5/27/2020	16.4	6.35	266.0	---	4.21
	11/11/2020	12.5	6.05	49.6	---	0.77
	5/25/2021	13.0	6.05	338.3	---	4.53
	11/29/2021	14.0	6.36	273.5	---	4.61
	5/25/2022	16.2	6.24	503.0	---	4.40
	11/30/2022	11.3	7.99	228.0	---	4.55
	5/30/2023	14.1	6.16	184.1	---	4.52
	11/27/2023	11.0	6.27	360.0	0.211	5.00
CMW-27	1/18/2018	14.0	6.12	155.5	---	0.44
	8/1/2018	16.0	6.05	-26.7	---	0.21
	1/23/2019	12.7	6.27	-106.1	---	0.73
	8/22/2019	16.7	6.45	-53.7	---	0.69
	11/26/2019	14.6	6.29	-156.8	---	0.47
	2/25/2020	13.9	6.14	276.2	---	1.95
	5/28/2020	16.1	6.49	-31.0	---	0.76
	11/12/2020	14.5	6.28	-73.2	---	0.90
	5/25/2021	14.5	6.11	29.2	---	0.63
	11/30/2021	15.2	6.18	50.9	---	0.99
	5/26/2022	14.7	6.37	87.2	---	0.77
	11/30/2022	11.2	6.66	16.7	---	0.91
	5/31/2023	15.7	5.78	85.5	---	1.07
	11/28/2023	12.3	6.41	-16.9	0.436	1.36
CMW-28	1/18/2018	9.3	6.17	204.4	---	2.04
	8/1/2018	15.2	5.98	44.9	---	0.52
	1/23/2019	12.0	5.56	184.9	---	1.87
	8/21/2019	15.2	5.65	161.3	---	1.55
	11/26/2019	14.8	5.66	245.0	---	1.93
	2/24/2020	11.1	5.54	146.7	---	7.51
	5/27/2020	15.5	6.03	292.3	---	7.44
	11/12/2020	14.2	5.90	52.1	---	3.91
	5/25/2021	13.6	5.63	296.5	---	3.08
	11/30/2021	14.1	6.04	286.6	---	1.15
	5/25/2022	15.8	5.86	520.4	---	3.54
	11/29/2022	12.3	6.10	201.9	---	6.26
	5/30/2023	15.4	5.93	242.0	---	6.04
	11/27/2023	11.3	5.80	367.1	0.071	3.83

Table 5
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Auburn, Washington
Farallon PN: 301-004

Sample Location	Date[1]	Temperature[2] (°Celsius)	pH[2]	ORP[2] (millivolts)	Specific Conductivity[2] (mS/cm)	Dissolved Oxygen[1] (milligrams per liter)
CMW-29	1/17/2018	11.9	6.15	109.6	---	0.55
	7/31/2018	16.7	6.07	43.2	---	0.41
	1/22/2019	13.1	5.90	180.3	---	1.28
	8/22/2019	14.1	5.59	103.4	---	0.87
	11/25/2019	13.6	5.94	112.3	---	0.85
	2/24/2020	13.1	6.03	90.0	---	1.49
	5/27/2020	17.4	6.05	243.7	---	1.66
	11/11/2020	13.1	5.72	24.2	---	5.06
	5/24/2021	14.0	5.60	267.0	---	7.19
	11/29/2021	15.3	5.96	294.7	---	1.53
	5/25/2022	15.2	5.98	492.8	---	0.88
	11/30/2022	11.9	6.17	281.8	---	2.07
	5/30/2023	14.5	5.87	158.8	---	2.37
	11/27/2023	10.9	5.91	316.5	0.251	1.26
CMW-30	1/17/2018	---	---	---	---	1.11
	1/22/2019	13.4	6.19	179.1	---	0.91
	8/21/2019	15.1	5.90	163.9	---	0.90
	11/25/2019	14.5	6.09	124.4	---	0.56
	2/25/2020	12.0	6.20	148.2	---	2.26
	5/27/2020	15.6	6.29	193.3	---	0.71
	11/11/2020	14.3	6.03	15.0	---	0.89
	5/24/2021	13.9	5.80	241.9	---	0.40
	11/29/2021	15.1	6.24	210.2	---	0.93
	5/25/2022	13.9	6.08	505.5	---	1.08
	11/29/2022	12.2	6.16	202.6	---	0.89
	5/30/2023	14.3	5.96	114.8	---	1.42
	11/27/2023	12.0	6.03	297.1	0.228	0.45
CMW-31	1/18/2018	12.0	6.34	153.3	---	2.90
	7/31/2018	14.6	6.03	97.6	---	0.71
	1/22/2019	12.7	5.95	161.2	---	3.34
	8/22/2019	13.5	6.11	143.8	---	2.07
	11/25/2019	12.3	6.20	109.3	---	1.60
	2/24/2020	12.5	5.88	277.9	---	3.91
	5/28/2020	13.9	6.21	163.2	---	1.17
	11/11/2020	12.6	6.08	53.4	---	1.11
	5/24/2021	13.7	6.15	270.8	---	1.09
	11/29/2021	14.1	6.15	297.5	---	1.28
	5/25/2022	15.5	6.13	321.7	---	1.87
	11/29/2022	11.6	6.42	200.6	---	1.13
	5/31/2023	14.4	6.12	162.7	---	1.99
	11/28/2023	10.6	6.34	268.6	0.179	1.14

Table 5
Groundwater Water Quality Data – January 2018 through November 2023
CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004

Sample Location	Date[1]	Temperature[2] (°Celsius)	pH[2]	ORP[2] (millivolts)	Specific Conductivity[2] (mS/cm)	Dissolved Oxygen[1] (milligrams per liter)
HMW-9	1/18/2018	12.6	6.51	-13.0	---	0.51
	8/1/2018	14.8	6.23	-20.0	---	0.25
	1/22/2019	13.3	6.16	28.8	---	0.59
	8/21/2019	16.7	6.23	-5.1	---	1.89
	11/25/2019	14.0	6.25	25.3	---	0.33
	2/25/2020	13.0	6.18	35.7	---	2.84
	5/28/2020	14.0	6.38	-18.7	---	0.88
	11/11/2020	13.9	6.23	-67.3	---	3.82
	5/25/2021	14.9	5.99	36.6	---	2.66
	11/30/2021	14.1	6.44	13	---	1.1
	5/26/2022	14.6	6.00	-202.6	---	0.62
	11/30/2022	9.2	5.35	217.5	---	4.76
	5/31/2023	14.4	6.34	-53.8	---	1.38
	11/27/2023	11.3	6.16	39.5	0.190	0.87
HMW-10	1/17/2018	12.3	6.49	-38.1	---	0.47
	7/31/2018	14.8	6.22	-43.1	---	0.26
	1/22/2019	13.0	6.14	30.5	---	0.53
	8/21/2019	14.6	6.25	-26.0	---	2.02
	11/25/2019	13.3	6.18	27.3	---	2.76
	2/24/2020	13.5	6.07	7.8	---	7.1
	5/28/2020	14.1	6.43	-9.0	---	0.59
	11/12/2020	13.1	6.26	-57.4	---	2.70
	5/24/2021	14.6	5.85	26.7	---	0.80
	11/30/2021	13.5	6.48	-7.8	---	0.85
	5/26/2022	15.0	6.32	-162.1	---	0.64
	11/30/2022	11.5	7.96	184.0	---	0.89
	5/31/2023	14.1	6.21	4.6	---	1.35
	11/28/2023	11.2	6.41	28.0	0.228	0.68
HMW-11	1/18/2018	13.7	6.07	176.6	---	0.46
	8/1/2018	15.3	6.20	-27.6	---	0.29
	1/23/2019	12.9	6.30	-30.4	---	0.96
	8/22/2019	14.6	6.20	-40.1	---	1.70
	11/26/2019	13.3	6.35	-3.9	---	0.78
	2/25/2020	14.1	6.00	188.7	---	0.63
	5/28/2020	16.2	6.38	-16.6	---	0.70
	11/12/2020	13.8	6.37	-108.8	---	0.67
	5/25/2021	14.6	6.22	1.6	---	1.10
	11/30/2021	15.3	6.23	255.3	---	4.12
	5/26/2022	15.3	6.07	-62.7	---	0.98
	11/30/2022	6.7	6.57	54.1	---	1.60
	5/31/2023	14.1	6.03	11.7	---	1.64
	11/28/2023	11.9	6.23	7.6	0.510	0.74

Table 5
Groundwater Water Quality Data – January 2018 through November 2023
CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004

Sample Location	Date[1]	Temperature[2] (°Celsius)	pH[2]	ORP[2] (millivolts)	Specific Conductivity[2] (mS/cm)	Dissolved Oxygen[1] (milligrams per liter)
HMW-13	1/18/2018	12.2	6.18	233.4	---	0.55
	8/1/2018	14.7	5.95	157.5	---	0.85
	1/23/2019	12.5	5.64	196.8	---	1.23
	8/21/2019	15.9	5.97	211.9	---	2.72
	11/26/2019	12.1	6.06	235.3	---	1.51
	2/24/2020	11.7	5.89	140.1	---	2.92
	5/27/2020	16.8	6.16	233.0	---	1.10
	11/11/2020	12.6	5.77	59.2	---	2.70
	5/25/2021	14.7	5.96	250.9	---	1.93
	11/30/2021	13.6	6.19	281.1	---	1.86
	5/26/2022	16.1	6.10	-36.1	---	1.89
	11/30/2022	12.5	6.05	233.7	---	3.22
	5/30/2023	14.8	5.96	208.1	---	3.01
	11/27/2023	11.9	6.00	341.6	0.199	---[3]

NOTES:

--- = not measured or data unavailable

mS/cm = milliSiemens per centimeter

ORP = oxidation-reduction potential

[1]Date shown represents date of groundwater sample collection. Dissolved-oxygen measurements typically were collected 1 to 2 days prior using a dissolved-oxygen analyzer with a down-hole probe.

[2]Temperature, pH, specific conductivity, and ORP were measured using a YSI or Horiba multiparameter water quality analyzer.

[3]Dissolved-oxygen reading erroneous.

Table 6
Summary of Laboratory Analytical Results for TPH and BTEX in Groundwater – January 2018 through November 2023
CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004

Well Identification	Sample Identification	Sample Date	Analytical Results (milligrams per liter)		Analytical Results (micrograms per liter)				
			DRO[1]	ORO[1]	GRO[2]	Benzene[3]	Toluene[3]	Ethylbenzene[3]	Total Xylenes[3]
CMW-2	CMW-2-011818	1/18/2018	**0.93**	**<0.62**[4]	<100	<1.0	<1.0	<1.0	<2.0
	CMW-2-073118	7/31/2018	**0.63**	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-2-012219	1/22/2019	**2.2**	**1.1**[5]	<100	<1.0	<1.0	<1.0	<2.0
	CMW-2-082219	8/22/2019	**1.0**	**0.69**[5]	<100	<1.0	<1.0	<1.0	<2.0
	CMW-2-112619	11/26/2019	**5.2**	**3.3**[5]	<100	<1.0	<1.0	<1.0	<2.0
	CMW-2-022520	2/25/2020	**0.63**	**1.0**	<100	<1.0	<1.0	<1.0	<2.0
	CMW-2-052820	5/28/2020	**0.76**	**0.94**	<100	<1.0	<1.0	<1.0	<2.0
	CMW-2-111220	11/12/2020	**1.9**	**1.1**[5]	<100	<1.0	<1.0	<1.0	<2.0
	CMW-2-052521	5/25/2021	0.34	**0.63**	<100	<1.0	<1.0	<1.0	<2.0
	CMW-2-113021	11/30/2021	**1.4**	**1.2**	<100	<1.0	<1.0	<1.0	<2.0
	CMW-2-052622	5/26/2022	0.20	0.25	<100	<1.0	<1.0	<1.0	<2.0
	CMW-2-113022	11/30/2022	**0.57**	**0.59**	<100	<1.0	<1.0	<1.0	<2.0
	CMW-2-053123	5/31/2023	0.43	**0.64**	<100	<1.0	<1.0	<1.0	<2.0
	CMW-2-112823	11/28/2023	**1.2**	**1.5**	<100	<1.0	<1.0	<1.0	<2.0
CMW-8	CMW-8-011818	1/18/2018	0.38	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-8-080118	8/1/2018	0.31	<0.42	<100	<1.0	<1.0	<1.0	<2.0
	CMW-8-012219	1/22/2019	**0.50**	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-8-082119	8/21/2019	**0.51**	<0.40	<100	<1.0	<1.0	<1.0	<2.0
	CMW-8-112519	11/25/2019	**0.53**	0.36	<100	<1.0	<1.0	<1.0	<2.0
	CMW-8-022420	2/24/2020	**0.60**	0.25	<100	<1.0	<1.0	<1.0	<2.0
	CMW-8-052820	5/28/2020	**0.97**	**0.56**	<100	<1.0	<1.0	<1.0	<2.0
	CMW-8-111120	11/11/2020	0.47	0.22[5]	<100	<1.0	<1.0	<1.0	<2.0
	CMW-8-052421	5/24/2021	**0.53**	0.26	<100	<1.0	<1.0	<1.0	<2.0
	CMW-8-113021	11/30/2021	**0.58**	0.35	<100	<1.0	<1.0	<1.0	<2.0
	CMW-8-052522	5/25/2022	**0.79**	**0.60**	<100	<1.0	<1.0	<1.0	<2.0
	CMW-8-113022	11/30/2022	0.28	0.29	<100	<1.0	<1.0	<1.0	<2.0
	CMW-8-053123	5/31/2023	**0.64**	**0.71**	<100	<1.0	<1.0	<1.0	<2.0
	CMW-8-112823	11/28/2023	0.28	0.35	<100	<1.0	<1.0	<1.0	<2.0
MTCA Method A Cleanup Levels for Groundwater[6]			**0.5**	**0.5**	**800**	**5**	**1,000**	**700**	**1,000**

Table 6
Summary of Laboratory Analytical Results for TPH and BTEX in Groundwater – January 2018 through November 2023
CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004

Well Identification	Sample Identification	Sample Date	Analytical Results (milligrams per liter)		Analytical Results (micrograms per liter)				
			DRO[1]	ORO[1]	GRO[2]	Benzene[3]	Toluene[3]	Ethylbenzene[3]	Total Xylenes[3]
CMW-10	CMW-10-011818	1/18/2018	**1.4**	**<0.89**[4]	<100	<1.0	<1.0	<1.0	<2.0
	CMW-10-080118	8/1/2018	**1.5**	**0.67**[5]	<100	<1.0	<1.0	<1.0	<2.0
	CMW-10-012319	1/23/2019	**2.1**	**1.4**[5]	<100	<1.0	<1.0	<1.0	<2.0
	CMW-10-082219	8/22/2019	**2.9**	**0.80**[5]	<400	<4.0	<4.0	<4.0	<8.0
	CMW-10-112519	11/25/2019	**0.73**	0.37	<100	<1.0	<1.0	<1.0	<2.0
	CMW-10-022520	2/25/2020	**2.3**	**1.4**	<100	<1.0	<1.0	<1.0	<2.0
	CMW-10-052820	5/28/2020	**3.4**	**2.9**	<100	<1.0	<1.0	<1.0	<2.0
	CMW-10-111220	11/12/2020	**1.6**	**0.70**[5]	<100	<1.0	<1.0	<1.0	<2.0
	CMW-10-052521	5/25/2021	**2.1**	**3.1**	<100	<1.0	<1.0	<1.0	<2.0
	CMW-10-113021	11/30/2021	**2.8**	**2.9**	<100	<1.0	<1.0	<1.0	<2.0
	CMW-10-052622	5/26/2022	**0.62**	**0.51**	<100	<1.0	<1.0	<1.0	<2.0
	CMW-10-113022	11/30/2022	**1.8**	**0.77**	<100	<1.0	<1.0	<1.0	<2.0
	CMW-10-053123	5/31/2023	**3.0**	**4.5**	<100	<1.0	<1.0	<1.0	<2.0
	CMW-10-112823	11/28/2023	**1.6**	**0.58**	<100	<1.0	<1.0	<1.0	<2.0
CMW-12	CMW-12-011818	1/18/2018	**2.1**[11]	**<0.55**[4]	**1,300**	3.0	<1.0	<1.0	<2.0
	QA/QC-1-011818[9]	1/18/2018	**2.2**[11]	**<0.70**[4]	**1,200**	2.6	<1.0	<1.0	<2.0
	CMW-12-080118	8/1/2018	**1.5**[11]	**0.77**[5]	**1,500**	1.2	<1.0	<1.0	1.6
	QA/QC-1-080118[9]	8/1/2018	**1.4**[11]	**0.56**[5]	**1,500**	1.1	<1.0	<1.0	1.9
	CMW-12-012319	1/23/2019	**1.6**[11]	0.43[5]	**1,500**[8]	1.7	<1.0	<1.0	<2.0
	QA/QC-1-012319[9]	1/23/2019	**1.6**[11]	<0.42	**1,500**[8]	1.6	<1.0	<1.0	<2.0
	CMW-12-082219	8/22/2019	**2.5**[11]	**0.51**[5]	**920**	<4.0	<4.0	<4.0	<8.0
	QA/QC-1-082219[9]	8/22/2019	**2.1**[11]	<0.41	**950**	<4.0	<4.0	<4.0	<8.0
	CMW-12-112619	11/26/2019	**2.3**[11]	**0.51**[5]	620[8]	<1.0	<1.0	<1.0	<2.0
	QA/QC-1-112619[9]	11/26/2019	**2.3**[11]	0.46[5]	620[8]	<1.0	<1.0	<1.0	<2.0
	CMW-12-022520	2/25/2020	**4.2**	**1.4**	**1,000**	2.0	1.8	<1.0	<2.0
	QAQC-1-022520[9]	2/25/2020	**4.2**	**1.5**	**950**	2.0	1.8	<1.0	<2.0
	CMW-12-052820	5/28/2020	**2.4**[11]	**1.1**	510[8]	<1.0	<1.0	<1.0	<2.0
	QA/QC-2-052820[9]	5/28/2020	**2.3**[11]	**1.1**	490[8]	<1.0	<1.0	<1.0	<2.0
	CMW-12-111220	11/12/2020	**0.85**[11]	0.34[5]	200[8]	<1.0	<1.0	<1.0	<2.0
	QA/QC-1-111220[9]	11/12/2020	**0.90**[11]	0.37[5]	200[8]	<1.0	<1.0	<1.0	<2.0
	CMW-12-052521	5/25/2021	**1.1**	**0.95**	<130[4]	<1.0	<1.0	<1.0	<2.0
	QA/QC-1-052521[9]	5/25/2021	**1.0**	**0.98**	<120[4]	<1.0	<1.0	<1.0	<2.0
	CMW-12-113021	11/30/2021	**0.64**	0.33	<100	<1.0	<1.0	<1.0	<2.0
	QA/QC-1-113021[9]	11/30/2021	**0.65**	0.32	<100	<1.0	<1.0	<1.0	<2.0
	CMW-12-052622	5/26/2022	**0.80**	0.44	<100	<1.0	<1.0	<1.0	<2.0
	QA/QC-2-052622[9]	5/26/2022	**0.84**	0.49	<100	<1.0	<1.0	<1.0	<2.0
	CMW-12-113022	11/30/2022	0.43	0.26	<100	<1.0	<1.0	<1.0	<2.0
	QA/QC-1-113022[9]	11/30/2022	0.39	0.30	<100	<1.0	<1.0	<1.0	<2.0
	CMW-12-053123	5/31/2023	**1.0**	**1.1**	<100	<1.0	<1.0	<1.0	<2.0
	QA/QC-1-053123[9]	5/31/2023	**0.88**	**0.89**	<100	<1.0	<1.0	<1.0	<2.0
	CMW-12-112723	11/27/2023	0.29	0.29	<100	<1.0	<1.0	<1.0	<2.0
	QA/QC-1-112723[9]	11/27/2023	0.32	0.36	<100	<1.0	<1.0	<1.0	<2.0
MTCA Method A Cleanup Levels for Groundwater[6]			**0.5**	**0.5**	**800**	**5**	**1,000**	**700**	**1,000**

Table 6
Summary of Laboratory Analytical Results for TPH and BTEX in Groundwater – January 2018 through November 2023
CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004

Well Identification	Sample Identification	Sample Date	Analytical Results (milligrams per liter)		Analytical Results (micrograms per liter)				
			DRO[1]	ORO[1]	GRO[2]	Benzene[3]	Toluene[3]	Ethylbenzene[3]	Total Xylenes[3]
CMW-13	CMW-13-011818	1/18/2018	0.29	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-13-073118	7/31/2018	**0.62**[11]	<0.41	240	1.1	<1.0	<1.0	<2.0
	CMW-13-012319	1/23/2019	**0.57**	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-13-082219	8/22/2019	0.38	<0.41	<400	<4.0	<4.0	<4.0	<8.0
	CMW-13-112619	11/26/2019	**0.70**	0.35[5]	<100	<1.0	<1.0	<1.0	<2.0
	CMW-13-022520	2/25/2020	**3.3**	**2.0**	<100	<1.0	<1.0	<1.0	<2.0
	CMW-13-052820	5/28/2020	**1.7**	**1.1**	<100	<1.0	<1.0	<1.0	<2.0
	CMW-13-111220	11/12/2020	0.48	0.25[5]	<100	<1.0	<1.0	<1.0	<2.0
	CMW-13-052421	5/24/2021	**1.4**	**0.72**	<100	<1.0	<1.0	<1.0	<2.0
	CMW-13-113021	11/30/2021	**0.57**	0.34	<100	<1.0	<1.0	<1.0	<2.0
	CMW-13-052522	5/25/2022	**1.4**	**0.67**	<100	<1.0	<1.0	<1.0	<2.0
	CMW-13-113022	11/30/2022	0.44[11]	0.22	150	1.5	<1.0	<1.0	<2.0
	CMW-13-053123	5/31/2023	**1.5**	**1.2**	<100	<1.0	<1.0	<1.0	<2.0
	CMW-13-112723	11/27/2023	**0.68**	0.37	<100	<1.0	<1.0	<1.0	<2.0
CMW-25	CMW-25-011818	1/18/2018	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-25-073118	7/31/2018	<0.26	<0.42	<100	<1.0	<1.0	<1.0	<2.0
	CMW-25-012219	1/22/2019	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-25-082119	8/21/2019	<0.25	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-25-112519	11/25/2019	0.14	0.22	<100	<1.0	<1.0	<1.0	<2.0
	CMW-25-022420	2/24/2020	<0.21	<0.21	<100	<1.0	<1.0	<1.0	<2.0
	CMW-25-052720	5/27/2020	<0.21	<0.21	<100	<1.0	<1.0	<1.0	<2.0
	CMW-25-111220	11/12/2020	<0.21	<0.21	<100	<1.0	<1.0	<1.0	<2.0
	CMW-25-052421	5/24/2021	<0.20	<0.20	<100	<1.0	<1.0	<1.0	<2.0
	CMW-25-112921	11/29/2021	<0.20	<0.20	<100	<1.0	<1.0	<1.0	<2.0
	CMW-25-052522	5/25/2022	<0.11	<0.22	<100	<1.0	<1.0	<1.0	<2.0
	CMW-25-113022	11/30/2022	<0.13	<0.20	<100	<1.0	<1.0	<1.0	<2.0
	CMW-25-053023	5/30/2023	<0.21	<0.15	<400	<4.0	<4.0	<4.0	<8.0
	CMW-25-112823	11/28/2023	<0.15	<0.20	<100	<1.0	<1.0	<1.0	<2.0
CMW-26	CMW-26-011818	1/18/2018	<0.26	<0.42	<100	<1.0	<1.0	<1.0	<2.0
	CMW-26-080118	8/1/2018	<0.26	<0.42	<100	<1.0	<1.0	<1.0	<2.0
	CMW-26-012219	1/22/2019	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-26-082119	8/21/2019	<0.25	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-26-112619	11/26/2019	<0.21	<0.21	<100	<1.0	<1.0	<1.0	<2.0
	CMW-26-022520	2/25/2020	<0.21	<0.21	<100	<1.0	<1.0	<1.0	<2.0
	CMW-26-052720	5/27/2020	<0.21	<0.21	<100	<1.0	<1.0	<1.0	<2.0
	CMW-26-111120	11/11/2020	<0.21	<0.21	<100	<1.0	<1.0	<1.0	<2.0
	CMW-26-052521	5/25/2021	<0.20	<0.20	<100	<1.0	<1.0	<1.0	<2.0
	CMW-26-112921	11/29/2021	<0.20	<0.20	<100	<1.0	<1.0	<1.0	<2.0
	CMW-26-052522	5/25/2022	<0.11	<0.21	<100	<1.0	<1.0	<1.0	<2.0
	CMW-26-113022	11/30/2022	<0.13	<0.20	<100	<1.0	<1.0	<1.0	<2.0
	CMW-26-053023	5/30/2023	<0.21	<0.15	<400	<4.0	<4.0	<4.0	<8.0
	CMW-26-112723	11/27/2023	<0.15	<0.20	<100	<1.0	<1.0	<1.0	<2.0
MTCA Method A Cleanup Levels for Groundwater[6]			**0.5**	**0.5**	**800**	**5**	**1,000**	**700**	**1,000**

Table 6
Summary of Laboratory Analytical Results for TPH and BTEX in Groundwater – January 2018 through November 2023
CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004

Well Identification	Sample Identification	Sample Date	Analytical Results (milligrams per liter)		Analytical Results (micrograms per liter)				
			DRO[1]	ORO[1]	GRO[2]	Benzene[3]	Toluene[3]	Ethylbenzene[3]	Total Xylenes[3]
CMW-27	CMW-27-011818	1/18/2018	**1.7**	**<1.0**[4]	<100	<1.0	<1.0	<1.0	<2.0
	QA/QC-2-011818[9]	1/18/2018	**1.6**	**<0.96**[4]	<100	<1.0	<1.0	<1.0	<2.0
	CMW-27-080118	8/1/2018	**2.7**[11]	**1.0**[5]	**1,000**	<1.0	1.3	5.9	7.4
	QA/QC-2-080118[9]	8/1/2018	**2.6**[11]	**0.89**[5]	**1,100**	<1.0	1.3	5.8	7.8
	CMW-27-012319	1/23/2019	**6.9**[11]	**1.6**[5]	**900**[8]	1.5	3.4	19	17
	QA/QC-2-012319[9]	1/23/2019	**6.9**[11]	**1.5**[5]	**940**[8]	1.3	3.3	20	17
	CMW-27-082219	8/22/2019	**2.7**[11]	**0.56**[5]	**1,500**	1.2	<1.0	5.2	7.9
	QA/QC-2-082219[9]	8/22/2019	**3.4**[11]	**0.82**[5]	**1,300**	<4.0	<4.0	4.9	5.9
	CMW-27-112619	11/26/2019	**3.3**[11]	**0.94**[5]	**860**[8]	<1.0	1.2	<1.0	2.0
	QA/QC-2-112619[9]	11/26/2019	**3.9**[11]	**1.1**[5]	**940**[8]	<1.0	1.6	1.3	2.5
	CMW-27-022520	2/25/2020	**1.2**	**1.2**	<100	<1.0	<1.0	<1.0	<2.0
	QAQC-2-022520[9]	2/25/2020	**1.0**	**1.1**	<100	<1.0	<1.0	<1.0	<2.0
	CMW-27-052820	5/28/2020	**3.5**[11]	**2.0**	**1,300**[8]	<1.0	3.4	16	4.1
	QA/QC-1-052820[9]	5/28/2020	**4.5**[11]	**2.4**	**1,000**[8]	<1.0	2.6	13	3.6
	CMW-27-111220	11/12/2020	**2.1**[11]	**0.70**[5]	**1,700**[8]	<1.0	<1.0	1.8	3.9
	QA/QC-2-111220[9]	11/12/2020	**2.4**[11]	**0.76**[5]	**1,800**[8]	<1.0	<1.0	1.8	4.0
	CMW-27-052521	5/25/2021	**3.1**[11]	**1.4**	**1,100**[8]	<1.0	<1.0	15	3.5
	QA/QC-2-052521[9]	5/25/2021	**3.1**[11]	**2.3**	**1,200**[8]	3.9	<1.0	15	3.4
	CMW-27-113021	11/30/2021	**8.9**[11]	**4.8**	770	<1.0	<1.0	5.0	1.7
	QA/QC-2-113021[9]	11/30/2021	**6.7**[11]	**2.8**	**960**	1.2	<1.0	6.5	2.1
	CMW-27-052622	5/26/2022	**1.6**	**1.0**	<100	<1.0	<1.0	<1.0	<2.0
	QA/QC-1-052622[9]	5/26/2022	**1.6**	**1.1**	<100	<1.0	<1.0	<1.0	<2.0
	CMW-27-113022	11/30/2022	**2.1**[11]	**0.61**	**1,300**	3.8	<1.0	3.2	1.5
	QA/QC-2-113022[9]	11/30/2022	**1.7**[11]	**0.61**	**1,300**	4.0	<1.0	3.3	1.5
	CMW-27-053123	5/31/2023	**2.5**	**3.0**	710	1.2	<1.0	1.7	<2.0
	QA/QC-2-053123[9]	5/31/2023	**2.9**	**4.2**	680	1.5	<1.0	2.0	1.1
	CMW-27-112823	11/28/2023	**1.9**[11]	**0.65**	**810**	3.0	1.3	1.1	1.1
	QA/QC-2-112823[9]	11/28/2023	**2.7**[11]	**0.62**	**840**	3.5	1.3	1.1	1.1
CMW-28	CMW-28-011818	1/18/2018	<0.26	<0.42	<100	<1.0	<1.0	<1.0	<2.0
	CMW-28-080118	8/1/2018	**0.81**	**0.52**[5]	<100	<1.0	<1.0	<1.0	<2.0
	CMW-28-012319	1/23/2019	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-28-082119	8/21/2019	**0.63**	<0.44	<100	<1.0	<1.0	<1.0	<2.0
	CMW-28-112619	11/26/2019	**2.8**	**1.9**[5]	<100	<1.0	<1.0	<1.0	<2.0
	CMW-28-022420	2/24/2020	0.45	0.32	<100	<1.0	<1.0	<1.0	<2.0
	CMW-28-052720	5/27/2020	<0.21	0.23	<100	<1.0	<1.0	<1.0	<2.0
	CMW-28-111220	11/12/2020	**0.70**	0.42[5]	<100	<1.0	<1.0	<1.0	<2.0
	CMW-28-052521	5/25/2021	0.49	0.43	<100	<1.0	<1.0	<1.0	<2.0
	CMW-28-113021	11/30/2021	<0.20	<0.20	<100	<1.0	<1.0	<1.0	<2.0
	CMW-28-052522	5/25/2022	**1.1**	**0.68**	<100	<1.0	<1.0	<1.0	<2.0
	CMW-28-112922	11/29/2022	0.24	0.31	<100	<1.0	<1.0	<1.0	<2.0
	CMW-28-053023	5/30/2023	**1.5**	**1.1**	<100	<1.0	<1.0	<1.0	<2.0
	CMW-28-112723	11/27/2023	**0.61**	**0.90**	<100	<1.0	<1.0	<1.0	<2.0
MTCA Method A Cleanup Levels for Groundwater[6]			**0.5**	**0.5**	**800**	**5**	**1,000**	**700**	**1,000**

Table 6
Summary of Laboratory Analytical Results for TPH and BTEX in Groundwater – January 2018 through November 2023
CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004

Well Identification	Sample Identification	Sample Date	Analytical Results (milligrams per liter)		Analytical Results (micrograms per liter)				
			DRO[1]	ORO[1]	GRO[2]	Benzene[3]	Toluene[3]	Ethylbenzene[3]	Total Xylenes[3]
CMW-29	CMW-29-011718	1/17/2018	**0.70**	**<0.54**[4]	<100	<1.0	<1.0	<1.0	<2.0
	CMW-29-073118	7/31/2018	0.33	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-29-012219	1/22/2019	**1.0**	0.50[5]	<100	<1.0	<1.0	<1.0	<2.0
	CMW-29-082219	8/22/2019	<0.25	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-29-112519	11/25/2019	**0.55**	0.38	<100	<1.0	<1.0	<1.0	<2.0
	CMW-29-022420	2/24/2020	**0.67**	0.28	<100	<1.0	<1.0	<1.0	<2.0
	CMW-29-052720	5/27/2020	**0.97**	**0.71**	<100	<1.0	<1.0	<1.0	<2.0
	CMW-29-111120	11/11/2020	0.25	<0.20	<100	<1.0	<1.0	<1.0	<2.0
	CMW-29-052421	5/24/2021	**0.71**	0.43	<100	<1.0	<1.0	<1.0	<2.0
	CMW-29-112921	11/29/2021	**0.74**	**0.87**	<100	<1.0	<1.0	<1.0	<2.0
	CMW-29-052522	5/25/2022	**0.74**	**0.56**	<100	<1.0	<1.0	<1.0	<2.0
	CMW-29-113022	11/30/2022	0.17	0.20	<100	<1.0	<1.0	<1.0	<2.0
	CMW-29-053023	5/30/2023	0.48	0.46	<100	<1.0	<1.0	<1.0	<2.0
	CMW-29-112723	11/27/2023	<0.15	<0.20	<100	<1.0	<1.0	<1.0	<2.0
CMW-30	CMW-30-012219	1/22/2019	0.26	<0.42	<100	<1.0	<1.0	<1.0	<2.0
	CMW-30-082119	8/21/2019	<0.25	<0.40	<100	<1.0	<1.0	<1.0	<2.0
	CMW-30-112519	11/25/2019	0.19	0.22	<100	<1.0	<1.0	<1.0	<2.0
	CMW-30-022520	2/25/2020	<0.20	<0.20	<100	<1.0	<1.0	<1.0	<2.0
	CMW-30-052720	5/27/2020	0.36	0.30	<100	<1.0	<1.0	<1.0	<2.0
	CMW-30-111120	11/11/2020	0.22	<0.20	<100	<1.0	<1.0	<1.0	<2.0
	CMW-30-052421	5/24/2021	0.29	<0.21	<100	<1.0	<1.0	<1.0	<2.0
	CMW-30-112921	11/29/2021	0.23	<0.20	<100	<1.0	<1.0	<1.0	<2.0
	CMW-30-052522	5/25/2022	0.40	0.29	<100	<1.0	<1.0	<1.0	<2.0
	CMW-30-112922	11/29/2022	0.47	<0.20	<100	<1.0	<1.0	<1.0	<2.0
	CMW-30-053023	5/30/2023	0.33	0.21	<100	<1.0	<1.0	<1.0	<2.0
	CMW-30-112723	11/27/2023	0.18	0.26	<100	<1.0	<1.0	<1.0	<2.0
CMW-31	CMW-31-011818	1/18/2018	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-31-073118	7/31/2018	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-31-012219	1/22/2019	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-31-082219	8/22/2019	0.34	<0.45	<100	<1.0	<1.0	<1.0	<2.0
	CMW-31-112519	11/25/2019	0.22	0.27	<100	<1.0	<1.0	<1.0	<2.0
	CMW-31-022420	2/24/2020	<0.21	<0.21	<100	<1.0	<1.0	<1.0	<2.0
	CMW-31-052820	5/28/2020	<0.21	0.32	<100	<1.0	<1.0	<1.0	<2.0
	CMW-31-111120	11/11/2020	0.29	<0.20	<100	<1.0	<1.0	<1.0	<2.0
	CMW-31-052421	5/24/2021	<0.20	0.27	<100	<1.0	<1.0	<1.0	<2.0
	CMW-31-112921	11/29/2021	<0.20	<0.20	<100	<1.0	<1.0	<1.0	<2.0
	CMW-31-052522	5/25/2022	<0.10	<0.20	<100	<1.0	<1.0	<1.0	<2.0
	CMW-31-112922	11/29/2022	0.25	<0.20	<100	<1.0	<1.0	<1.0	<2.0
	CMW-31-053123	5/31/2023	<0.21	0.27	<100	<1.0	<1.0	<1.0	<2.0
	CMW-31-112823	11/28/2023	0.18	0.23	<100	<1.0	<1.0	<1.0	<2.0
MTCA Method A Cleanup Levels for Groundwater[6]			**0.5**	**0.5**	**800**	**5**	**1,000**	**700**	**1,000**

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Summary of Laboratory Analytical Results for TPH and BTEX in Groundwater – January 2018 through November 2023
CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004

Well Identification	Sample Identification	Sample Date	Analytical Results (milligrams per liter)		Analytical Results (micrograms per liter)				
			DRO[1]	ORO[1]	GRO[2]	Benzene[3]	Toluene[3]	Ethylbenzene[3]	Total Xylenes[3]
HMW-9	HMW-9-011818	1/18/2018	0.35	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	HMW-9-080118	8/1/2018	0.46	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	HMW-9-012219	1/22/2019	0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	HMW-9-082119	8/21/2019	0.34	<0.44	<100	<1.0	<1.0	<1.0	<2.0
	HMW-9-112519	11/25/2019	0.40	0.42	<100	<1.0	<1.0	<1.0	<2.0
	HMW-9-022520	2/25/2020	0.39	**1.2**	<100	<1.0	<1.0	<1.0	<2.0
	HMW-9-052820	5/28/2020	**0.98**	**2.1**	<100	<1.0	<1.0	<1.0	<2.0
	HMW-9-111120	11/11/2020	0.47	**0.69**	<100	<1.0	<1.0	<1.0	<2.0
	HMW-9-052521	5/25/2021	**0.55**	**1.2**	<100	<1.0	<1.0	<1.0	<2.0
	HMW-9-113021	11/30/2021	0.30	0.32	<100	<1.0	<1.0	<1.0	<2.0
	HMW-9-052622	5/26/2022	**0.77**	**0.65**	<100	<1.0	<1.0	<1.0	<2.0
	HMW-9-113022	11/30/2022	0.18	0.45	<100	<1.0	<1.0	<1.0	<2.0
	HMW-09-053123	5/31/2023	**0.96**	**1.3**	<100	<1.0	<1.0	<1.0	<2.0
	HMW-9-112723	11/27/2023	0.35	0.50	<100	<1.0	<1.0	<1.0	<2.0
HMW-10	HMW-10-011718	1/17/2018	**0.72**	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	HMW-10-073118	7/31/2018	**0.60**[11]	<0.40	<100	<1.0	<1.0	<1.0	<2.0
	HMW-10-012219	1/22/2019	0.38	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	HMW-10-082119	8/21/2019	**0.51**	<0.41	<400	<4.0	<4.0	<4.0	<8.0
	HMW-10-112519	11/25/2019	**5.0**	**1.7**[5]	<100	<1.0	<1.0	<1.0	<2.0
	HMW-10-022420	2/24/2020	**0.71**	0.34	<100	<1.0	<1.0	<1.0	<2.0
	HMW-10-052820	5/28/2020	**1.2**	**0.77**	<100	<1.0	<1.0	<1.0	<2.0
	HMW-10-111220	11/12/2020	0.50	<0.21	<100	<1.0	<1.0	<1.0	<2.0
	HMW-10-052421	5/24/2021	**0.95**	**0.51**	<100	<1.0	<1.0	<1.0	<2.0
	HMW-10-113021	11/30/2021	0.50	0.23	<100	<1.0	<1.0	<1.0	<2.0
	HMW-10-052622	5/26/2022	**1.5**	**0.75**	<100	<1.0	<1.0	<1.0	<2.0
	HMW-10-113022	11/30/2022	**0.52**	0.28	<100	<1.0	<1.0	<1.0	<2.0
	HMW-10-053123	5/31/2023	**1.0**	**0.75**	<100	<1.0	<1.0	<1.0	<2.0
	HMW-10-112823	11/28/2023	0.49	0.41	<100	<1.0	<1.0	<1.0	<2.0
HMW-11	HMW-11-011818	1/18/2018	**2.5**	**<1.3**[4]	<100	<1.0	<1.0	<1.0	<2.0
	HMW-11-080118	8/1/2018	**1.6**[11]	0.48[5]	**1,600**	1.0	<1.0	<1.0	<2.0
	HMW-11-012319	1/23/2019	**1.9**[11]	<0.41	**1,900**[8]	1.4	<1.0	1.2	<2.0
	HMW-11-082219	8/22/2019	**3.3**[11]	0.49[5]	**1,400**	<4.0	<4.0	<4.0	<8.0
	HMW-11-112619	11/26/2019	**3.2**[11]	**0.63**[5]	**1,200**[8]	1.0	1.0	<1.0	<2.0
	HMW-11-022520	2/25/2020	**4.9**	**2.1**	<100	<1.0	<1.0	<1.0	<2.0
	HMW-11-052820	5/28/2020	**4.1**[11]	**2.1**	**920**[8]	<1.0	1.5	<1.0	<2.0
	HMW-11-111220	11/12/2020	**1.4**[11]	**0.51**[5]	410[8]	<1.0	<1.0	<1.0	<2.0
	HMW-11-052521	5/25/2021	**3.5**[11]	**1.1**	730[8]	<1.0	<1.0	<1.0	<2.0
	HMW-11-113021	11/30/2021	0.36	0.38	<100	<1.0	<1.0	<1.0	<2.0
	HMW-11-052622	5/26/2022	**2.5**	**1.4**	<100	<1.0	<1.0	<1.0	<2.0
	HMW-11-113022	11/30/2022	**1.3**[11]	**0.51**	480	2.1	<1.0	<1.0	<2.0
	HMW-11-053123	5/31/2023	**3.5**	**2.5**	770	1.7	<1.0	<1.0	<2.0
	HMW-11-112823	11/28/2023	**4.2**[11]	**1.1**	490	1.7	<1.0	<1.0	<2.0
MTCA Method A Cleanup Levels for Groundwater[6]			**0.5**	**0.5**	**800**	**5**	**1,000**	**700**	**1,000**

Table 6
Summary of Laboratory Analytical Results for TPH and BTEX in Groundwater – January 2018 through November 2023
CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004

Well Identification	Sample Identification	Sample Date	Analytical Results (milligrams per liter)		Analytical Results (micrograms per liter)				
			DRO[1]	ORO[1]	GRO[2]	Benzene[3]	Toluene[3]	Ethylbenzene[3]	Total Xylenes[3]
HMW-13	HMW-13-011818	1/18/2018	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	HMW-13-080118	8/1/2018	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	HMW-13-012319	1/23/2019	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	HMW-13-082119	8/21/2019	<0.30	<0.48	<100	<1.0	<1.0	<1.0	<2.0
	HMW-13-112619	11/26/2019	0.27	<0.21	<100	<1.0	<1.0	<1.0	<2.0
	HMW-13-022420	2/24/2020	<0.21	0.22	<100	<1.0	<1.0	<1.0	<2.0
	HMW-13-052720	5/27/2020	<0.21	0.24	<100	<1.0	<1.0	<1.0	<2.0
	HMW-13-111120	11/11/2020	<0.20	<0.20	<100	<1.0	<1.0	<1.0	<2.0
	HMW-13-052521	5/25/2021	<0.20	0.24	<100	<1.0	<1.0	<1.0	<2.0
	HMW-13-113021	11/30/2021	<0.20	<0.20	<100	<1.0	<1.0	<1.0	<2.0
	HMW-13-052622	5/26/2022	<0.11	<0.22	<100	<1.0	<1.0	<1.0	<2.0
	HMW-13-113022	11/30/2022	<0.13	<0.20	<100	<1.0	<1.0	<1.0	<2.0
	HMW-13-053023	5/30/2023	<0.22	<0.17	<100	<1.0	<1.0	<1.0	<2.0
	HMW-13-112723	11/27/2023	0.42	0.21	<100	<1.0	<1.0	<1.0	<2.0
MTCA Method A Cleanup Levels for Groundwater[6]			**0.5**	**0.5**	**800**	**5**	**1,000**	**700**	**1,000**

NOTES:

<denotes analyte not detected at or exceeding the laboratory reporting limit listed.

Results in **bold** denote sample result or reporting limit exceeds applicable MTCA Method A cleanup levels for groundwater.

[1]Analyzed by Northwest Method NWTPH-Dx. Samples analyzed by OnSite Environmental Inc. between June 2008 and November 2016 were analyzed using acid silica gel cleanup procedure.

[2]Analyzed by Northwest Method NWTPH-Gx.

[3]Analyzed by U.S. Environmental Protection Agency Method 8021B.

[4]The practical quantitation limit is elevated due to interferences in the sample.

[5]Hydrocarbons in the diesel range are impacting the oil-range result.

[6]MTCA Method A Cleanup Levels for Groundwater, Table 720-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, as revised 2013.

[7]Sample collected using a disposable bailer.

[8]Hydrocarbons indicative of heavier fuels present in the sample are impacting the gasoline result.

[9]Quality assurance/quality control field duplicate sample.

[10]Duplicate sample analyzed at TestAmerica Laboratories Inc.

[11]Hydrocarbons in the gasoline-range are impacting the diesel-range result.

BTEX = benzene, toluene, ethylbenzene, and xylenes

DRO = TPH as diesel-range organics

GRO = TPH as gasoline-range organics

MTCA = Washington State Model Toxics Control Act Cleanup Regulation

ORO = TPH as oil-range organics

TPH = total petroleum hydrocarbons

Table 7
Summary of Laboratory Analytical Results for DRO and ORO in Groundwater – November 2021 through November 2023
CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004

Well Identification	Sample Identification	Sample Date	Analytical Results (milligrams per liter)			
			NWTPH-Dx without Sulfuric Acid Silica Gel or Silica Gel[1]		NWTPH-Dx with Sulfuric Acid Silica Gel or Silica Gel	
			DRO	ORO	DRO	ORO
CMW-2	CMW-2-113021	11/30/2021	**1.4**	**1.2**	<0.20[2]	<0.20[2]
	CMW-2-052622	5/26/2022	0.20	0.25	<0.24[3]	<0.24[3]
	CMW-2-113022	11/30/2022	**0.57**	**0.59**	<0.12[3]	<0.20[3]
	CMW-2-053123	5/31/2023	0.43	**0.64**	<0.22[3]	<0.22[3]
	CMW-2-112823	11/28/2023	**1.2**	**1.5**	<0.20[3]	<0.20[3]
CMW-8	CMW-8-113021	11/30/2021	**0.58**	0.35	<0.20[2]	<0.20[2]
	CMW-8-052522	5/25/2022	**0.79**	**0.60**	<0.20[3]	<0.20[3]
	CMW-8-113022	11/30/2022	0.28	0.29	<0.11[3]	<0.20[3]
	CMW-8-053123	5/31/2023	**0.64**	**0.71**	<0.20[3]	<0.20[3]
	CMW-8-112823	11/28/2023	0.28	0.35	<0.20[3]	<0.20[3]
CMW-10	CMW-10-113021	11/30/2021	**2.8**	**2.9**	<0.20[2]	<0.20[2]
	CMW-10-052622	5/26/2022	**0.62**	**0.51**	<0.23[3]	<0.23[3]
	CMW-10-113022	11/30/2022	**1.8**	**0.77**	<0.12[3]	<0.20[3]
	CMW-10-053123	5/31/2023	**3.0**	**4.5**	0.28[3]	<0.22[3]
	CMW-10-112823	11/28/2023	**1.6**	**0.58**	0.27[3]	<0.20[3]
CMW-12	CMW-12-113021	11/30/2021	**0.64**	0.33	<0.20[2]	<0.20[2]
	QA/QC-1-113021[4]	11/30/2021	**0.65**	0.32	<0.21[2]	<0.21[2]
	CMW-12-052622	5/26/2022	**0.80**	0.44	<0.22[3]	<0.22[3]
	QA/QC-2-052622[4]	5/26/2022	**0.84**	0.49	<0.20[3]	<0.20[3]
	CMW-12-113022	11/30/2022	0.43	0.26	<0.12[3]	<0.20[3]
	QA/QC-1-113022[4]	11/30/2022	0.39	0.30	<0.12[3]	<0.20[3]
	CMW-12-053123	5/31/2023	**1.0**	**1.1**	<0.20[3]	<0.20[3]
	QA/QC-1-053123[4]	5/31/2023	**0.88**	**0.89**	<0.21[3]	<0.21[3]
	CMW-12-112723	11/27/2023	0.29	0.29	<0.21[3]	<0.21[3]
	QA/QC-1-112723[4]	11/27/2023	0.32	0.36	<0.20[3]	<0.20[3]
CMW-13	CMW-13-113021	11/30/2021	**0.57**	0.34	<0.21[2]	<0.21[2]
	CMW-13-052522	5/25/2022	**1.4**	**0.67**	<0.22[3]	<0.22[3]
	CMW-13-113022	11/30/2022	0.44[5]	0.22	<0.16[3]	<0.20[3]
	CMW-13-053123	5/31/2023	**1.5**	**1.2**	<0.20[3]	<0.20[3]
	CMW-13-112723	11/27/2023	**0.68**	0.37	<0.20[3]	<0.20[3]
MTCA Method A Cleanup Levels for Groundwater[6]			**0.5**	**0.5**	**0.5**	**0.5**

Table 7
Summary of Laboratory Analytical Results for DRO and ORO in Groundwater – November 2021 through November 2023
CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004

Well Identification	Sample Identification	Sample Date	Analytical Results (milligrams per liter)			
			NWTPH-Dx without Sulfuric Acid Silica Gel or Silica Gel[1]		NWTPH-Dx with Sulfuric Acid Silica Gel or Silica Gel	
			DRO	ORO	DRO	ORO
CMW-25	CMW-25-112921	11/29/2021	<0.20	<0.20	<0.20[2]	<0.20[2]
	CMW-25-052522	5/25/2022	<0.11	<0.22	<0.22[3]	<0.22[3]
	CMW-25-113022	11/30/2022	<0.13	<0.20	<0.12[3]	<0.20[3]
	CMW-25-053023	5/30/2023	<0.21	<0.15	<0.21[3]	<0.21[3]
	CMW-25-112823	11/28/2023	<0.15	<0.20	<0.20[3]	<0.20[3]
CMW-26	CMW-26-112921	11/29/2021	<0.20	<0.20	<0.20[2]	<0.20[2]
	CMW-26-052522	5/25/2022	<0.11	<0.21	<0.21[3]	<0.21[3]
	CMW-26-113022	11/30/2022	<0.13	<0.20	<0.12[3]	<0.20[3]
	CMW-26-053023	5/30/2023	<0.21	<0.15	<0.21[3]	<0.21[3]
	CMW-26-112723	11/27/2023	<0.15	<0.20	<0.20[3]	<0.20[3]
CMW-27	CMW-27-113021	11/30/2021	**8.9**[5]	**4.8**	**0.88**[5,2]	<0.21[2]
	QA/QC-2-113021[4]	11/30/2021	**6.7**[5]	**2.8**	**0.93**[5,2]	<0.21[2]
	CMW-27-052622	5/26/2022	**1.6**	**1.0**	0.28[3]	<0.22[3]
	QA/QC-1-052622[4]	5/26/2022	**1.6**	**1.1**	0.32[3]	<0.23[3]
	CMW-27-113022	11/30/2022	**2.1**[5]	**0.61**	**0.75**[3,5]	<0.20[3]
	QA/QC-2-113022[4]	11/30/2022	**1.7**[5]	**0.61**	**0.64**[3,5]	<0.20[3]
	CMW-27-053123	5/31/2023	**2.5**	**3.0**	0.23[3]	<0.20[3]
	QA/QC-2-053123[4]	5/31/2023	**2.9**	**4.2**	0.24[3]	<0.21[3]
	CMW-27-112823	11/28/2023	**1.9**[5]	**0.65**	**0.51**[3,5]	<0.20[3]
	QA/QC-2-112823[4]	11/28/2023	**2.7**[5]	**0.62**	**0.75**[3,5]	<0.20[3]
CMW-28	CMW-28-113021	11/30/2021	<0.20	<0.20	<0.20[2]	<0.20[2]
	CMW-28-052522	5/25/2022	**1.1**	**0.68**	<0.23[3]	<0.23[3]
	CMW-28-112922	11/29/2022	0.24	0.31	<0.12[3]	<0.20[3]
	CMW-28-053023	5/30/2023	**1.5**	**1.1**	<0.20[3]	<0.20[3]
	CMW-28-112723	11/27/2023	**0.61**	**0.90**	<0.20[3]	<0.20[3]
CMW-29	CMW-29-112921	11/29/2021	**0.74**	**0.87**	<0.20[2]	<0.20[2]
	CMW-29-052522	5/25/2022	**0.74**	**0.56**	<0.23[3]	<0.23[3]
	CMW-29-113022	11/30/2022	0.17	0.20	<0.12[3]	<0.20[3]
	CMW-29-053023	5/30/2023	0.48	0.46	<0.22[3]	<0.22[3]
	CMW-29-112723	11/27/2023	<0.15	<0.20	<0.20[3]	<0.20[3]
MTCA Method A Cleanup Levels for Groundwater[6]			**0.5**	**0.5**	**0.5**	**0.5**

Table 7
Summary of Laboratory Analytical Results for DRO and ORO in Groundwater – November 2021 through November 2023
CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004

Well Identification	Sample Identification	Sample Date	Analytical Results (milligrams per liter)			
			NWTPH-Dx without Sulfuric Acid Silica Gel or Silica Gel[1]		NWTPH-Dx with Sulfuric Acid Silica Gel or Silica Gel	
			DRO	ORO	DRO	ORO
CMW-30	CMW-30-112921	11/29/2021	0.23	<0.20	<0.20[2]	<0.20[2]
	CMW-30-052522	5/25/2022	0.40	0.29	<0.21[3]	<0.21[3]
	CMW-30-112922	11/29/2022	0.47	<0.20	<0.12[3]	<0.20[3]
	CMW-30-053023	5/30/2023	0.33	0.21	<0.22[3]	<0.22[3]
	CMW-30-112723	11/27/2023	0.18	0.26	<0.20[3]	<0.20[3]
CMW-31	CMW-31-112921	11/29/2021	<0.20	<0.20	<0.20[2]	<0.20[2]
	CMW-31-052522	5/25/2022	<0.10	<0.20	<0.20[3]	<0.20[3]
	CMW-31-112922	11/29/2022	0.25	<0.20	<0.12[3]	<0.20[3]
	CMW-31-053123	5/31/2023	<0.21	0.27	<0.21[3]	<0.21[3]
	CMW-31-112823	11/28/2023	0.18	0.23	<0.21[3]	<0.21[3]
HMW-9	HMW-9-113021	11/30/2021	0.30	0.32	<0.21[2]	<0.21[2]
	HMW-9-052622	5/26/2022	**0.77**	**0.65**	<0.21[3]	<0.21[3]
	HMW-9-113022	11/30/2022	0.18	0.45	<0.12[3]	0.35[3]
	HMW-09-053123	5/31/2023	**0.96**	**1.3**	<0.20[3]	0.22[3]
	HMW-9-112723	11/27/2023	0.35	0.50	<0.20[3]	<0.20[3]
HMW-10	HMW-10-113021	11/30/2021	0.50	0.23	<0.20[2]	<0.20[2]
	HMW-10-052622	5/26/2022	**1.5**	**0.75**	<0.20[3]	<0.20[3]
	HMW-10-113022	11/30/2022	**0.52**	0.28	<0.12[3]	<0.20[3]
	HMW-10-053123	5/31/2023	**1.0**	**0.75**	<0.22[3]	<0.22[3]
	HMW-10-112823	11/28/2023	0.49	0.41	<0.20[3]	<0.20[3]
HMW-11	HMW-11-113021	11/30/2021	0.36	0.38	<0.20[2]	<0.20[2]
	HMW-11-052622	5/26/2022	**2.5**	**1.4**	<0.20[3]	<0.20[3]
	HMW-11-113022	11/30/2022	**1.3**[5]	**0.51**	0.36[3,5]	<0.20[3]
	HMW-11-053123	5/31/2023	**3.5**	**2.5**	0.42[3]	<0.22[3]
	HMW-11-112823	11/28/2023	**4.2**[5]	**1.1**	0.50[3,5]	<0.20[3]
MTCA Method A Cleanup Levels for Groundwater[6]			**0.5**	**0.5**	**0.5**	**0.5**

Table 7
Summary of Laboratory Analytical Results for DRO and ORO in Groundwater – November 2021 through November 2023
CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004

Well Identification	Sample Identification	Sample Date	Analytical Results (milligrams per liter)			
			NWTPH-Dx without Sulfuric Acid Silica Gel or Silica Gel[1]		NWTPH-Dx with Sulfuric Acid Silica Gel or Silica Gel	
			DRO	ORO	DRO	ORO
HMW-13	HMW-13-113021	11/30/2021	<0.20	<0.20	<0.20[2]	<0.20[2]
	HMW-13-052622	5/26/2022	<0.11	<0.22	<0.22[3]	<0.22[3]
	HMW-13-113022	11/30/2022	<0.13	<0.20	<0.12[3]	<0.20[3]
	HMW-13-053023	5/30/2023	<0.22	<0.17	<0.22[3]	<0.22[3]
	HMW-13-112723	11/27/2023	0.42	0.21	<0.20[3]	<0.20[3]
MTCA Method A Cleanup Levels for Groundwater[6]			**0.5**	**0.5**	**0.5**	**0.5**

NOTES:

<denotes analyte not detected at or exceeding the laboratory reporting limit listed.

Results in **bold** denote sample result or reporting limit exceeds applicable MTCA Method A cleanup levels for groundwater.

[1]Analyzed by Northwest Method NWTPH-Dx without a sulfuric acid/silica gel or silica gel cleanup procedure.

[2]Analyzed by Northwest Method NWTPH-Dx with a sulfuric acid/silica gel cleanup procedure.

[3]Analyzed by Northwest Method NWTPH-Dx with a silica gel cleanup procedure.

[4]Quality assurance/quality control field duplicate sample.

[5]Hydrocarbons in the gasoline-range are impacting the diesel-range result.

[6]MTCA Method A Cleanup Levels for Groundwater, Table 720-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, as revised 2013.

DRO = TPH as diesel-range organics

MTCA = Washington State Model Toxics Control Act Cleanup Regulation

ORO = TPH as oil-range organics

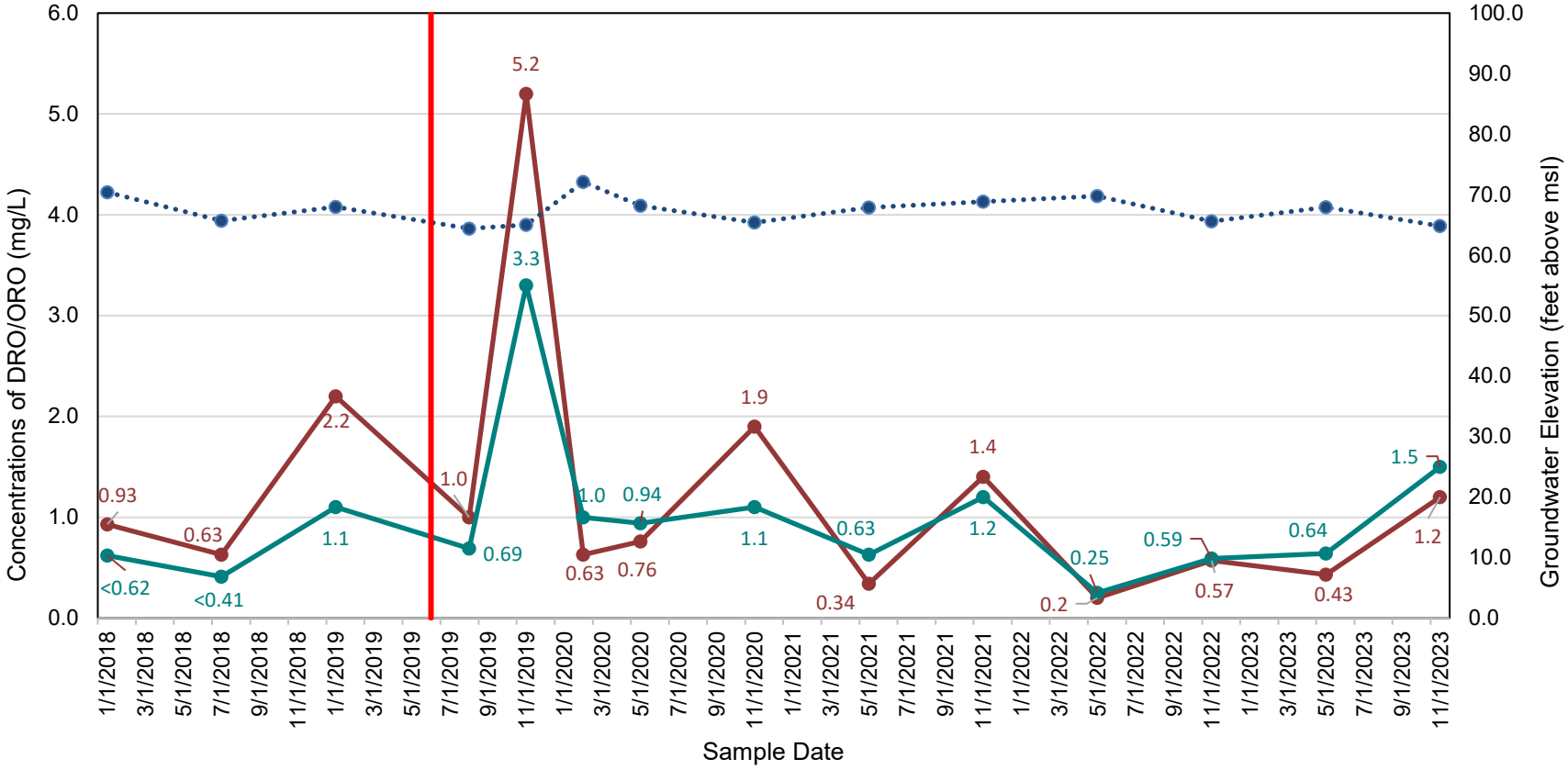
TPH = total petroleum hydrocarbons

CHARTS

THIRD AND FOURTH QUARTER 2023
GROUNDWATER MONITORING AND TREATMENT SYSTEM
OPERATION AND MAINTENANCE REPORT
CHS Auburn Site
Auburn, Washington

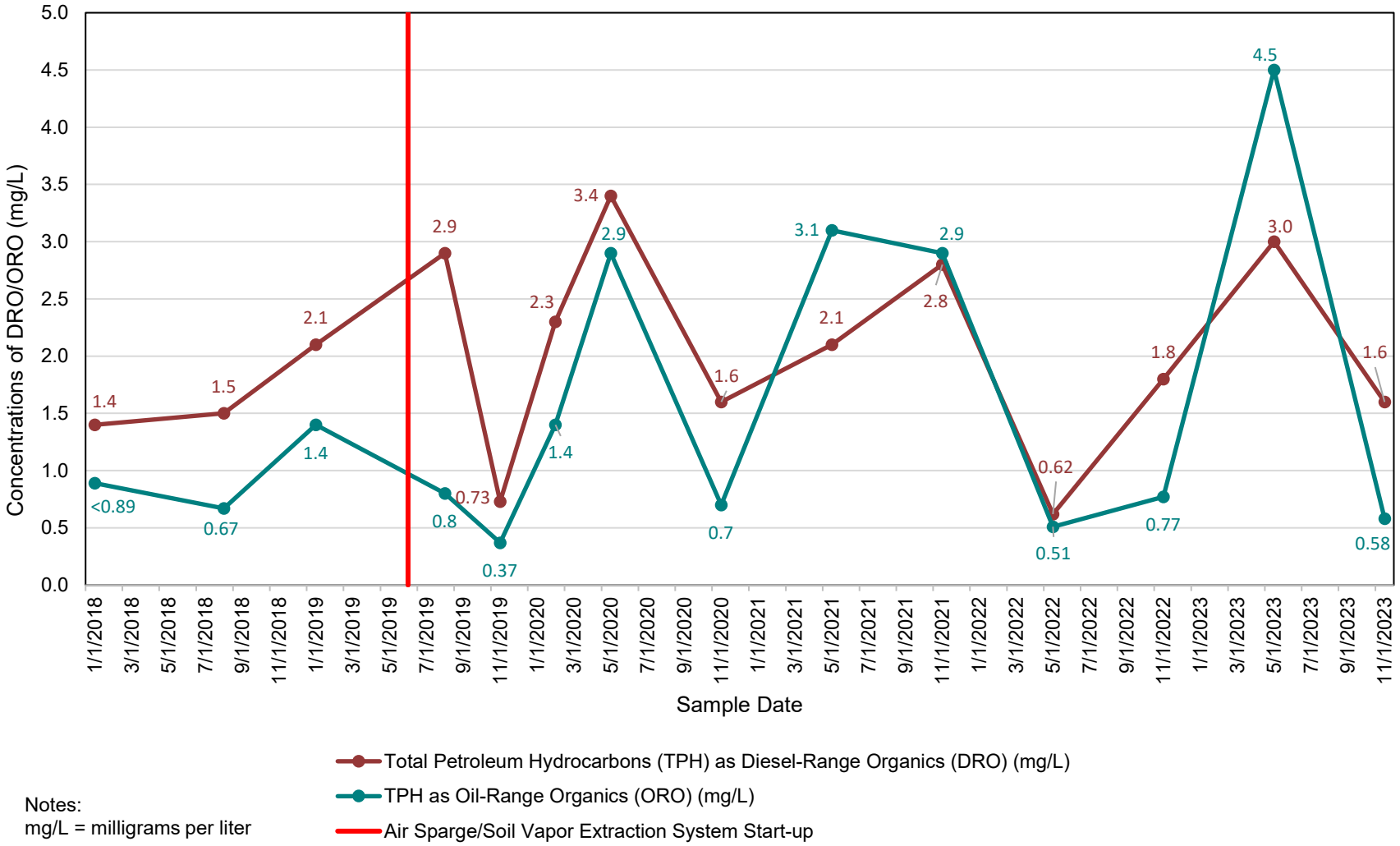
Farallon PN: 301-004

Chart 1
DRO and ORO Concentration Data Trends for Monitoring Well CMW-2
CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004



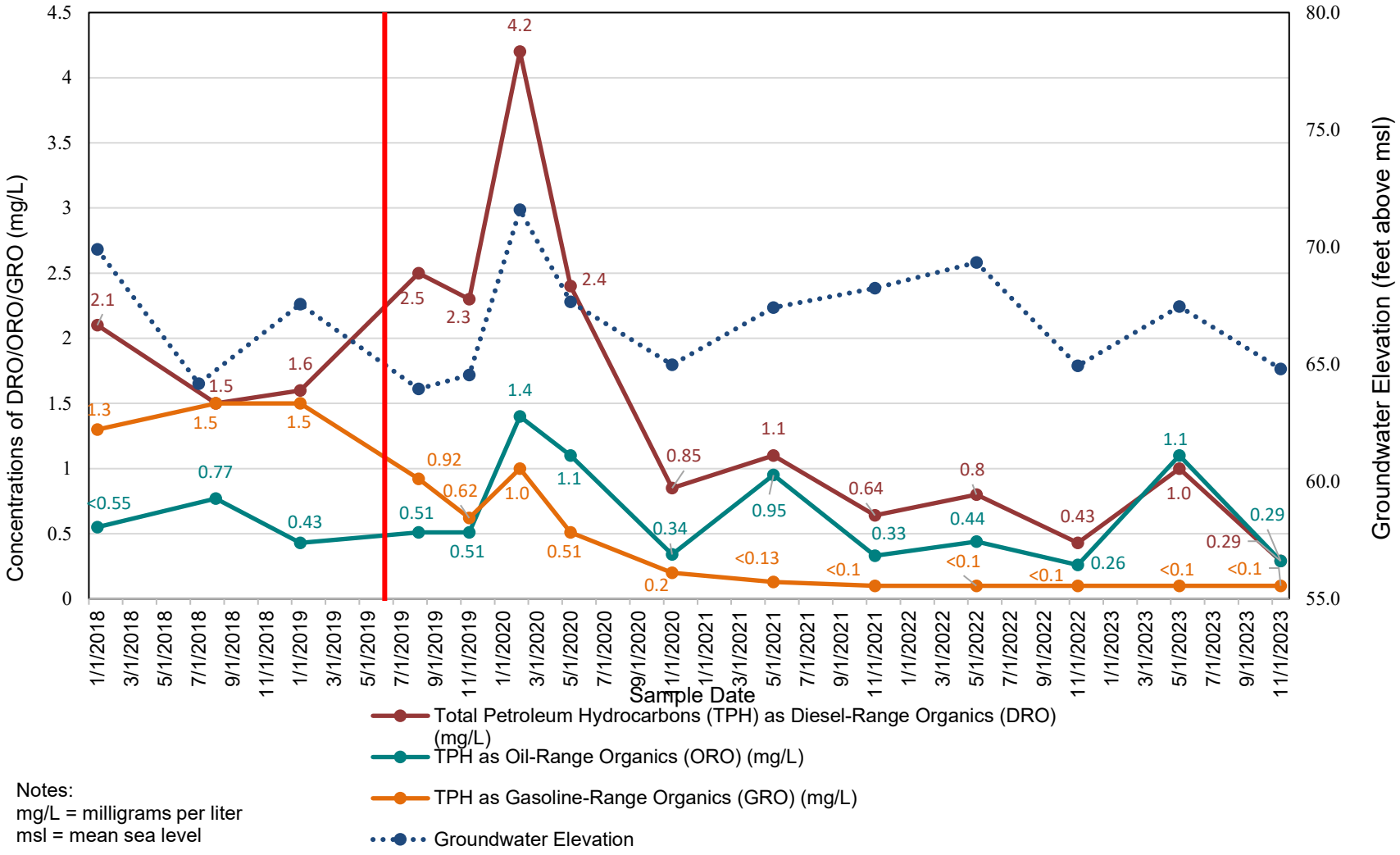
Notes:
mg/L = milligrams per liter
msl = mean sea level

Chart 2
DRO and ORO Concentration Data Trends for Monitoring Well CMW-10
CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004



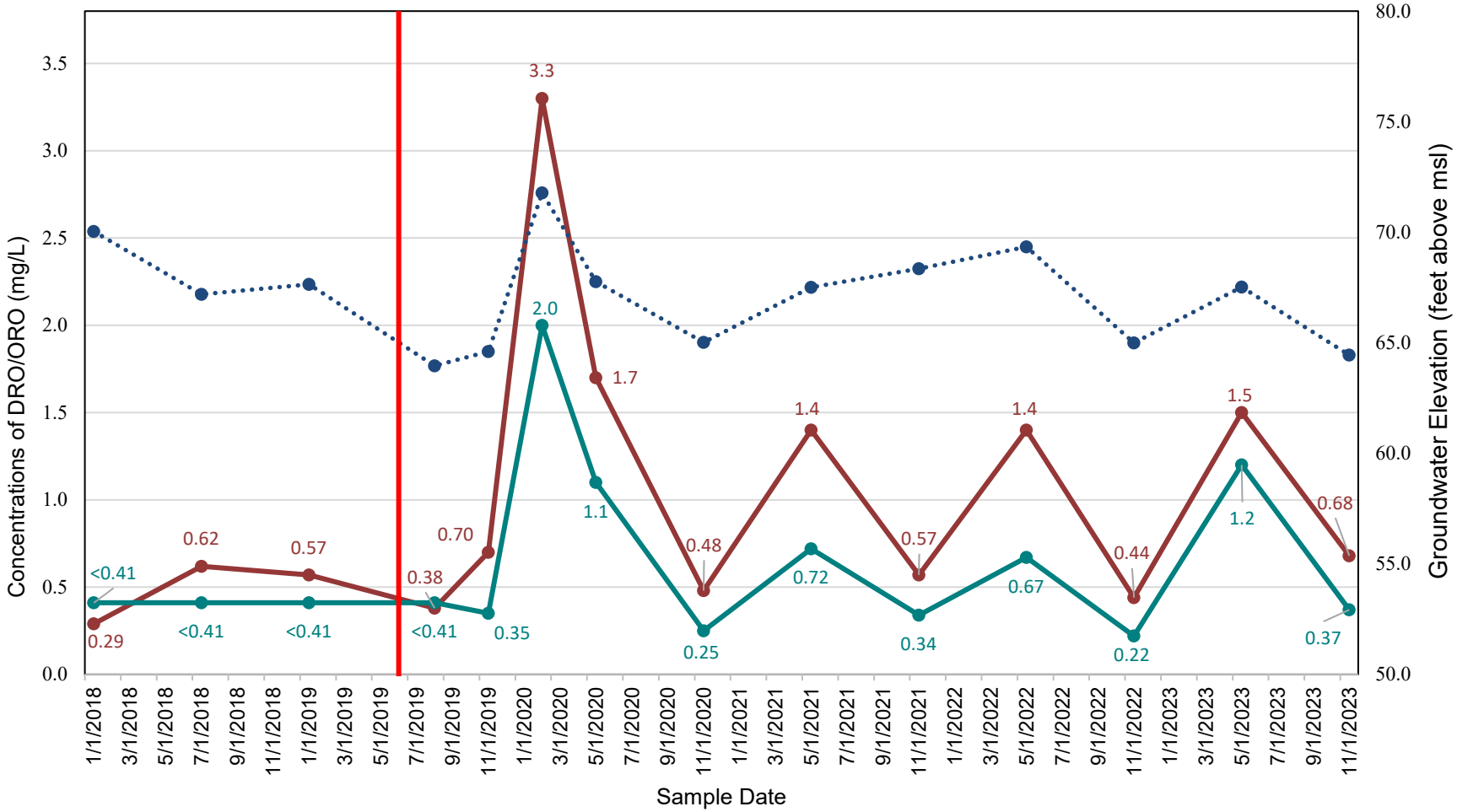
Notes:
mg/L = milligrams per liter

Chart 3
DRO, ORO, and GRO Concentration Data Trends for Monitoring Well CMW-12
CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004



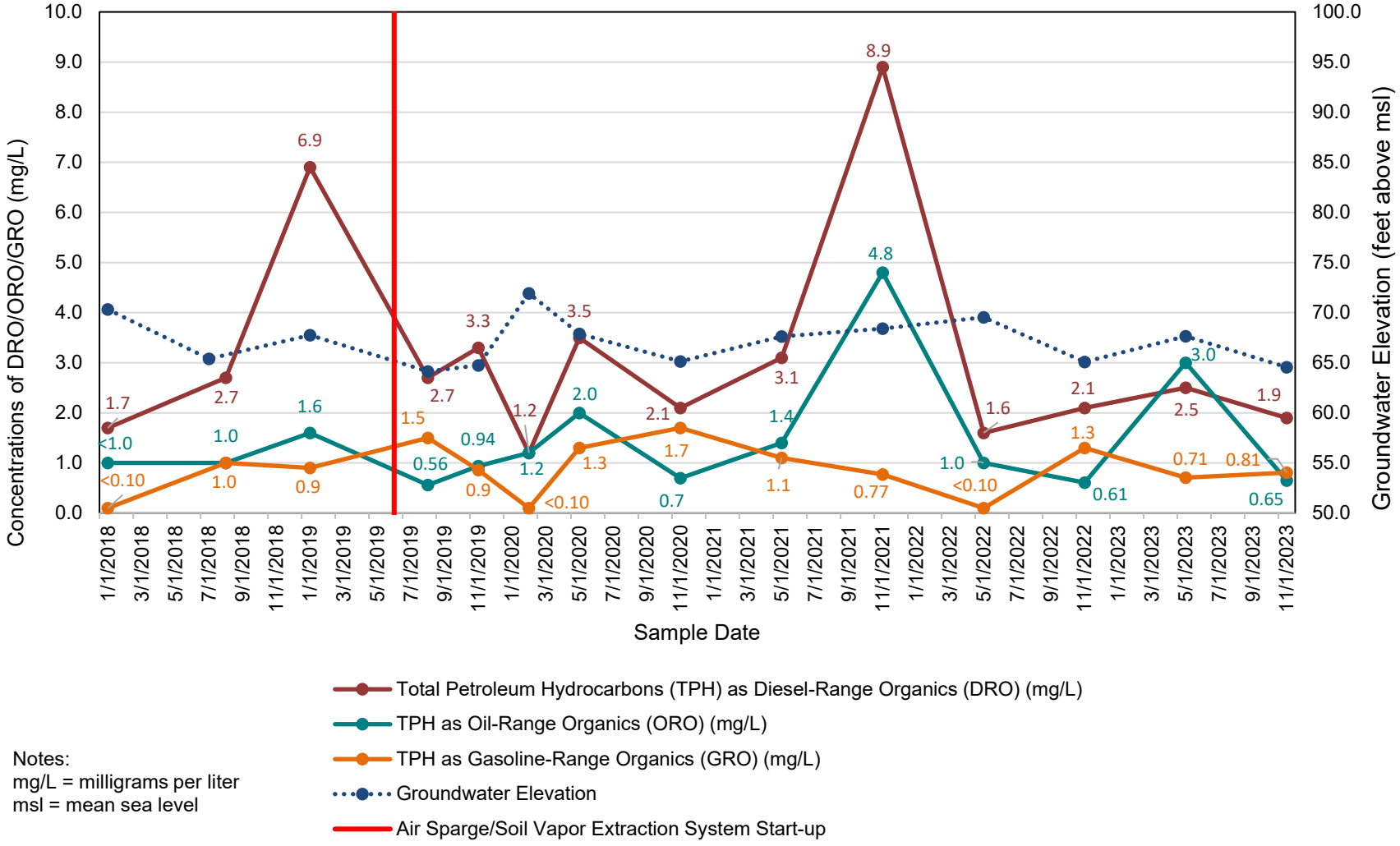
Notes:
mg/L = milligrams per liter
msl = mean sea level

Chart 4
DRO Concentration Data Trend for Monitoring Well CMW-13
CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004



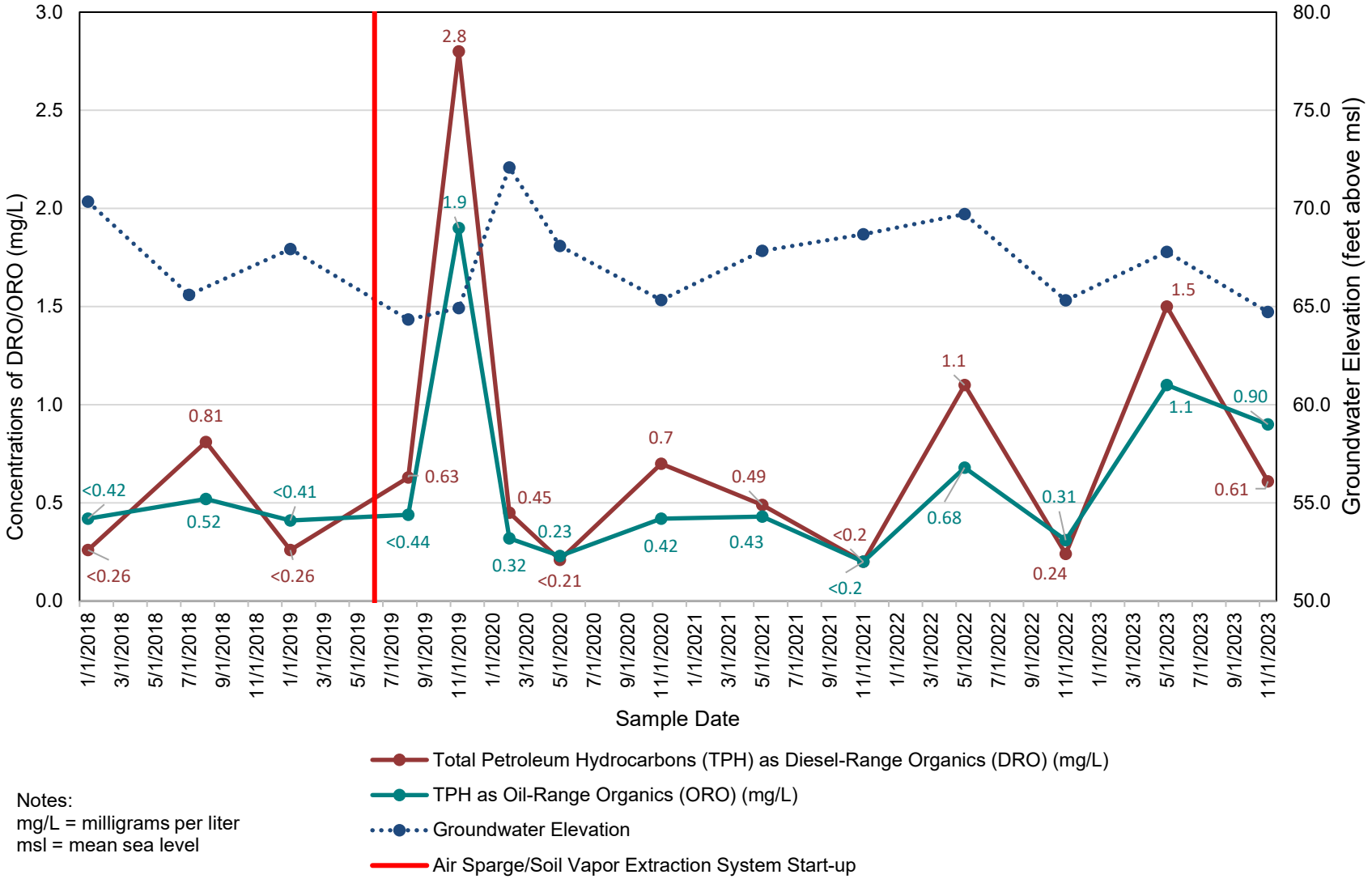
Notes:
mg/L = milligrams per liter
msl = mean sea level

Chart 5
DRO, ORO, and GRO Concentration Data Trends for Monitoring Well CMW-27
CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004



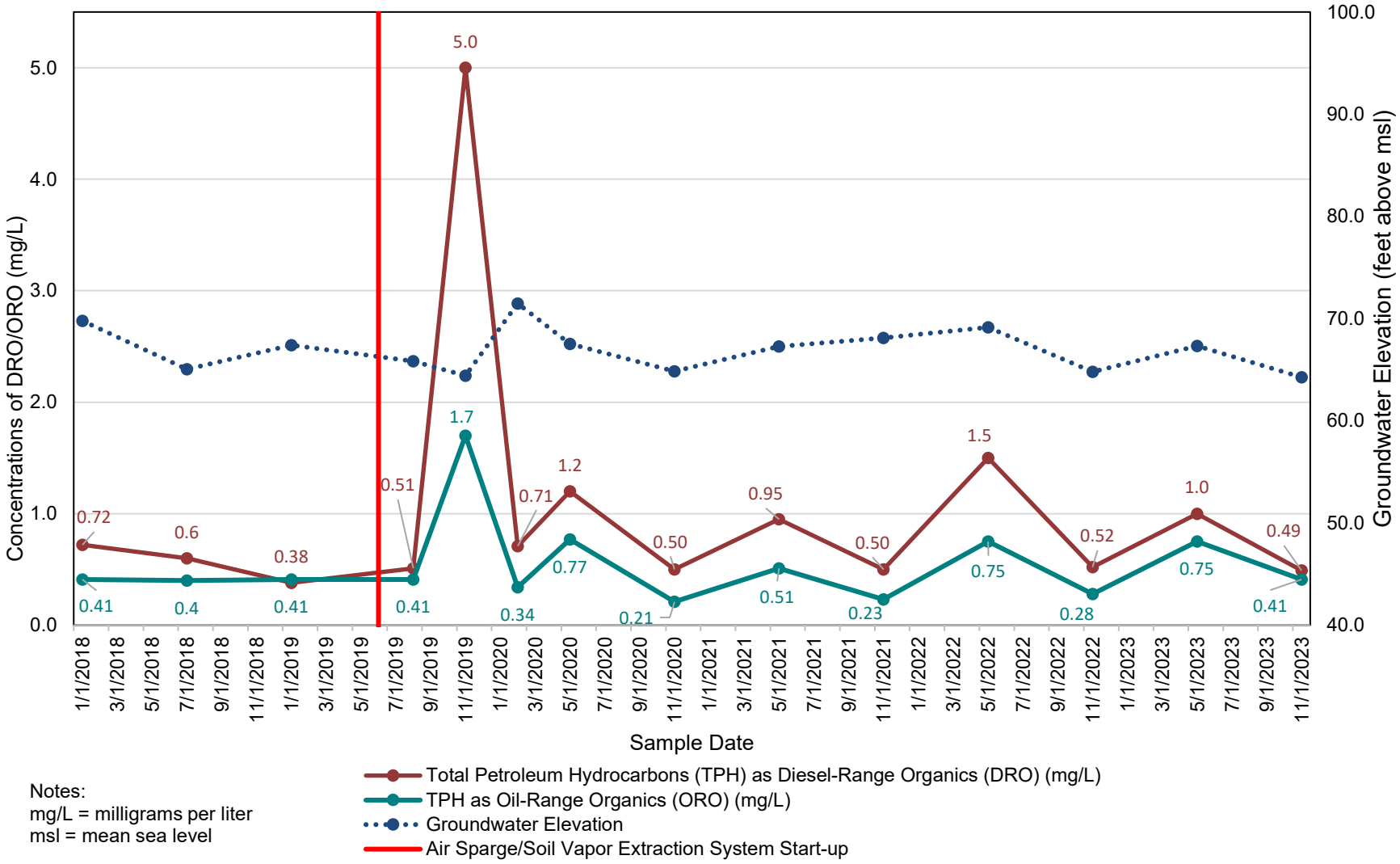
Notes:
mg/L = milligrams per liter
msl = mean sea level

Chart 6
DRO and ORO Concentration Data Trends for Monitoring Well CMW-28
CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004



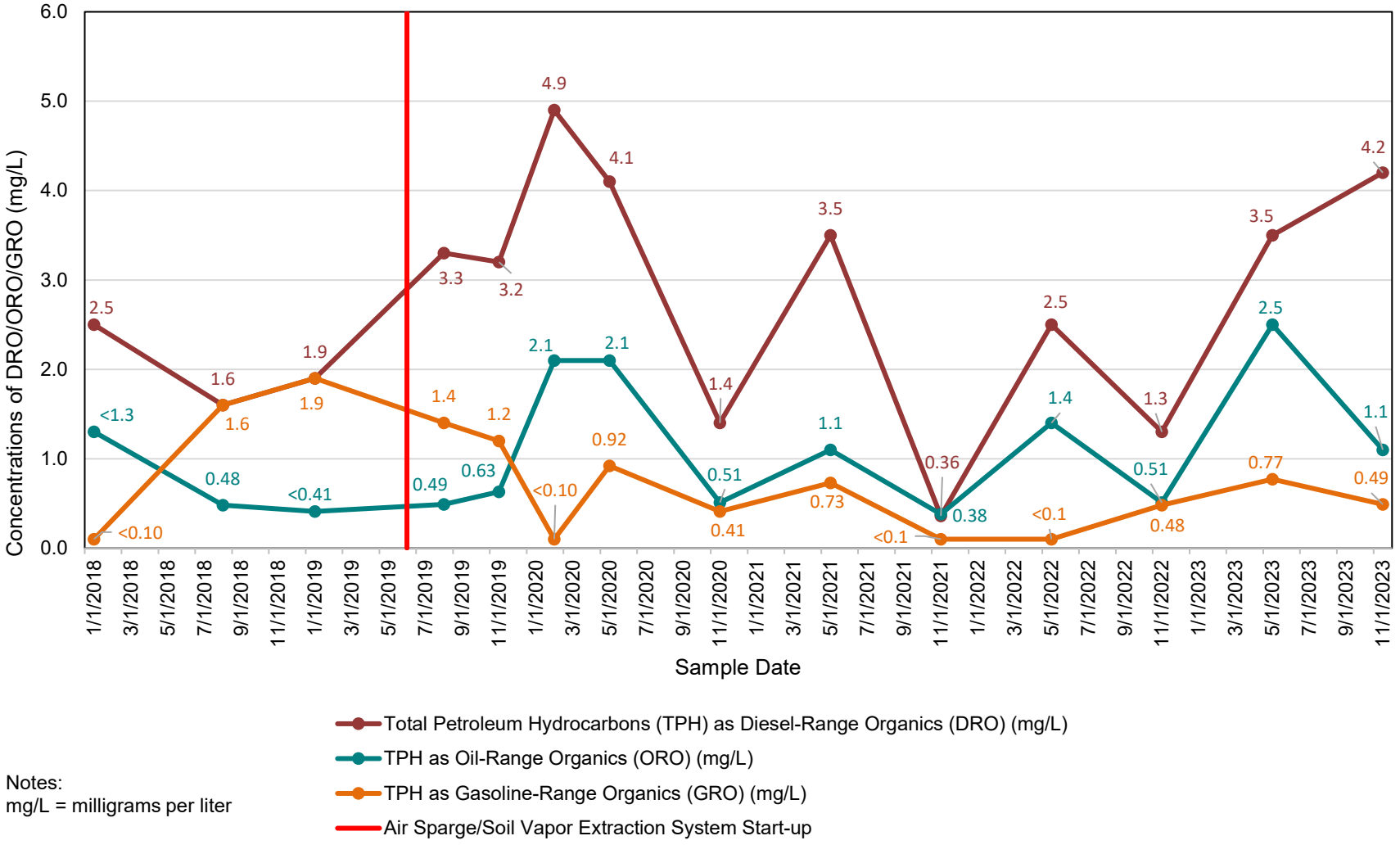
Notes:
mg/L = milligrams per liter
msl = mean sea level

Chart 7
DRO Concentration Data Trend for Monitoring Well HMW-10
CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004



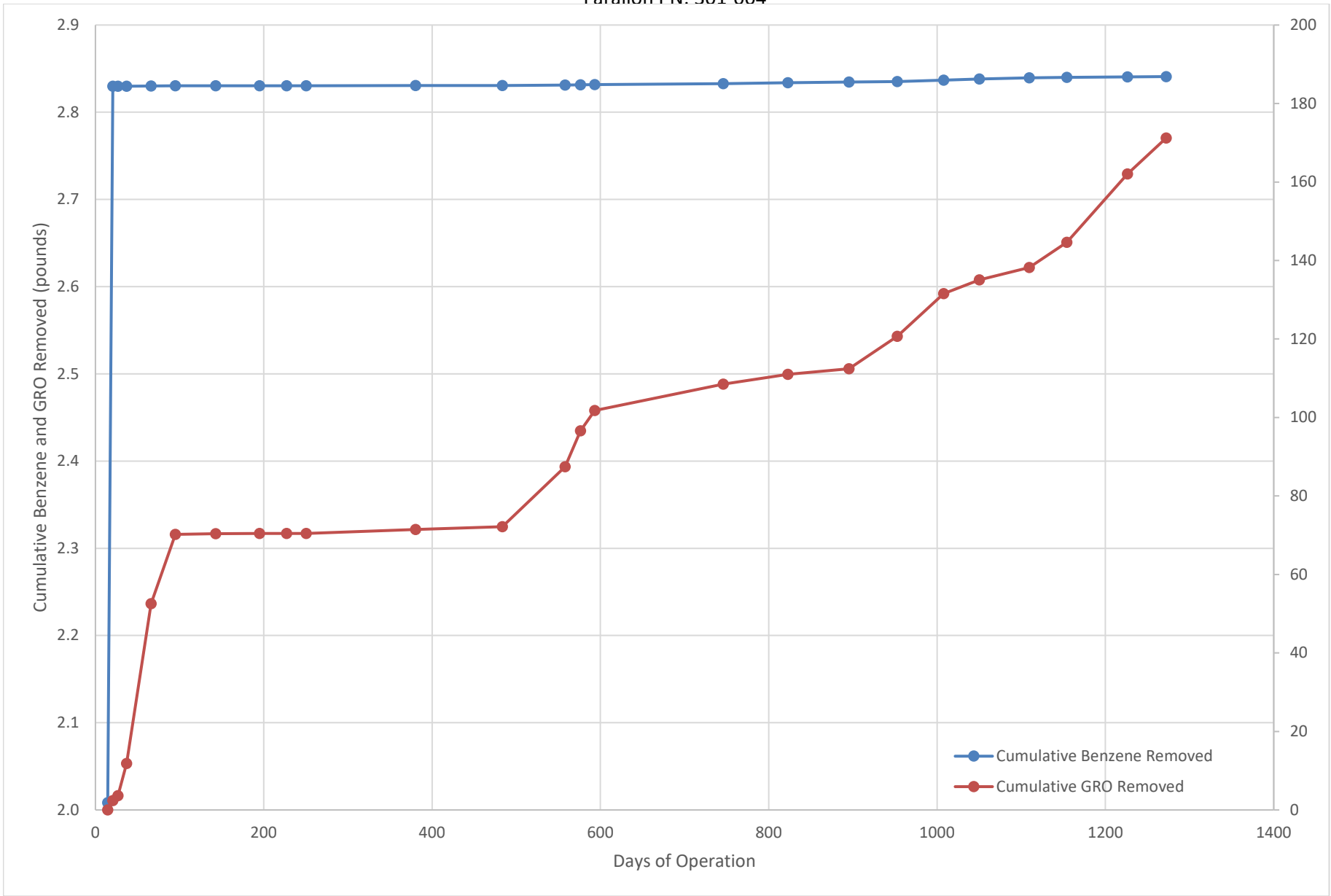
Notes:
mg/L = milligrams per liter
msl = mean sea level

Chart 8
DRO, ORO, and GRO Concentration Data Trends for Monitoring Well HMW-11
CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004



Notes:
mg/L = milligrams per liter

Chart 9
Cumulative Pounds of Benzene and GRO Removed
CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004



APPENDIX A
WASTE DISPOSAL DOCUMENTATION

THIRD AND FOURTH QUARTER 2023
GROUNDWATER MONITORING AND TREATMENT SYSTEM
OPERATION AND MAINTENANCE REPORT
CHS Auburn Site
Auburn, Washington

Farallon PN: 301-004

TSDF

GENERATOR WASTE PROFILE SHEET

Treatment Code

A. GENERAL INFORMATION

Generator Name:	**CHS Inc**			**Profile Number**	
Mailing Address:	**c/o Farallon 975 5th Ave NW**			**Generator US EPA ID:**	N/A
	Issaquah, WA 98027		Treatment Code	**Generator State ID:**	**N/A**
Site Pick-up Address:	**235 8th Street SE**			**Phone:**	425-295-0827
	Auburn WA 98002			**Fax:**	
Technical Contact:	Javan Ruark	**Title** PM		**Email:**	
Name of Waste:	Non Hazardous Water				
Process Generating Waste:	Investigation Derived Waste, Water, from drilling and sampling at a fueling facility				
NAICS CODE:	**44711**	**SOURCE CODE:**	G49	**FORM CODE:**	W219

B. PHYSICAL CHARACTERISTICS OF WASTE AT 25 C OR 77 F

Physical State:	Water	Color: (Describe)	Cloudy Brown		Clarity:	Cloudy		Phase Separation Number of Layers = One		One	
pH:	<2	>12.5	Specific Gravity:	<0.8	>1.2	Flash Point (F):	<73	X >200	BTU Value:	< 2000	
(Select one of the following ranges)	4-6			X 0.8-1.0			73-100			2,000 - 5000	
	7			1.0			101-140			5000 - 10, 000	X
	X 7-12.4			1.0-1.2			141-200			> 10,000	

C. CHEMICAL COMPOSITION / UHC's

BASED UPON: ANALYTICAL (INCLUDED) X GENERATOR KNOWLEDGE

Constituent:	RANGE Lower	Upper	
Groundwater	95	100	%
Sediment	0	5	%
Diesel	0	4.9	mg/l
Gasoline	0	1800	ug/l
Benzene	0	4	ug/l
Ethylbenzene	0	16	ug/l
Xylene	0	7.9	ug/l
Oil	0	5.1	mg/l
Toluene	0	3.4	ug/l

D. METALS

	Total	Total (PPB)		EPA Extraction Process (MG/ML)
Arsenic	N/A			
Barium	N/A		N/A	Silver
Cadmium	N/A		N/A	Copper
Chromium	N/A		N/A	Nickel
Mercury	N/A		N/A	Zinc
Lead	N/A			
Selenium				

E. OTHER COMPONENTS

OXIDIZER	No	REACTIVE SULFIDES PPM	No
EXPLOSIVE	No	REACTIVE CYANIDES PPM	No
SHOCK SENSITIVE	No	WATER/AIR REACTIVE	No
TIRES	No	THERMALLY UNSTABLE	No
PYROPHORIC	No	TSCA REGULATED PCB WASTE	No
RADIOACTIVE	No	COMPRESSED GASSES	No
EXEMPT RAD	No	CERCLA/SUPERFUND	No
Ethiological	No	Pesticide Manufacturing Waste	No

HALOGENATED ORGANIC COMPOUNDS PER 40 CFR 268, APPENDIX III YES X NO

Debris YES X NO <500 PPM VOC as generated X YES NO

Subject to NESHAP Regulations YES X NO

US EPA Hazardous Waste: Yes No X WW NWW

US EPA Hazardous Waste Codes: None

F. SHIPPING INFORMATION

DOT Hazardous Material Yes NO X Exempted ☐

Proper Shipping Name N/A

Hazard Class N/A N/A

ID # N/A PG: N/A RQ: N/A

Anticipated Volume (Units): *6 x 55DM*

Per One time x Month

Quarter Year

G. Special Handling Information:

H. GENERATOR'S CERTIFICATION: X Yes No I certify this material may be disposed of without further treatment.

I hereby certify that all information in this and all attached documents is complete and accurate, and that all known or sustpected hazards have been disclosed. I futher certify that any samples submitted with this profile are representative of the waste to be shipped and are taken in accordance with SW 846 or other approved procedures. I agree to notify ACT in writing when the process generating this waste stream changes or when I have reason to believe the data contained herein is not complete and accurate.

Signature: _____ Title: Sr. Environmental Specialist Date: 01.03.24

Print Name: Shawna Conroy

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number

GENERATOR

5. Generator's Name and Mailing Address

Generator's Phone:

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1.					
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name | Signature | Month | Day | Year

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name | Signature | Month | Day | Year

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) | Month | Day | Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name | Signature | Month | Day | Year

GENERATOR'S/SHIPPER'S INITIAL COPY

APPENDIX B
LABORATORY ANALYTICAL REPORTS

THIRD AND FOURTH QUARTER 2023
GROUNDWATER MONITORING AND TREATMENT SYSTEM
OPERATION AND MAINTENANCE REPORT
CHS Auburn Site
Auburn, Washington

Farallon PN: 301-004

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

December 7, 2023

Tracey Mulhern
Farallon Consulting
1201 Cornwall Avenue, Suite 105
Bellingham, WA 98225

Re: Analytical Data for Project 301-004
Laboratory Reference No. 2311-274

Dear Tracey:

Enclosed are the analytical results and associated quality control data for samples submitted on November 29, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: December 7, 2023
Samples Submitted: November 29, 2023
Laboratory Reference: 2311-274
Project: 301-004

Case Narrative

Samples were collected on November 27 and 28, 2023 and received by the laboratory on November 29, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: December 7, 2023
Samples Submitted: November 29, 2023
Laboratory Reference: 2311-274
Project: 301-004

GASOLINE RANGE ORGANICS/BTEX
NWTPH-Gx/EPA 8021B

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**CMW-13-112723**					
Laboratory ID:	11-274-01					
Benzene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
Toluene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
Ethylbenzene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
m,p-Xylene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
o-Xylene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
Gasoline	**ND**	100	NWTPH-Gx	11-29-23	11-29-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*83*	*65-122*				
Client ID:	**HMW-9-112723**					
Laboratory ID:	11-274-02					
Benzene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
Toluene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
Ethylbenzene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
m,p-Xylene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
o-Xylene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
Gasoline	**ND**	100	NWTPH-Gx	11-29-23	11-29-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*77*	*65-122*				
Client ID:	**CMW-12-112723**					
Laboratory ID:	11-274-03					
Benzene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
Toluene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
Ethylbenzene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
m,p-Xylene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
o-Xylene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
Gasoline	**ND**	100	NWTPH-Gx	11-29-23	11-29-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*75*	*65-122*				

Date of Report: December 7, 2023
Samples Submitted: November 29, 2023
Laboratory Reference: 2311-274
Project: 301-004

GASOLINE RANGE ORGANICS/BTEX
NWTPH-Gx/EPA 8021B

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**QA/QC-1-112723**					
Laboratory ID:	11-274-04					
Benzene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
Toluene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
Ethylbenzene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
m,p-Xylene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
o-Xylene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
Gasoline	**ND**	100	NWTPH-Gx	11-29-23	11-29-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*73*	*65-122*				
Client ID:	**CMW-30-112723**					
Laboratory ID:	11-274-05					
Benzene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
Toluene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
Ethylbenzene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
m,p-Xylene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
o-Xylene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
Gasoline	**ND**	100	NWTPH-Gx	11-29-23	11-29-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*74*	*65-122*				
Client ID:	**CMW-29-112723**					
Laboratory ID:	11-274-06					
Benzene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
Toluene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
Ethylbenzene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
m,p-Xylene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
o-Xylene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
Gasoline	**ND**	100	NWTPH-Gx	11-29-23	11-29-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*72*	*65-122*				

Date of Report: December 7, 2023
Samples Submitted: November 29, 2023
Laboratory Reference: 2311-274
Project: 301-004

GASOLINE RANGE ORGANICS/BTEX
NWTPH-Gx/EPA 8021B

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HMW-13-112723**					
Laboratory ID:	11-274-07					
Benzene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
Toluene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
Ethylbenzene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
m,p-Xylene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
o-Xylene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
Gasoline	**ND**	100	NWTPH-Gx	11-29-23	11-29-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*67*	*65-122*				
Client ID:	**CMW-26-112723**					
Laboratory ID:	11-274-08					
Benzene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
Toluene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
Ethylbenzene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
m,p-Xylene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
o-Xylene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
Gasoline	**ND**	100	NWTPH-Gx	11-29-23	11-29-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*70*	*65-122*				
Client ID:	**CMW-28-112723**					
Laboratory ID:	11-274-09					
Benzene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
Toluene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
Ethylbenzene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
m,p-Xylene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
o-Xylene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
Gasoline	**ND**	100	NWTPH-Gx	11-29-23	11-29-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*66*	*65-122*				

Date of Report: December 7, 2023
Samples Submitted: November 29, 2023
Laboratory Reference: 2311-274
Project: 301-004

GASOLINE RANGE ORGANICS/BTEX
NWTPH-Gx/EPA 8021B

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**CMW-25-112823**					
Laboratory ID:	11-274-10					
Benzene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
Toluene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
Ethylbenzene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
m,p-Xylene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
o-Xylene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
Gasoline	**ND**	100	NWTPH-Gx	11-29-23	11-29-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*74*	*65-122*				
Client ID:	**CMW-31-112823**					
Laboratory ID:	11-274-11					
Benzene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
Toluene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
Ethylbenzene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
m,p-Xylene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
o-Xylene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
Gasoline	**ND**	100	NWTPH-Gx	11-29-23	11-29-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*67*	*65-122*				
Client ID:	**CMW-8-112823**					
Laboratory ID:	11-274-12					
Benzene	**ND**	1.0	EPA 8021B	12-1-23	12-1-23	
Toluene	**ND**	1.0	EPA 8021B	12-1-23	12-1-23	
Ethylbenzene	**ND**	1.0	EPA 8021B	12-1-23	12-1-23	
m,p-Xylene	**ND**	1.0	EPA 8021B	12-1-23	12-1-23	
o-Xylene	**ND**	1.0	EPA 8021B	12-1-23	12-1-23	
Gasoline	**ND**	100	NWTPH-Gx	12-1-23	12-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*83*	*65-122*				

Date of Report: December 7, 2023
Samples Submitted: November 29, 2023
Laboratory Reference: 2311-274
Project: 301-004

GASOLINE RANGE ORGANICS/BTEX
NWTPH-Gx/EPA 8021B

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**CMW-10-112823**					
Laboratory ID:	11-274-13					
Benzene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
Toluene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
Ethylbenzene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
m,p-Xylene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
o-Xylene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
Gasoline	**ND**	100	NWTPH-Gx	11-29-23	11-29-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*67*	*65-122*				
Client ID:	**CMW-27-112823**					
Laboratory ID:	11-274-14					
Benzene	**3.0**	1.0	EPA 8021B	11-29-23	11-29-23	
Toluene	**1.3**	1.0	EPA 8021B	11-29-23	11-29-23	
Ethylbenzene	**1.1**	1.0	EPA 8021B	11-29-23	11-29-23	
m,p-Xylene	**1.1**	1.0	EPA 8021B	11-29-23	11-29-23	
o-Xylene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
Gasoline	**810**	100	NWTPH-Gx	11-29-23	11-29-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*69*	*65-122*				
Client ID:	**QA/QC-2-112823**					
Laboratory ID:	11-274-15					
Benzene	**3.5**	1.0	EPA 8021B	11-29-23	11-29-23	
Toluene	**1.3**	1.0	EPA 8021B	11-29-23	11-29-23	
Ethylbenzene	**1.1**	1.0	EPA 8021B	11-29-23	11-29-23	
m,p-Xylene	**1.1**	1.0	EPA 8021B	11-29-23	11-29-23	
o-Xylene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
Gasoline	**840**	100	NWTPH-Gx	11-29-23	11-29-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*65*	*65-122*				

Date of Report: December 7, 2023
Samples Submitted: November 29, 2023
Laboratory Reference: 2311-274
Project: 301-004

GASOLINE RANGE ORGANICS/BTEX
NWTPH-Gx/EPA 8021B

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HMW-11-112823**					
Laboratory ID:	11-274-16					
Benzene	**1.7**	1.0	EPA 8021B	11-30-23	11-30-23	
Toluene	**ND**	1.0	EPA 8021B	11-30-23	11-30-23	
Ethylbenzene	**ND**	1.0	EPA 8021B	11-30-23	11-30-23	
m,p-Xylene	**ND**	1.0	EPA 8021B	11-30-23	11-30-23	
o-Xylene	**ND**	1.0	EPA 8021B	11-30-23	11-30-23	
Gasoline	**490**	100	NWTPH-Gx	11-30-23	11-30-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*72*	*65-122*				
Client ID:	**HMW-10-112823**					
Laboratory ID:	11-274-17					
Benzene	**ND**	1.0	EPA 8021B	11-30-23	11-30-23	
Toluene	**ND**	1.0	EPA 8021B	11-30-23	11-30-23	
Ethylbenzene	**ND**	1.0	EPA 8021B	11-30-23	11-30-23	
m,p-Xylene	**ND**	1.0	EPA 8021B	11-30-23	11-30-23	
o-Xylene	**ND**	1.0	EPA 8021B	11-30-23	11-30-23	
Gasoline	**ND**	100	NWTPH-Gx	11-30-23	11-30-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*73*	*65-122*				
Client ID:	**CMW-2-112823**					
Laboratory ID:	11-274-18					
Benzene	**ND**	1.0	EPA 8021B	11-30-23	11-30-23	
Toluene	**ND**	1.0	EPA 8021B	11-30-23	11-30-23	
Ethylbenzene	**ND**	1.0	EPA 8021B	11-30-23	11-30-23	
m,p-Xylene	**ND**	1.0	EPA 8021B	11-30-23	11-30-23	
o-Xylene	**ND**	1.0	EPA 8021B	11-30-23	11-30-23	
Gasoline	**ND**	100	NWTPH-Gx	11-30-23	11-30-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*73*	*65-122*				

Date of Report: December 7, 2023
Samples Submitted: November 29, 2023
Laboratory Reference: 2311-274
Project: 301-004

GASOLINE RANGE ORGANICS/BTEX
NWTPH-Gx/EPA 8021B
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1129W1					
Benzene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
Toluene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
Ethylbenzene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
m,p-Xylene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
o-Xylene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
Gasoline	**ND**	100	NWTPH-Gx	11-29-23	11-29-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*83*	*65-122*				
Laboratory ID:	MB1129W2					
Benzene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
Toluene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
Ethylbenzene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
m,p-Xylene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
o-Xylene	**ND**	1.0	EPA 8021B	11-29-23	11-29-23	
Gasoline	**ND**	100	NWTPH-Gx	11-29-23	11-29-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*83*	*65-122*				
Laboratory ID:	MB1130W1					
Benzene	**ND**	1.0	EPA 8021B	11-30-23	11-30-23	
Toluene	**ND**	1.0	EPA 8021B	11-30-23	11-30-23	
Ethylbenzene	**ND**	1.0	EPA 8021B	11-30-23	11-30-23	
m,p-Xylene	**ND**	1.0	EPA 8021B	11-30-23	11-30-23	
o-Xylene	**ND**	1.0	EPA 8021B	11-30-23	11-30-23	
Gasoline	**ND**	100	NWTPH-Gx	11-30-23	11-30-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*71*	*65-122*				
Laboratory ID:	MB1201W1					
Benzene	**ND**	1.0	EPA 8021B	12-1-23	12-1-23	
Toluene	**ND**	1.0	EPA 8021B	12-1-23	12-1-23	
Ethylbenzene	**ND**	1.0	EPA 8021B	12-1-23	12-1-23	
m,p-Xylene	**ND**	1.0	EPA 8021B	12-1-23	12-1-23	
o-Xylene	**ND**	1.0	EPA 8021B	12-1-23	12-1-23	
Gasoline	**ND**	100	NWTPH-Gx	12-1-23	12-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*84*	*65-122*				

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Project: 301-004

GASOLINE RANGE ORGANICS/BTEX
NWTPH-Gx/EPA 8021B
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	11-274-01										
	ORIG	DUP									
Benzene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Toluene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Ethylbenzene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
m,p-Xylene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
o-Xylene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*83*	*80*	*65-122*			
Laboratory ID:	11-274-02										
	ORIG	DUP									
Benzene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Toluene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Ethylbenzene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
m,p-Xylene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
o-Xylene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*77*	*79*	*65-122*			
SPIKE BLANKS											
Laboratory ID:	SB1129W1										
	SB	SBD	SB	SBD		SB	SBD				
Benzene	**55.3**	**57.3**	50.0	50.0		**111**	**115**	81-118	4	12	
Toluene	**54.9**	**56.8**	50.0	50.0		**110**	**114**	82-119	3	12	
Ethylbenzene	**54.5**	**56.6**	50.0	50.0		**109**	**113**	81-118	4	12	
m,p-Xylene	**54.7**	**56.7**	50.0	50.0		**109**	**113**	82-118	4	12	
o-Xylene	**54.8**	**56.6**	50.0	50.0		**110**	**113**	81-119	3	11	
Surrogate:											
Fluorobenzene						*77*	*75*	*65-122*			

Date of Report: December 7, 2023
Samples Submitted: November 29, 2023
Laboratory Reference: 2311-274
Project: 301-004

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**CMW-13-112723**					
Laboratory ID:	11-274-01					
Diesel Range Organics	**0.68**	0.15	NWTPH-Dx	11-30-23	11-30-23	
Lube Oil Range Organics	**0.37**	0.20	NWTPH-Dx	11-30-23	11-30-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*73*	*50-150*				
Client ID:	**CMW-13-112723**					
Laboratory ID:	11-274-01					
Diesel Range Organics	**ND**	0.20	NWTPH-Dx	11-30-23	11-30-23	X2
Lube Oil Range Organics	**ND**	0.20	NWTPH-Dx	11-30-23	11-30-23	X2
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*84*	*50-150*				
Client ID:	**HMW-9-112723**					
Laboratory ID:	11-274-02					
Diesel Range Organics	**0.35**	0.15	NWTPH-Dx	11-30-23	12-1-23	
Lube Oil Range Organics	**0.50**	0.20	NWTPH-Dx	11-30-23	12-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*72*	*50-150*				
Client ID:	**HMW-9-112723**					
Laboratory ID:	11-274-02					
Diesel Range Organics	**ND**	0.20	NWTPH-Dx	11-30-23	11-30-23	X2
Lube Oil Range Organics	**ND**	0.20	NWTPH-Dx	11-30-23	11-30-23	X2
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*103*	*50-150*				
Client ID:	**CMW-12-112723**					
Laboratory ID:	11-274-03					
Diesel Range Organics	**0.29**	0.15	NWTPH-Dx	11-30-23	11-30-23	
Lube Oil Range Organics	**0.29**	0.21	NWTPH-Dx	11-30-23	11-30-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*74*	*50-150*				
Client ID:	**CMW-12-112723**					
Laboratory ID:	11-274-03					
Diesel Range Organics	**ND**	0.21	NWTPH-Dx	11-30-23	11-30-23	X2
Lube Oil Range Organics	**ND**	0.21	NWTPH-Dx	11-30-23	11-30-23	X2
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*89*	*50-150*				

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DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**QA/QC-1-112723**					
Laboratory ID:	11-274-04					
Diesel Range Organics	**0.32**	0.15	NWTPH-Dx	11-30-23	11-30-23	
Lube Oil Range Organics	**0.36**	0.20	NWTPH-Dx	11-30-23	11-30-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*72*	*50-150*				
Client ID:	**QA/QC-1-112723**					
Laboratory ID:	11-274-04					
Diesel Range Organics	**ND**	0.20	NWTPH-Dx	11-30-23	11-30-23	X2
Lube Oil Range Organics	**ND**	0.20	NWTPH-Dx	11-30-23	11-30-23	X2
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*92*	*50-150*				
Client ID:	**CMW-30-112723**					
Laboratory ID:	11-274-05					
Diesel Range Organics	**0.18**	0.15	NWTPH-Dx	11-30-23	12-1-23	
Lube Oil Range Organics	**0.26**	0.20	NWTPH-Dx	11-30-23	12-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*76*	*50-150*				
Client ID:	**CMW-30-112723**					
Laboratory ID:	11-274-05					
Diesel Range Organics	**ND**	0.20	NWTPH-Dx	11-30-23	11-30-23	X2
Lube Oil Range Organics	**ND**	0.20	NWTPH-Dx	11-30-23	11-30-23	X2
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*98*	*50-150*				
Client ID:	**CMW-29-112723**					
Laboratory ID:	11-274-06					
Diesel Range Organics	**ND**	0.15	NWTPH-Dx	11-30-23	12-1-23	
Lube Oil Range Organics	**ND**	0.20	NWTPH-Dx	11-30-23	12-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*79*	*50-150*				
Client ID:	**CMW-29-112723**					
Laboratory ID:	11-274-06					
Diesel Range Organics	**ND**	0.20	NWTPH-Dx	11-30-23	11-30-23	X2
Lube Oil Range Organics	**ND**	0.20	NWTPH-Dx	11-30-23	11-30-23	X2
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*101*	*50-150*				

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DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HMW-13-112723**					
Laboratory ID:	11-274-07					
Diesel Range Organics	**0.42**	0.15	NWTPH-Dx	11-30-23	12-6-23	
Lube Oil Range Organics	**0.21**	0.20	NWTPH-Dx	11-30-23	12-6-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*104*	*50-150*				
Client ID:	**HMW-13-112723**					
Laboratory ID:	11-274-07					
Diesel Range Organics	**ND**	0.20	NWTPH-Dx	11-30-23	12-6-23	X2
Lube Oil Range Organics	**ND**	0.20	NWTPH-Dx	11-30-23	12-6-23	X2
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*117*	*50-150*				
Client ID:	**CMW-26-112723**					
Laboratory ID:	11-274-08					
Diesel Range Organics	**ND**	0.15	NWTPH-Dx	11-30-23	11-30-23	
Lube Oil Range Organics	**ND**	0.20	NWTPH-Dx	11-30-23	11-30-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*71*	*50-150*				
Client ID:	**CMW-26-112723**					
Laboratory ID:	11-274-08					
Diesel Range Organics	**ND**	0.20	NWTPH-Dx	11-30-23	11-30-23	X2
Lube Oil Range Organics	**ND**	0.20	NWTPH-Dx	11-30-23	11-30-23	X2
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*96*	*50-150*				
Client ID:	**CMW-28-112723**					
Laboratory ID:	11-274-09					
Diesel Range Organics	**0.61**	0.15	NWTPH-Dx	11-30-23	11-30-23	
Lube Oil Range Organics	**0.90**	0.20	NWTPH-Dx	11-30-23	11-30-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*81*	*50-150*				
Client ID:	**CMW-28-112723**					
Laboratory ID:	11-274-09					
Diesel Range Organics	**ND**	0.20	NWTPH-Dx	11-30-23	11-30-23	X2
Lube Oil Range Organics	**ND**	0.20	NWTPH-Dx	11-30-23	11-30-23	X2
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*99*	*50-150*				

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DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**CMW-25-112823**					
Laboratory ID:	11-274-10					
Diesel Range Organics	**ND**	0.15	NWTPH-Dx	11-30-23	11-30-23	
Lube Oil Range Organics	**ND**	0.20	NWTPH-Dx	11-30-23	11-30-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*92*	*50-150*				
Client ID:	**CMW-25-112823**					
Laboratory ID:	11-274-10					
Diesel Range Organics	**ND**	0.20	NWTPH-Dx	11-30-23	11-30-23	X2
Lube Oil Range Organics	**ND**	0.20	NWTPH-Dx	11-30-23	11-30-23	X2
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*102*	*50-150*				
Client ID:	**CMW-31-112823**					
Laboratory ID:	11-274-11					
Diesel Range Organics	**0.18**	0.15	NWTPH-Dx	11-30-23	12-1-23	
Lube Oil Range Organics	**0.23**	0.21	NWTPH-Dx	11-30-23	12-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*74*	*50-150*				
Client ID:	**CMW-31-112823**					
Laboratory ID:	11-274-11					
Diesel Range Organics	**ND**	0.21	NWTPH-Dx	11-30-23	11-30-23	X2
Lube Oil Range Organics	**ND**	0.21	NWTPH-Dx	11-30-23	11-30-23	X2
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*73*	*50-150*				
Client ID:	**CMW-8-112823**					
Laboratory ID:	11-274-12					
Diesel Range Organics	**0.28**	0.15	NWTPH-Dx	11-30-23	12-1-23	
Lube Oil Range Organics	**0.35**	0.20	NWTPH-Dx	11-30-23	12-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*76*	*50-150*				
Client ID:	**CMW-8-112823**					
Laboratory ID:	11-274-12					
Diesel Range Organics	**ND**	0.20	NWTPH-Dx	11-30-23	11-30-23	X2
Lube Oil Range Organics	**ND**	0.20	NWTPH-Dx	11-30-23	11-30-23	X2
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*84*	*50-150*				

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DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**CMW-10-112823**					
Laboratory ID:	11-274-13					
Diesel Range Organics	**1.6**	0.15	NWTPH-Dx	11-30-23	12-1-23	
Lube Oil Range Organics	**0.58**	0.20	NWTPH-Dx	11-30-23	12-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*103*	*50-150*				
Client ID:	**CMW-10-112823**					
Laboratory ID:	11-274-13					
Diesel Range Organics	**0.27**	0.20	NWTPH-Dx	11-30-23	12-1-23	X2
Lube Oil Range Organics	**ND**	0.20	NWTPH-Dx	11-30-23	12-1-23	X2
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*122*	*50-150*				
Client ID:	**CMW-27-112823**					
Laboratory ID:	11-274-14					
Diesel Range Organics	**1.9**	0.15	NWTPH-Dx	11-30-23	12-1-23	M
Lube Oil Range Organics	**0.65**	0.20	NWTPH-Dx	11-30-23	12-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*82*	*50-150*				
Client ID:	**CMW-27-112823**					
Laboratory ID:	11-274-14					
Diesel Range Organics	**0.51**	0.20	NWTPH-Dx	11-30-23	12-1-23	M,X2
Lube Oil Range Organics	**ND**	0.20	NWTPH-Dx	11-30-23	12-1-23	X2
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*89*	*50-150*				
Client ID:	**QA/QC-2-112823**					
Laboratory ID:	11-274-15					
Diesel Range Organics	**2.7**	0.15	NWTPH-Dx	11-30-23	12-1-23	M
Lube Oil Range Organics	**0.62**	0.20	NWTPH-Dx	11-30-23	12-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*111*	*50-150*				
Client ID:	**QA/QC-2-112823**					
Laboratory ID:	11-274-15					
Diesel Range Organics	**0.75**	0.20	NWTPH-Dx	11-30-23	12-1-23	M,X2
Lube Oil Range Organics	**ND**	0.20	NWTPH-Dx	11-30-23	12-1-23	X2
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*116*	*50-150*				

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DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HMW-11-112823**					
Laboratory ID:	11-274-16					
Diesel Range Organics	**4.2**	0.15	NWTPH-Dx	11-30-23	12-1-23	M
Lube Oil Range Organics	**1.1**	0.20	NWTPH-Dx	11-30-23	12-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*115*	*50-150*				
Client ID:	**HMW-11-112823**					
Laboratory ID:	11-274-16					
Diesel Range Organics	**0.50**	0.20	NWTPH-Dx	11-30-23	12-1-23	M,X2
Lube Oil Range Organics	**ND**	0.20	NWTPH-Dx	11-30-23	12-1-23	X2
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*122*	*50-150*				
Client ID:	**HMW-10-112823**					
Laboratory ID:	11-274-17					
Diesel Range Organics	**0.49**	0.15	NWTPH-Dx	11-30-23	12-1-23	
Lube Oil Range Organics	**0.41**	0.20	NWTPH-Dx	11-30-23	12-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*79*	*50-150*				
Client ID:	**HMW-10-112823**					
Laboratory ID:	11-274-17					
Diesel Range Organics	**ND**	0.20	NWTPH-Dx	11-30-23	11-30-23	X2
Lube Oil Range Organics	**ND**	0.20	NWTPH-Dx	11-30-23	11-30-23	X2
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*99*	*50-150*				
Client ID:	**CMW-2-112823**					
Laboratory ID:	11-274-18					
Diesel Range Organics	**1.2**	0.15	NWTPH-Dx	11-30-23	12-1-23	
Lube Oil Range Organics	**1.5**	0.20	NWTPH-Dx	11-30-23	12-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*93*	*50-150*				
Client ID:	**CMW-2-112823**					
Laboratory ID:	11-274-18					
Diesel Range Organics	**ND**	0.20	NWTPH-Dx	11-30-23	11-30-23	X2
Lube Oil Range Organics	**ND**	0.20	NWTPH-Dx	11-30-23	11-30-23	X2
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*127*	*50-150*				

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DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx
QUALITY CONTROL

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1130W1					
Diesel Range Organics	**ND**	0.080	NWTPH-Dx	11-30-23	11-30-23	
Lube Oil Range Organics	**ND**	0.16	NWTPH-Dx	11-30-23	11-30-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*77*	*50-150*				
Laboratory ID:	MB1130W1					
Diesel Range Organics	**ND**	0.080	NWTPH-Dx	11-30-23	11-30-23	X2
Lube Oil Range Organics	**ND**	0.16	NWTPH-Dx	11-30-23	11-30-23	X2
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*95*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	11-274-01										
	ORIG	DUP									
Diesel Range Organics	**0.681**	**0.636**	NA	NA		NA		NA	7	40	
Lube Oil Range Organics	**0.373**	**0.401**	NA	NA		NA		NA	7	40	
Surrogate:											
o-Terphenyl						*73*	*77*	*50-150*			
Laboratory ID:	11-274-01										
	ORIG	DUP									
Diesel Range	**ND**	**ND**	NA	NA		NA		NA	NA	40	X2
Lube Oil Range	**ND**	**ND**	NA	NA		NA		NA	NA	40	X2
Surrogate:											
o-Terphenyl						*84*	*93*	*50-150*			

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Farallon Consulting
Project Number: 301-004
Project Name: Cenex Auburn
Project Manager: Tracey Mulhern
Sampled by: Michael Ysaguirre/Angie Osman

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☒ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 11-274

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021B 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up ☒) with and without SG	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664					% Moisture
1	CMW-13-112723	11/27/23	1322	H_2O	5		X		X																		
2	HMW-9-112723		1418				X		X																		
3	CMW-12-112723		1515				X		X																		
4	QA/QC-1-112723		1520				X		X																		
5	CMW-30-112723		1125				X		X																		
6	CMW-29-112723		1224				X		X																		
7	HMW-13-112723		1346				X		X																		
8	CMW-26-112723		1437				X		X																		
9	CMW-28-112723		1530				X		X																		
10	CMW-25-112823	11/28/23	1000				X		X																		

	Signature	Company	Date	Time
Relinquished		FCN	11/29/23	0905
Received	Van	SPL	11/29/23	1040
Relinquished	Van	SPL	11/29/23	1110
Received	Nichole Bolin	OSE	11/29/23	1110
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
DRO/ORO by NWTPH-Dx by Silica gel cleanup. Do not use acid as part of Silica gel cleanup procedure.

Data Package: Standard ☐ Level III ☐ Level IV ☐
Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Farallon Consulting
Project Number: 301-004
Project Name: Cenex Auburn
Project Manager: Tracey Mulhern
Sampled by: Michael Ysaguirre / Angie Osman

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☐ 2 Days
- ☐ 3 Days
- ☒ Standard (7 Days)
- ☐ _____ (other)

Laboratory Number: 11-274

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021B or 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up ☒) with & without SG	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664					% Moisture
11	CMW-31-112823	11/28/23	1155	H_2O	5		X		X																		
12	CMW-8-112823	"	1405	"	"		X		X																		
13	CMW-10-112823	"	1055	"	"		X		X																		
14	CMW-27-112823	"	1146	"	"		X		X																		
15	QA/QC-2-112823	"	1210	"	"		X		X																		
16	HMW-11-112823	"	1415	"	"		X		X																		
17	HMW-10-112823	"	1310	"	"		X		X																		
18	CMW-2-112823	"	0957	"	"		X		X																		

	Signature	Company	Date	Time
Relinquished	[signature]	FLN	11/29/23	0905
Received	[signature]	Spkg	11/29/23	1040
Relinquished	[signature]	Spkg	11/29/23	1110
Received	[signature]	OSE	11/29/23	1110
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

See page 1

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

October 13, 2023

Javan Ruark, Project Manager
Farallon Consulting, LLC
975 5th Avenue Northwest
Issaquah, WA 98027

Dear Mr Ruark:

Included are the results from the testing of material submitted on October 2, 2023 from the Cenex Auburn 301-004, F&BI 310003 project. There are 5 pages included in this report.

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

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Farallon Data, Lisa Thompson
FLN1013R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on October 2, 2023 by Friedman & Bruya, Inc. from the Farallon Consulting, LLC Cenex Auburn 301-004, F&BI 310003 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Farallon Consulting, LLC
310003 -01	OVERALL-092923

The TO-15 gasoline range concentrations were quantified using a single point calibration at 80 ppbv.

All quality control requirements were acceptable.

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	OVERALL-092923	Client:	Farallon Consulting, LLC
Date Received:	10/02/23	Project:	Cenex Auburn 301-004
Date Collected:	09/29/23	Lab ID:	310003-01 1/8.6
Date Analyzed:	10/07/23	Data File:	100635.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	113	70	130

Compounds:	Concentration ug/m3	ppbv
Benzene	<2.7	<0.86
Toluene	<65	<17
Ethylbenzene	<3.7	<0.86
m,p-Xylene	<7.5	<1.7
o-Xylene	<3.7	<0.86
Gasoline Range Organics	40,000	9,900

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	Method Blank	Client:	Farallon Consulting, LLC
Date Received:	Not Applicable	Project:	Cenex Auburn 301-004
Date Collected:	Not Applicable	Lab ID:	03-2319 MB
Date Analyzed:	10/06/23	Data File:	100612.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	85	70	130

Compounds:	Concentration ug/m3	ppbv
Benzene	<0.32	<0.1
Toluene	<7.5	<2
Ethylbenzene	<0.43	<0.1
m,p-Xylene	<0.87	<0.2
o-Xylene	<0.43	<0.1
Gasoline Range Organics	<330	<80

Date of Report: 10/13/23
Date Received: 10/02/23
Project: Cenex Auburn 301-004, F&BI 310003

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES FOR VOLATILES BY METHOD TO-15

Laboratory Code: 310114-01 1/4.9 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
Benzene	ug/m3	<1.6	<1.6	nm
Toluene	ug/m3	<37	<37	nm
Ethylbenzene	ug/m3	12	12	0
m,p-Xylene	ug/m3	6.4	6.1	5
o-Xylene	ug/m3	2.4	2.1	13

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	ug/m3	43	96	70-130
Toluene	ug/m3	51	106	70-130
Ethylbenzene	ug/m3	59	99	70-130
m,p-Xylene	ug/m3	120	104	70-130
o-Xylene	ug/m3	59	110	70-130

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht – The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

k – The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

310003 Lisa Thompson

SAMPLE CHAIN OF CUSTODY 10/02/23

Report To Sawan Kwark

Company Farallon

Address

City, State, ZIP

Phone Email LThompson, SKwark@FarallonConsulting.com

SAMPLERS (signature)

PROJECT NAME & ADDRESS: Cenex Auburn

PO #: 301-004

NOTES: *GRO & BTEX

INVOICE TO: AP

Page # 1 of 1

TURNAROUND TIME: ~~Standard~~ ~~RUSH~~

Rush charges authorized by:

SAMPLE DISPOSAL
Default: Clean following final report delivery
Hold (Fee may apply):

SAMPLE INFORMATION										ANALYSIS REQUESTED						
Sample Name	Lab ID	Canister ID	Flow Cont. ID	Reporting Level: IA=Indoor Air SG=Soil Gas (Circle One)	Date Sampled	Initial Vac. ("Hg)	Field Initial Time	Final Vac. ("Hg)	Field Final Time	TO15 Full Scan	TO15 BTEXN*	TO15 cVOCs	APH	Helium		Notes
OVERALL-092923	01	3255	12	IA / (SG)	9/29/23	28.3	1122	7	1130		X					
				IA / SG												
				IA / SG												
				IA / SG					Samples received at 21 °C							
				IA / SG							°C	Samples received at				
				IA / SG												
				IA / SG												
				IA / SG												

Friedman & Bruya, Inc.
5500 4th Avenue South
Seattle, WA 98108
Ph. (206) 285-8282
Fax (206) 283-5044

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Madilin Lee	Farallon	10/2/23	8:04
Received by:		ANHPHAN	F&B	~~09/2~~	08:04
Relinquished by:				10/2/23	
Received by:					

FORMS\COC\COCTO-15.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

November 21, 2023

Lisa Thompson, Project Manager
Farallon Consulting, LLC
975 5th Avenue Northwest
Issaquah, WA 98027

Dear Ms Thompson:

Included are the results from the testing of material submitted on November 14, 2023 from the Cenex Auburn 301-004, F&BI 311229 project. There are 5 pages included in this report.

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

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Farallon Data, Javan Ruark
FLN1121R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on November 14, 2023 by Friedman & Bruya, Inc. from the Farallon Consulting, LLC Cenex Auburn 301-004, F&BI 311229 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Farallon Consulting, LLC
311229 -01	Overall-111423

The TO-15 gasoline range concentrations were quantified using a single point calibration at 80 ppbv.

All quality control requirements were acceptable.

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	Overall-111423	Client:	Farallon Consulting, LLC
Date Received:	11/14/23	Project:	Cenex Auburn 301-004
Date Collected:	11/14/23	Lab ID:	311229-01 1/8.4
Date Analyzed:	11/16/23	Data File:	111526.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	104	70	130

Compounds:	Concentration ug/m3	ppbv
Benzene	<2.7	<0.84
Toluene	<63	<17
Ethylbenzene	<3.6	<0.84
m,p-Xylene	<7.3	<1.7
o-Xylene	<3.6	<0.84
Gasoline Range Organics	18,000	3,900

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	Method Blank	Client:	Farallon Consulting, LLC
Date Received:	Not Applicable	Project:	Cenex Auburn 301-004
Date Collected:	Not Applicable	Lab ID:	03-2647 MB
Date Analyzed:	11/15/23	Data File:	111512.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	95	70	130

Compounds:	Concentration ug/m3	ppbv
Benzene	<0.32	<0.1
Toluene	<7.5	<2
Ethylbenzene	<0.43	<0.1
m,p-Xylene	<0.87	<0.2
o-Xylene	<0.43	<0.1
Gasoline Range Organics	<330	<80

Date of Report: 11/21/23
Date Received: 11/14/23
Project: Cenex Auburn 301-004, F&BI 311229

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES FOR VOLATILES BY METHOD TO-15

Laboratory Code: 311213-01 1/5.6 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
Benzene	ug/m3	<1.8	<1.8	nm
Toluene	ug/m3	<42	<42	nm
Ethylbenzene	ug/m3	<2.4	<2.4	nm
m,p-Xylene	ug/m3	<4.9	<4.9	nm
o-Xylene	ug/m3	<2.4	<2.4	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	ug/m3	43	101	70-130
Toluene	ug/m3	51	107	70-130
Ethylbenzene	ug/m3	59	99	70-130
m,p-Xylene	ug/m3	120	103	70-130
o-Xylene	ug/m3	59	107	70-130

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht – The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

k – The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

311229
Lisa Thompson

SAMPLE CHAIN OF CUSTODY

11/14/23

Report To Javan Ruark
Company Farallon
Address
City, State, ZIP
Phone Email LThompson, JRuark @FarallonConsulting.com

SAMPLERS (signature) Madelin Lee

PROJECT NAME & ADDRESS: Cenex Auburn

PO # 301-004

NOTES: * GRO & BTEX

INVOICE TO: FAP

Page # 1 of 1

TURNAROUND TIME
☐ Standard
☐ RUSH
Rush charges authorized by:

SAMPLE DISPOSAL
Default: Clean following final report delivery
☐ Hold (Fee may apply):

SAMPLE INFORMATION / ANALYSIS REQUESTED

Sample Name	Lab ID	Canister ID	Flow Cont. ID	Reporting Level: IA=Indoor Air SG=Soil Gas (Circle One)	Date Sampled	Initial Vac. ("Hg)	Field Initial Time	Final Vac. ("Hg)	Field Final Time	TO15 Full Scan	TO15 BTEXN *	TO15 cVOCs	APH	Helium		Notes
OVERALL-111423	01	2302	299	IA / (SG)	11/14/23	30+	1054	-14	1058		X					
				IA / SG												
				IA / SG												
				IA / SG												
				IA / SG												
				IA / SG												
				IA / SG												
				IA / SG												
				IA / SG												

Samples received at 19

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: Madelin Lee	Madelin Lee	Farallon	11/14/23	1153
Received by:	Erica Young	FB	11/14/23	1153
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

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