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April 2, 2025

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TB TS/RELP LLC
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San Antonio, Texas

Mr. Frank Jakus
Ponte Gadea Seattle LLC
270 Biscayne Boulevard Way, Suite 201
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SUBJECT: 2024 GROUNDWATER MONITORING REPORT
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North, Seattle, Washington
Cleanup Site ID No. 11690
Project Number: 0731-004-08

Dear Messrs. Owen and Jakus:

SoundEarth Strategies, Inc. (SoundEarth) has prepared this report to present the results of groundwater monitoring events that were conducted at the Troy Laundry Seattle Site (Site) in 2024.

The Site encompasses the property located at 300 Boren Avenue North and 399 Fairview Avenue North in Seattle, Washington (collectively, the Property), as well as the adjacent rights-of-way (ROWs) located north of the Property (Harrison Street), west of the Property (Boren Avenue North), and south of the Property (Thomas Street). The Site also extends onto the adjacent property to the south, known as the Seattle Times Site, located at 1120 John Street (Cleanup Site ID 14494). The Site location is shown in Figure 1.

The groundwater monitoring events summarized below were conducted, and this report has been prepared, pursuant to Exhibit A (Scope of Work and Schedule) to the Prospective Purchaser Consent Decree (PPCD) No. 19-2-07344-6 SEA entered into by and between the Washington State Department of Ecology (Ecology) and Ponte Gadea Seattle LLC. The report summarizes compliance groundwater monitoring work completed during the calendar year 2024, presents the results of groundwater elevation measurements and laboratory analytical results, and provides statistical analysis of chlorinated volatile organic compound (CVOC) concentrations in the groundwater over time.

Per Exhibit A of the PPCD, a Statistical Trend Analysis Report must be submitted in the first quarter of 2025 following receipt of 2024 groundwater monitoring and sampling data. This 2024 Groundwater Monitoring Report incorporates the statistical trend analysis in lieu of a separate report.

2024 GROUNDWATER MONITORING EVENTS

The 2024 groundwater monitoring events were conducted during the second and fourth quarters (June and December, respectively) of 2024 to assess the groundwater quality, flow direction, and gradient of groundwater beneath the Site and to evaluate the effectiveness of the groundwater treatment program that has been implemented as part of SoundEarth's Interim Action Plan dated August 21, 2013, which was approved by Ecology on October 10, 2013 (SoundEarth 2013).

The 2024 monitoring events included collecting groundwater data from all monitoring wells in the compliance well network as set forth in Exhibit A of the PPCD, as well as additional Site wells added to monitoring well network after the PPCD was entered. The current monitoring well network at the Site includes the following monitoring wells:

- On-Property Monitoring and Injection Wells: MW17 through MW25, IW04, IW06, IW50, IW61, and IW91
- Harrison Street ROW Monitoring Wells: MW01, MW26, MW32¹, and MW33¹
- Boren Avenue North ROW Monitoring Wells: MW04, MW07, MW13, MW27, and MW31¹
- Thomas Street ROW Monitoring Wells: MW28
- Terry Avenue North ROW Monitoring Well: MW34²
- Former Seattle Times Site Monitoring Wells: MW29R³ and MW35³

Current and historical groundwater elevations and sample analytical results are presented in Tables 1 through 3.

FIELD ACTIVITIES

From June 24 through 27 and December 16 through 20, 2024, SoundEarth performed groundwater monitoring and sampling at monitoring wells MW04, MW07, MW13, MW18, MW19, MW21 through MW28, MW31 (Q2 only), MW29R, and MW35 and injection wells IW04, IW06 (Q2 only), IW50, and IW61.

Upon arrival at the Site and prior to groundwater sampling, SoundEarth personnel opened all monitoring wells in the compliance well network to collect groundwater depth measurements. The groundwater level in each of the monitoring wells was permitted to equilibrate with atmospheric pressure for a minimum of 1

¹Monitoring wells MW31 through MW33 were installed in September 2019 as part of the supplemental remedial investigation, as described in SoundEarth's *Supplemental Remedial Investigation Work Plan, Troy Laundry Site, 300 Boren Avenue North and 399 Fairview Avenue North, Seattle, Washington, Ecology Facility ID: 19135499* dated March 20, 2019 (SoundEarth 2019). These wells are not sampled under the PPCD but became part of the Site monitoring well network, and results were presented in connection with the progress reports to ensure that all data associated with the Site are readily available to Ecology.

²Monitoring well MW34 is a replacement for monitoring well MW15, which was damaged during construction activities and was replaced in October 2021. This monitoring well is not sampled under the PPCD, but it is part of the Site monitoring well network, and results will be presented in connection with the progress reports to ensure that all data associated with the Site are readily available to Ecology.

³Groundwater monitoring wells MW29R and MW35 were installed on the former Seattle Times Property in April 2023.

hour before groundwater level measurements were collected. Groundwater levels were measured relative to the top of well casing to an accuracy of 0.01 feet using an electronic water level meter.

Groundwater samples were collected from wells in the groundwater monitoring network in accordance with the US Environmental Protection Agency (EPA) "Low-Flow (Minimal Drawdown) Groundwater Sampling Procedures" dated April 1996 (Puls and Barcelona 1996). Purging and sampling of each monitoring well was performed using a bladder pump (monitoring wells MW04, MW07, MW13, MW26, MW27, MW28, MW29R, MW31 [Q2 only], and MW35) or a peristaltic pump (monitoring wells MW18, MW19, MW21, MW22, MW23, MW24, and MW25 and injection wells IW04, IW06 [Q2 only], IW50, and IW61) with dedicated polyethylene tubing at a maximum flow rate of 250 milliliters per minute. The tubing intake was placed approximately 2 to 3 feet below the surface of the groundwater or mid-screen in each sampled monitoring well. During purging, water quality was monitored using a YSI-brand water quality meter equipped with a flow-through cell. The water quality parameters that were monitored and recorded included temperature, pH, specific conductance, dissolved oxygen, turbidity, and oxidation-reduction potential. Each monitoring well was purged until, at a minimum, the subset of pH, specific conductance, and dissolved oxygen or turbidity had stabilized over at least three successive readings. A field duplicate sample was collected from monitoring well MW25 during the second and fourth quarters for quality assurance/quality control (QA/QC) purposes.

Following purging, groundwater samples were collected from the pump outlet tubing located upstream of the flow-through cell and placed directly into clean, laboratory-prepared sample containers. Each container was labeled with a unique sample identification number, placed on ice in a cooler, and transported to one or more of the following testing laboratories under standard chain-of-custody protocols for laboratory analysis: Friedman & Bruya, Inc. of Seattle, Washington; Fremont Analytical of Seattle, Washington; or SiREM of Knoxville, Tennessee.

The groundwater samples were submitted for analysis of one or more of the following:

- CVOCs, including tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), trans-1,2-dichloroethene (trans-1,2-DCE), and vinyl chloride (VC) by EPA Method 8260D
- Gasoline-range petroleum hydrocarbons (GRPH) by Northwest Total Petroleum Hydrocarbon (NWTPH) Method NWTPH-Gx
- Diesel-range petroleum hydrocarbons (DRPH) and oil-range petroleum hydrocarbons (ORPH) by Method NWTPH-Dx

In addition, groundwater samples collected from monitoring wells MW04, MW07, MW18, MW19, MW21 through MW26, and MW28 and injection wells IW04, IW50, and IW61 were analyzed for one or more of the following natural attenuation parameters:

- Methane, ethane, and ethene by Method RSK-175
- Sulfate and nitrate by EPA Method 300.0
- Total alkalinity by EPA Method 310.2
- Total iron and manganese by EPA Method 200.8
- Ferrous iron by Method SM3500-Fe B

- Total organic carbon by EPA Method SM 5310C
- Volatile fatty acids (VFAs) by EPA Methods 300.0 and 300.0 Modified

All groundwater sampling data, including results of natural attenuation parameters, will be uploaded to and available from Ecology's Environmental Information Management system database.

Purge water generated during the monitoring events was placed in an appropriately labeled 55-gallon steel drum and temporarily stored on the Property pending receipt of analytical data and proper disposal.

GROUNDWATER CLEANUP AND PROPOSED REMEDIATION LEVELS

Groundwater cleanup levels and proposed remediation levels for the Site are presented in Table A:

Table A
Groundwater Remediation Levels and Cleanup Levels for the Site

CVOC	Commercial Worker Groundwater Remediation Level at the Property (µg/L)⁽¹⁾	Roadway Excavation Worker Groundwater Remediation Level in ROWs (µg/L)⁽¹⁾	Groundwater Cleanup Level (µg/L)
PCE	120	760	5 ⁽²⁾
TCE	12	40	5 ⁽²⁾
cis-1,2-DCE	1,600	10,000	16 ⁽³⁾
VC	1.6	9.9	0.2 ⁽²⁾

µg/L = micrograms per liter

CLARC = Cleanup Levels and Risk Calculation

MTCA = Washington State Model Toxics Control Act

WAC = Washington Administrative Code

⁽¹⁾ Table values in CLARC, Ecology's Guidance for Evaluating Vapor Intrusion in Washington State: Investigation and Remedial Action dated 2009, revised 2022 (Ecology 2009), and Ecology's South Lake Union Group Memorandum (Ecology 2022).

⁽²⁾ MTCA Method A, WAC 173-340-720 and table values in CLARC.

⁽³⁾ MTCA Method B, WAC 173-340-720 and table values in CLARC.

GROUNDWATER MONITORING AND SAMPLING RESULTS

Groundwater levels and analytical results from the groundwater monitoring and supplemental sampling events are summarized below and presented in Tables 1 through 6. Groundwater elevation contour maps for the second and fourth quarter 2024 sampling events are presented on Figures 2 and 3. Groundwater analytical results for CVOCs are presented on Figure 4.

Second Quarter 2024

Groundwater elevations measured in June 2024 ranged from 15.26 feet North American Vertical Datum of 1988 (NAVD88) at monitoring well MW35 to 17.89 feet NAVD88 at monitoring well MW34. Groundwater elevations were contoured using the water level measurements collected on June 24, 2024 (Figure 2; Table 1). The groundwater contours for the second quarter 2024 monitoring event indicated that groundwater at the Site flowed generally to the southeast with a hydraulic gradient of 0.0058 feet per foot.

Laboratory analytical results from the second quarter 2024 monitoring event were compared to groundwater cleanup and remediation levels for groundwater presented in Table A, as applicable, and are summarized below (Figures 5 and 6; Tables 2 and 3):

- PCE was detected at concentrations less than remediation levels but exceeding the groundwater cleanup level in the groundwater samples collected from on-Property injection well IW50 and monitoring well MW29R, located on the Seattle Times Site. PCE concentrations detected in the remaining groundwater samples were below the laboratory reporting limit and/or groundwater cleanup and remediation levels.
- TCE was detected at concentrations exceeding the groundwater cleanup level in groundwater samples collected from on-Property monitoring well MW25; monitoring wells MW04 and MW27, located in the Boren Avenue North ROW; monitoring well MW26, located in the Harrison Street ROW; and monitoring well MW29R, located on the former Seattle Times Site. TCE was detected at concentrations exceeding the commercial worker groundwater remediation level in the groundwater sample collected from monitoring well MW27. TCE concentrations detected in the remaining groundwater samples were below the laboratory reporting limit and/or groundwater cleanup level and remediation levels.
- Cis-1,2-DCE was detected at concentrations less than remediation levels but exceeding the groundwater cleanup level in groundwater samples collected from on-Property monitoring well MW22; on-Property injection wells IW50 and IW61; and monitoring well MW28, located in the Thomas Street ROW. Cis-1,2-DCE concentrations detected in the remaining groundwater samples were below the laboratory reporting limit and/or groundwater cleanup level and remediation levels.
- VC was detected at concentrations exceeding the groundwater cleanup level in groundwater samples collected from on-Property monitoring wells MW18, MW19, MW21, MW22, MW23, MW24, and MW25 and injection wells IW50 and IW61. VC was detected at concentrations exceeding the commercial worker groundwater remediation level in groundwater samples collected from on-Property monitoring wells MW18, MW19, MW21, MW22, MW23, and MW25 and on-Property injection wells IW50 and IW61. VC concentrations detected in the remaining groundwater samples were below the laboratory reporting limit and/or groundwater cleanup and remediation levels.
- Trans-1,2-DCE was not detected at concentrations above the laboratory reporting limit in the groundwater samples collected from all sampled wells.
- DRPH and/or ORPH were detected at concentrations exceeding groundwater cleanup levels in groundwater samples collected from on-Property monitoring wells MW21 and MW22. These results were flagged by the laboratory as having a chromatographic pattern that did not match the fuel standard used for quantification. This finding was due to the presence of EOS PRO solution (a food-grade oil-water emulsion) in the samples, which originated from the April and May 2016 injection event. The reported concentrations are not considered reflective of actual groundwater conditions at the Property. DRPH and ORPH were detected at concentrations below the laboratory reporting limit and/or groundwater cleanup level in groundwater samples collected from monitoring wells MW13 and MW28.
- GRPH was not detected at concentrations above the laboratory reporting limit in the groundwater samples collected from monitoring wells MW13, MW21, MW22, and MW28.

Fourth Quarter 2024

Groundwater elevations measured in December 2024 ranged from 15.57 feet NAVD88 at monitoring well MW35 to 17.95 feet NAVD88 at monitoring well MW34. Groundwater elevations were contoured using the water level measurements collected on December 16, 2024 (Figure 3; Table 1). The groundwater contours indicated that groundwater at the Site flowed generally to the southeast with a hydraulic gradient of 0.0048 feet per foot.

Deviations from Second Quarter 2024 Groundwater Monitoring and Sampling

On-Property injection well IW06 and monitoring well MW31, located in the Boren Avenue North ROW, were removed from the groundwater monitoring and sampling well network between the second and fourth quarter 2024 groundwater monitoring and sampling events. This request was described in SoundEarth's letter report titled Response to Ecology Comments on Feasibility Study Report, Troy Laundry Seattle Site, 300 Boren Avenue North and 399 Fairview Avenue North, Seattle, Washington, dated May 2, 2024 (SoundEarth 2024a). Ecology agreed to the proposed reduction of groundwater monitoring and sampling well network in their letter to SoundEarth titled RE: Ecology Comments on the Feasibility Study Report, Troy Laundry Seattle Site, 300 Boren Avenue North and 399 Fairview Avenue North, Seattle, Washington, dated September 23, 2024 (Ecology 2024a).

Additionally, in SoundEarth's PPCD Second Quarter 2024 Progress Memorandum, Troy Laundry Seattle Site, 300 Boren Avenue North and 399 Fairview Avenue North, Seattle, Washington, dated August 6, 2024 (SoundEarth 2024b), SoundEarth requested that Ecology no longer require analyzing groundwater samples for VFAs. In an email addressed to Thomas Cammarata from Sunny Becker, dated September 5, 2024 (Ecology 2024b), Ecology permitted SoundEarth to discontinue analyzing groundwater samples for VFAs.

Laboratory analytical results from the fourth quarter 2024 monitoring event were compared to groundwater cleanup and remediation levels for groundwater presented in Table A, as applicable, and are summarized below (Figures 7 and 8; Tables 2 and 3):

- PCE was detected at a concentration less than remediation levels but exceeding the groundwater cleanup level in the groundwater sample collected from monitoring well MW29R, located on the Seattle Times Site. PCE concentrations detected in the remaining groundwater samples were below the laboratory reporting limit and/or groundwater cleanup and remediation levels.
- TCE was detected at concentrations less than remediation levels but exceeding the groundwater cleanup level in groundwater samples collected from on-Property monitoring well MW25; monitoring wells MW04, MW07, and MW27, located in the Boren Avenue North ROW; and monitoring well MW26, located in the Harrison Street ROW. TCE was detected at concentrations exceeding the commercial worker groundwater remediation level in the groundwater sample collected from monitoring well MW26. TCE concentrations detected in the remaining groundwater samples were below the laboratory reporting limit and/or groundwater cleanup and remediation levels.
- Cis-1,2-DCE was detected at concentrations less than remediation levels but exceeding the groundwater cleanup level in the groundwater samples collected from on-Property

monitoring well MW22 and on-Property injection well IW61. Cis-1,2-DCE concentrations detected in the remaining groundwater samples were below the laboratory reporting limit and/or groundwater cleanup and remediation levels.

- VC was detected at concentrations exceeding the groundwater cleanup level in groundwater samples collected from on-Property monitoring wells MW18, MW19, MW21, MW22, MW23, MW24, and MW25 and on-Property injection wells IW50 and IW61. VC was detected at concentrations exceeding the commercial worker groundwater remediation level in groundwater samples collected from on-Property monitoring wells MW19, MW21, MW22, and MW23 and on-Property injection well IW61. VC was not detected at concentrations above the laboratory reporting limit in the remaining groundwater samples.
- Trans-1,2-DCE was not detected at concentrations above the laboratory reporting limit in groundwater samples collected from all sampled wells.
- DRPH and/or ORPH were detected at concentrations exceeding groundwater cleanup levels in groundwater samples collected from on-Property monitoring wells MW21 and MW22, and MW28, located in the Thomas Street ROW. These results were flagged by the laboratory as having a chromatographic pattern that did not match the fuel standard used for quantification. This finding for MW21 and MW22 was due to the presence of EOS PRO solution in the samples, which originated from the April and May 2016 injection event. The reported concentrations are not considered reflective of actual groundwater conditions at the Property. The DRPH and ORPH were detected in the groundwater sample collected from MW28. Typically, concentrations of DRPH and ORPH have not been detected above laboratory reporting limits in the groundwater samples collected from MW28. SoundEarth believes the DRPH and ORPH results from cross-contamination. DRPH and ORPH were not detected above the laboratory reporting limit in the groundwater sample collected from monitoring well MW13.
- GRPH was detected at concentrations below the laboratory reporting limit and/or groundwater cleanup level in groundwater samples collected from monitoring wells MW13, MW21, MW22, and MW28.

DATA QUALITY REVIEW

The analytical results for the current investigation were checked for completeness immediately upon receipt from the laboratory to ensure that the data and QA/QC information requested was present. Data quality was assessed by considering calibration verification criteria, hold times, surrogate recovery, method blanks, laboratory control samples and laboratory control sample duplicates (LCS and LCSD, respectively), matrix spike and matrix spike duplicate recovery and relative percent differences, and detection limits. Our evaluation assumes that the QA/QC information is correct as reported by the laboratory and merely provides an interpretation of the QA/QC results.

Hold Times and Preservation

All analyses were completed within specified hold times for all analytes except for those analytes discussed below. Preservation was acceptable for all samples.

- The groundwater samples collected from monitoring wells MW26 and MW28 during the second quarter 2024 groundwater monitoring event were out of hold time for nitrate and ferrous iron.
- The groundwater samples collected from monitoring wells MW18, MW19, and MW21 through MW25 and injection wells IW50 and IW61 during the second quarter 2024 groundwater monitoring event were out of hold time for ferrous iron.
- The groundwater sample collected from monitoring well MW28 during the fourth quarter 2024 groundwater monitoring event was out of hold time for ferrous iron.
- The groundwater samples collected from monitoring wells MW18, MW19, and MW21 through MW25 and injection wells IW04, IW50, and IW61 during the second quarter 2024 groundwater monitoring event were out of hold time for nitrate and ferrous iron.

The sample results were flagged in the laboratory reports and noted in the groundwater results tables.

Calibration Verification Criteria

For the method blanks, the calibration verification exceeded the upper range of the calibration curve for manganese in the second quarter of 2024 and for iron in the fourth quarter of 2024. Manganese and iron were not detected in the method blanks. No action is required.

Detection Limits

For the second quarter of 2024, the VFA select results for acetate and formate are flagged as estimates because the results are reported between the laboratory quantitation and reporting quantitation limits.

Laboratory Method Blanks

Analytes were not detected in any of the laboratory method blanks.

Accuracy and Precision

The percent surrogate recovery and percent recoveries for the matrix spikes and LCSs for CVOCs, total petroleum hydrocarbons, and metals were all within control limits. Relative percent differences for the LCSs and their LCSDs were within control limits, as applicable. Accuracy and precision results were not provided for VFAs.

Laboratory Reporting Limits

Reporting limits for all media were below applicable Washington State Model Toxics Control Act cleanup levels.

Completeness

Based on the results from the data quality review, analytical results are usable to meet the project objectives. Laboratory analytical reports are provided in Attachment A.

STATISTICAL TREND ANALYSIS

SoundEarth performed a statistical analysis to evaluate the trend in concentrations of CVOCs in the groundwater at the Site. The analysis was performed on groundwater samples collected between May

2015 and December 2024. In cases where a monitoring well was installed after 2015, the earliest sample results were used to perform the trend analysis. If the concentrations of CVOCs in groundwater samples taken in December 2024 did not exceed the laboratory reporting limits or groundwater cleanup levels, then those samples were not included in the trend analysis.

The “target wells” used to perform the trend analyses include:

- On-Property Monitoring and Injection Wells: MW18, MW19, MW21, MW22, MW24, MW25, IW50, and IW61
- ROW Monitoring Wells: MW04, MW07, MW26, and MW27
- Former Seattle Times Monitoring Wells: MW29 and MW29R

The trend in CVOC concentrations at each target well (i.e., increasing, decreasing, or stable) was analyzed using the Mann-Kendall non-parametric trend analysis method as presented in the EPA “Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Ground Water” (Wiedemeier et al. 1998). The trend analysis was performed using EPA Statistical Software for Environmental Applications for Data Sets with and without Nondetect Observations dated June 2022 (ProUCL version 5.2.00); CVOC results reported as non-detect were entered at half the laboratory reporting limit to perform the trend analyses.

The trend analysis for monitoring well MW29 was performed by combining analytical results from monitoring wells MW29 and MW29R, which are located on the Seattle Times Site.

The trend analyses for the target monitoring wells are summarized in Table 7. The output from the Mann-Kendall trend analysis is provided in Attachment B. The changes in the concentrations of CVOC in the groundwater at the target wells over time are presented in Attachment C.

PCE and TCE Trend Analysis

As of December 2024, findings from the PCE and TCE trend analysis are as follows:

- The trend analysis for PCE in the groundwater at monitoring well MW29-29R located on the former Seattle Times Site shows a trend that is statistically undetermined. An undetermined statistical trend is defined as insufficient evidence to identify a significant trend at the specified level of statistical significance. Chart A shows that the change in the concentrations of PCE over time at monitoring well MW29-MW29R is variable.
- The trend analysis for TCE in the groundwater at monitoring well MW25 located on the Property is statistically undetermined. Chart B shows a qualitative decline in the concentration of TCE at monitoring well MW25 over time.
- The trend analyses for TCE in the groundwater at monitoring wells MW07 located in the Boren Avenue ROW indicates a decreasing concentration of TCE with time. Chart C shows the decline in concentration of TCE in groundwater at monitoring well MW07 over time.
- The trend analysis for TCE in the groundwater at monitoring wells MW04 and MW26 located in Harrison Street ROW indicates a stable concentration over time. Charts M and D show the change in the concentration of TCE in the groundwater at monitoring wells MW04 and MW26 is variable.

- The trend analysis for the TCE concentrations in the groundwater at monitoring well MW27 located in the Boren Avenue ROW indicates that TCE concentrations in the groundwater are decreasing with time. Chart E shows the decline in the concentration of TCE in the groundwater at monitoring well MW27 over time.

Cis-1,2-DCE and VC Trend Analysis

As of the fourth quarter of 2024, findings from the cis-1,2-DCE and VC trend analyses are as follows:

- The trend analysis for cis-1,2-DCE in groundwater at on-Property monitoring well MW22 shows an increase in the concentration over time. Chart G shows the change in the concentrations of cis-1,2-DCE in the groundwater.
- The trend analysis for cis-1,2-DCE in groundwater at on-Property injection well IW61 shows a decline in the concentration over time. Chart K shows the change in the concentrations of cis-1,2-DCE in the groundwater.
- The trend analyses for VC in the groundwater at on-Property monitoring wells MW18, MW19, MW21, MW22, MW24, and MW25 and injection wells IW50 and IW61 indicate an increase in concentrations of VC over time. Charts B, F, and G through L show the change in concentration of VC over time at monitoring wells MW18, MW19, MW21, MW22, MW24, and MW25, and injection wells IW50 and IW61.

CONCLUSIONS

Anaerobic conditions are present in groundwater beneath the Property and remain conducive to the biological degradation of PCE/TCE to cis-1,2-DCE/VC via the anaerobic reductive dechlorination pathway. In the ROWs, aerobic conditions in the groundwater are inhibiting the degradation of PCE and TCE to cis-1,2-DCE and VC.

On the Property, an increase in cis-1,2-DCE and VC concentrations is occurring as anticipated given the likely presence of residual PCE and TCE mass and the presence of a yet unknown upgradient source of TCE migrating toward and onto the Property. However, because of the relatively flat groundwater gradient on and downgradient of the Property, and because of aerobic groundwater conditions beneath the eastern portion of the Property and Thomas Street ROW, the footprint of the cis-1,2-DCE/VC groundwater plume remains generally confined to the Property.

Given the two distinctive oxidation reduction conditions in the groundwater at the Site (anaerobic on the Property and aerobic in the ROWs), the CVOC plume at the Site has two distinct geochemical zones that, along with the groundwater hydraulics at the Site, have enhanced overall stability of the CVOC plume in areas downgradient of the Property. The groundwater conditions at the Site are the most beneficial scenario because PCE, TCE, and cis-1,2-DCE are reductively dechlorinated to VC within the Property boundaries and subsequently oxidized either aerobically or via iron reduction beneath the western portion of the Property and the ROWs (Wiedemeier et al. 1998).

While the overall statistical trend in VC concentrations on the Property is increasing with time, engineering controls implemented in the new structures on the Property prevent a complete inhalation pathway, which is documented in the two vapor intrusion studies performed at the Property (SoundEarth 2019). In areas downgradient of the Property in the Thomas Street ROW and on the Seattle Times Site, VC is absent in

the groundwater. These conditions reduce human health risk when considered in conjunction with compliance with remediation levels for roadway excavation workers to protect the inhalation pathway in the Thomas Street ROW, and with remediation levels and engineering controls to prevent a complete inhalation pathway on the Seattle Times Site.

These conditions support the conclusions in SoundEarth's Final Feasibility Study Report, dated January 28, 2025, that additional treatment of the groundwater is not warranted because treating residual concentrations of PCE and TCE beneath the Property and the ROWs would only increase VC concentrations in the groundwater in the ROW and beneath the Seattle Times Site (SoundEarth 2025). Given the high solubility, higher toxicity, and greater volatility of VC compared to PCE, TCE, and cis-1,2-DCE, the absence of VC or low concentrations of VC on the Seattle Times Site are the preferred conditions for the protection of human health and the environment.

CLOSING

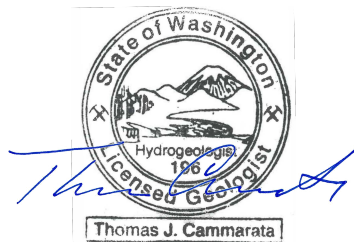
SoundEarth appreciates the opportunity to work with you on this project. Please contact the undersigned at 206-306-1900 if you have any questions or require additional information.

Respectfully,

SoundEarth Strategies, Inc.



Linnea Coleman, GIT
Staff Geologist



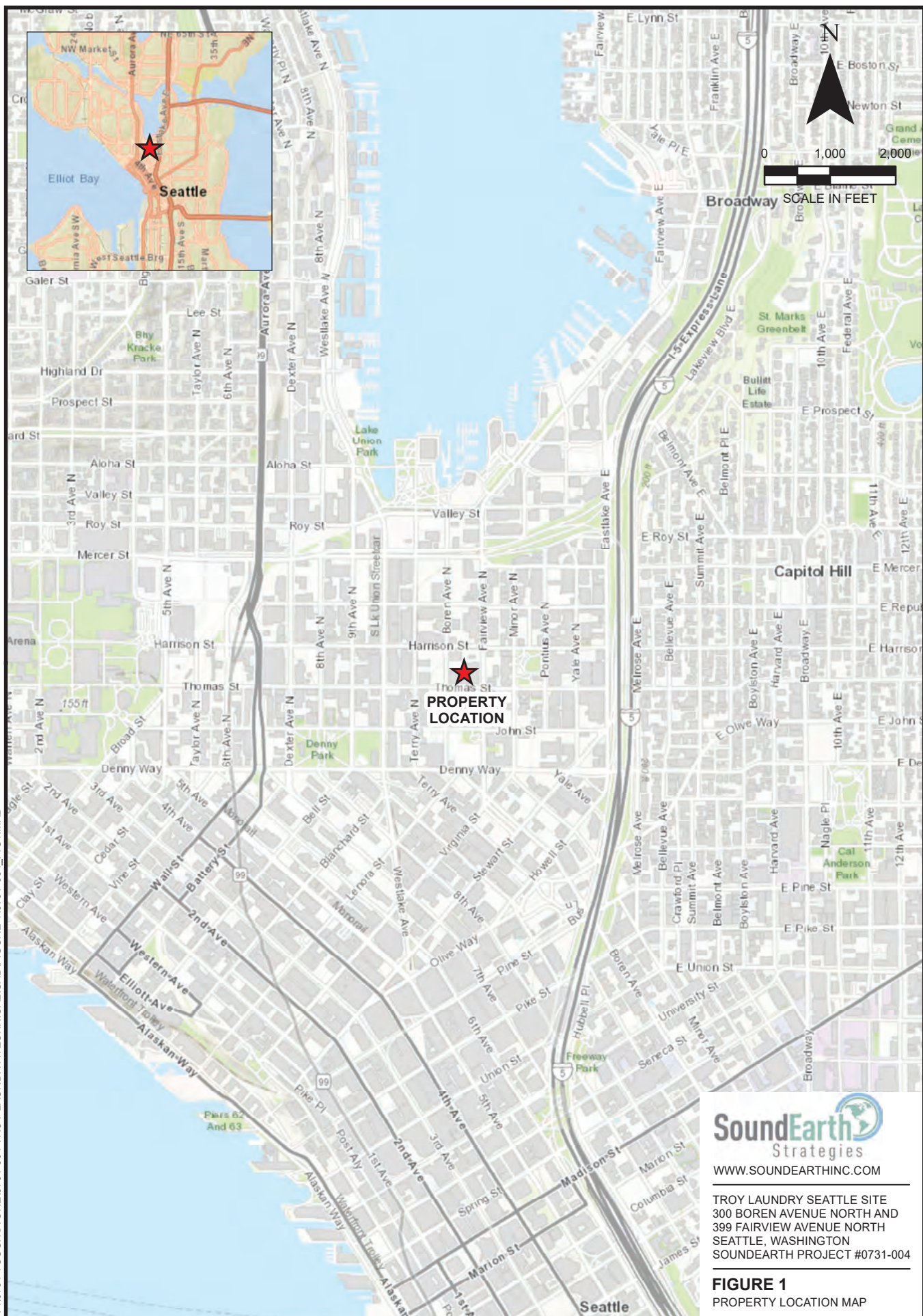
Thomas Cammarata, LG, LHG
Principal

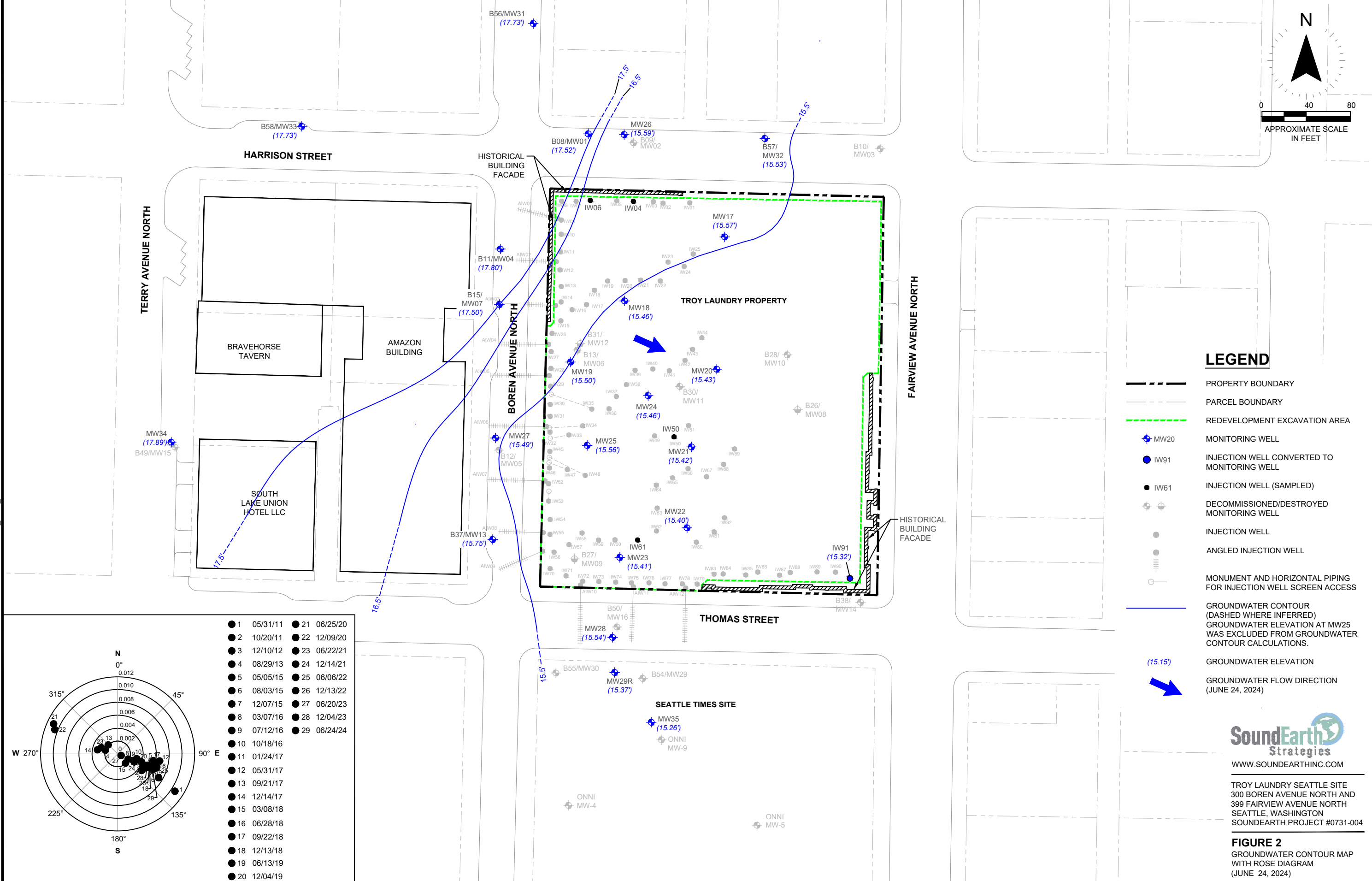
Attachments: Figure 1, Property Location Map
Figure 2, Groundwater Contour Map with Rose Diagram (June 24, 2024)
Figure 3, Groundwater Contour Map with Rose Diagram (December 16, 2024)
Figure 4, Groundwater Analytical Results for Chlorinated Volatile Organic Compounds
Figure 5, Extent of Troy Property TCE and PCE Groundwater Plume—Post-Interim Remedial Action (Q2 2024)
Figure 6, Extent of Troy Property VC/cis-1,2-DCE Groundwater Plume—Post-Interim Remedial Action (Q2 2024)
Figure 7, Extent of Troy Property TCE and PCE Groundwater Plume—Post-Interim Remedial Action (Q4 2024)
Figure 8, Extent of Troy Property VC/cis-1,2-DCE Groundwater Plume—Post-Interim Remedial Action (Q4 2024)
Table 1, Summary of Groundwater Elevations
Table 2, Groundwater Analytical Results for CVOCs
Table 2A, Summary of Groundwater Analytical Results for CVOCs
Table 3, Groundwater Analytical Results for Petroleum Hydrocarbons
Table 4, Groundwater Analytical Results for Natural Attenuation Parameters
Table 5, Groundwater Geochemical and Water Quality Parameters
Table 6, Groundwater Analytical Results for Volatile Fatty Acids
Table 7, Summary of Mann-Kendall Non-Parametric Statistical Trend Results
Attachment A, Laboratory Analytical Reports
 Second Quarter 2024
 Friedman & Bruya, Inc. #406357
 Friedman & Bruya, Inc. #406391
 Friedman & Bruya, Inc. #406432
 SiREM Lab, #S-10534
 Fourth Quarter 2024
 Friedman & Bruya, Inc. #412321
 Friedman & Bruya, Inc. #412352
 Friedman & Bruya, Inc. #412415
Attachment B, Statistical Trend Analyses
Attachment C, Performance Charts

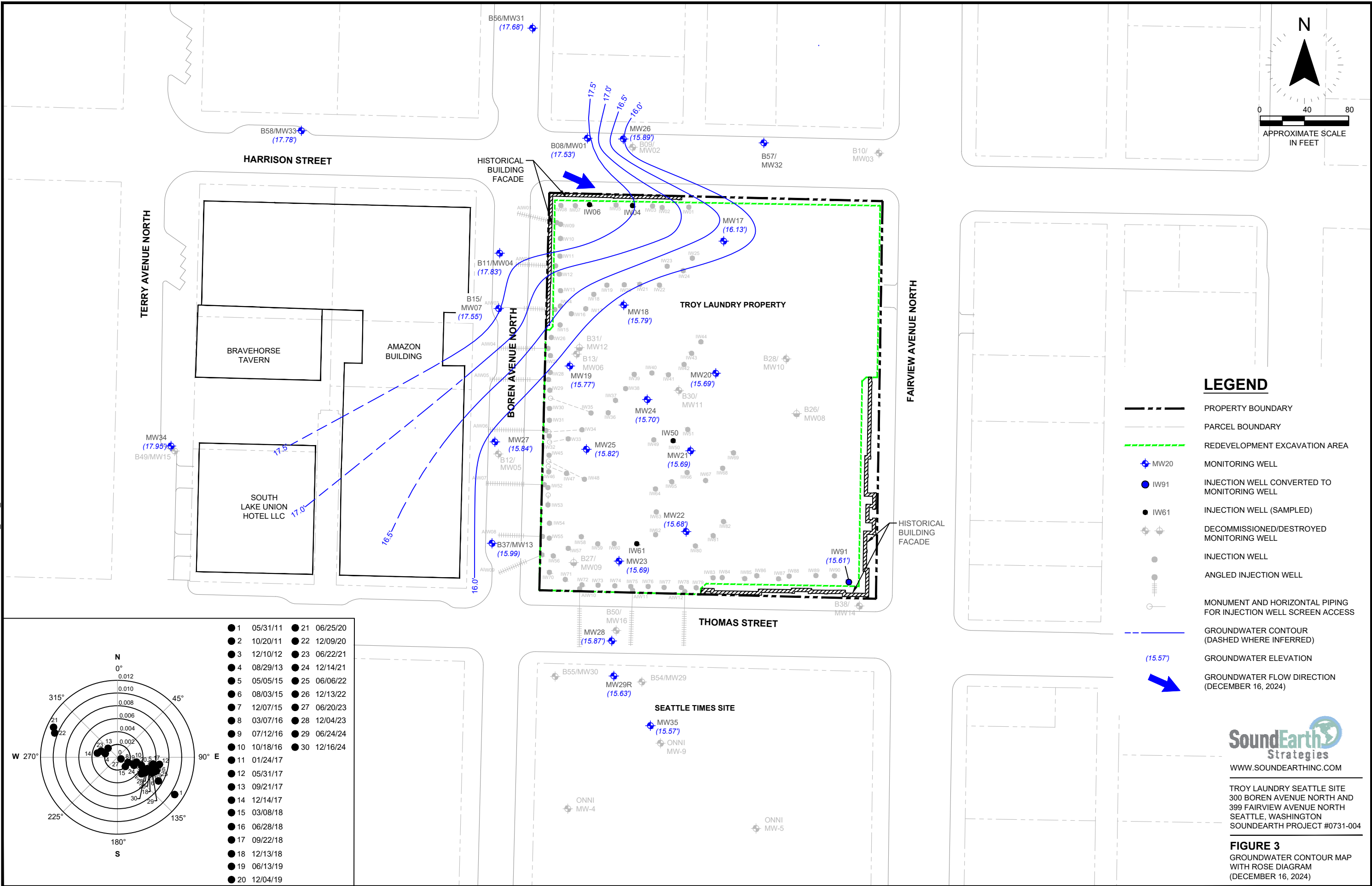
REFERENCES

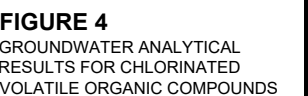
- Puls, Robert W. and Michael J. Barcelona. 1996. "Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures." *Ground Water Issue*. US Environmental Protection Agency Publication No. EPA/540/S-95/504. April.
- SoundEarth Strategies, Inc. (SoundEarth). 2013. *Interim Action Plan, Troy Laundry Property, 307 Fairview Avenue North, Seattle, Washington*. Prepared for Touchstone SLU LLC. August 21.
- _____. 2019. Letter regarding Supplemental Vapor Intrusion Assessment Report, Troy Laundry Property, 300 Boren Avenue North and 399 Fairview Avenue North, Seattle, Washington. From Logan Schumacher and Thomas Cammarata. To Paul Klansnic, TB TS/RELP LLC. May 21.
- _____. 2024a. Letter regarding Response to Ecology Comments on Feasibility Study Report, Troy Laundry Seattle Site, 300 Boren Avenue North and 399 Fairview Avenue North, Seattle, Washington. From Levi Fernandes and Thomas Cammarata. To Sunny Becker, Washington State Department of Ecology. May 2.
- _____. 2024b. PPCD Second Quarter 2024 Progress Memorandum, Troy Laundry Seattle Site, 300 Boren Avenue North and 399 Fairview Avenue North, Seattle, Washington. From Thomas Cammarata. To Washington State Department of Ecology. August 6.
- _____. 2025. *Final Feasibility Study Report, Troy Laundry Seattle Site, 300 Boren Avenue North and 399 Fairview Avenue North, Seattle, Washington*. Prepared for Touchstone SLU LLC and TB TS/RELP LLC. January 28.
- Washington State Department of Ecology (Ecology). 2009. *Guidance for Evaluating Vapor Intrusion in Washington State: Investigation and Remedial Action*. Publication No. 09-09-047. Revised March 2022. January.
- _____. 2022. Memorandum regarding Air, soil gas, and groundwater remediation levels for vapor intrusion in commercial and excavation scenarios. From Priscilla Tomlinson. To South Lake Union Group. July 18.
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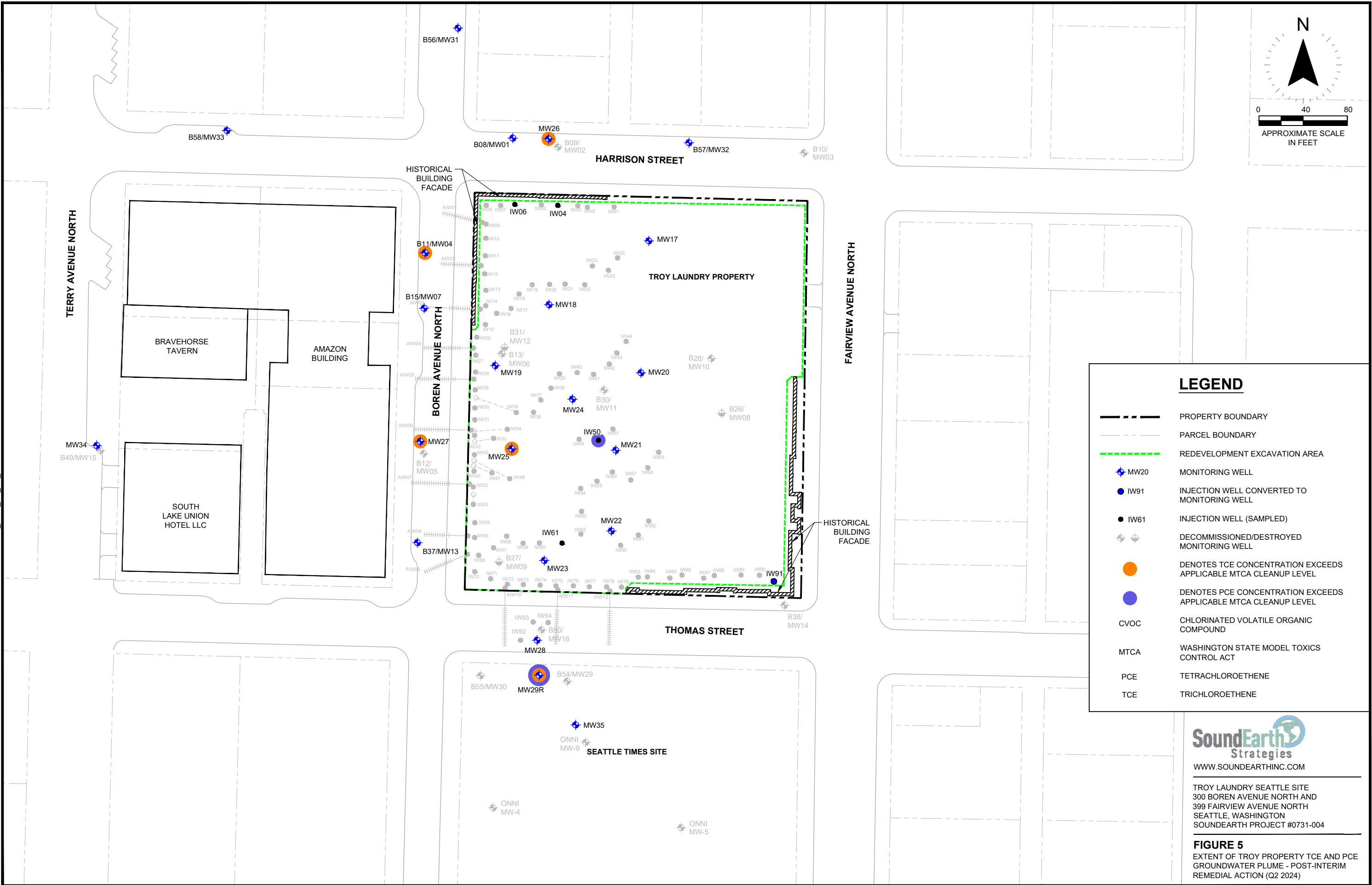
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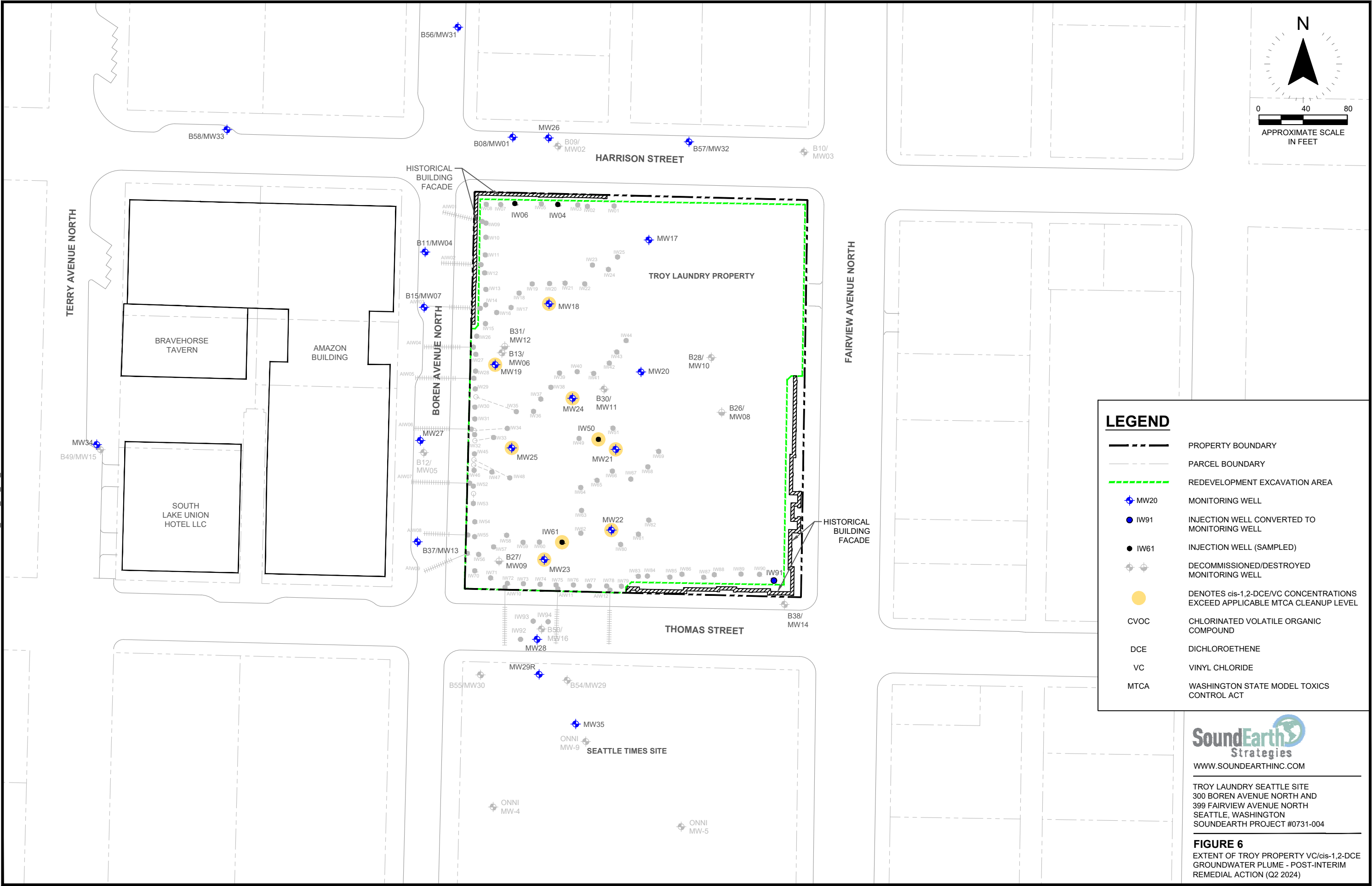


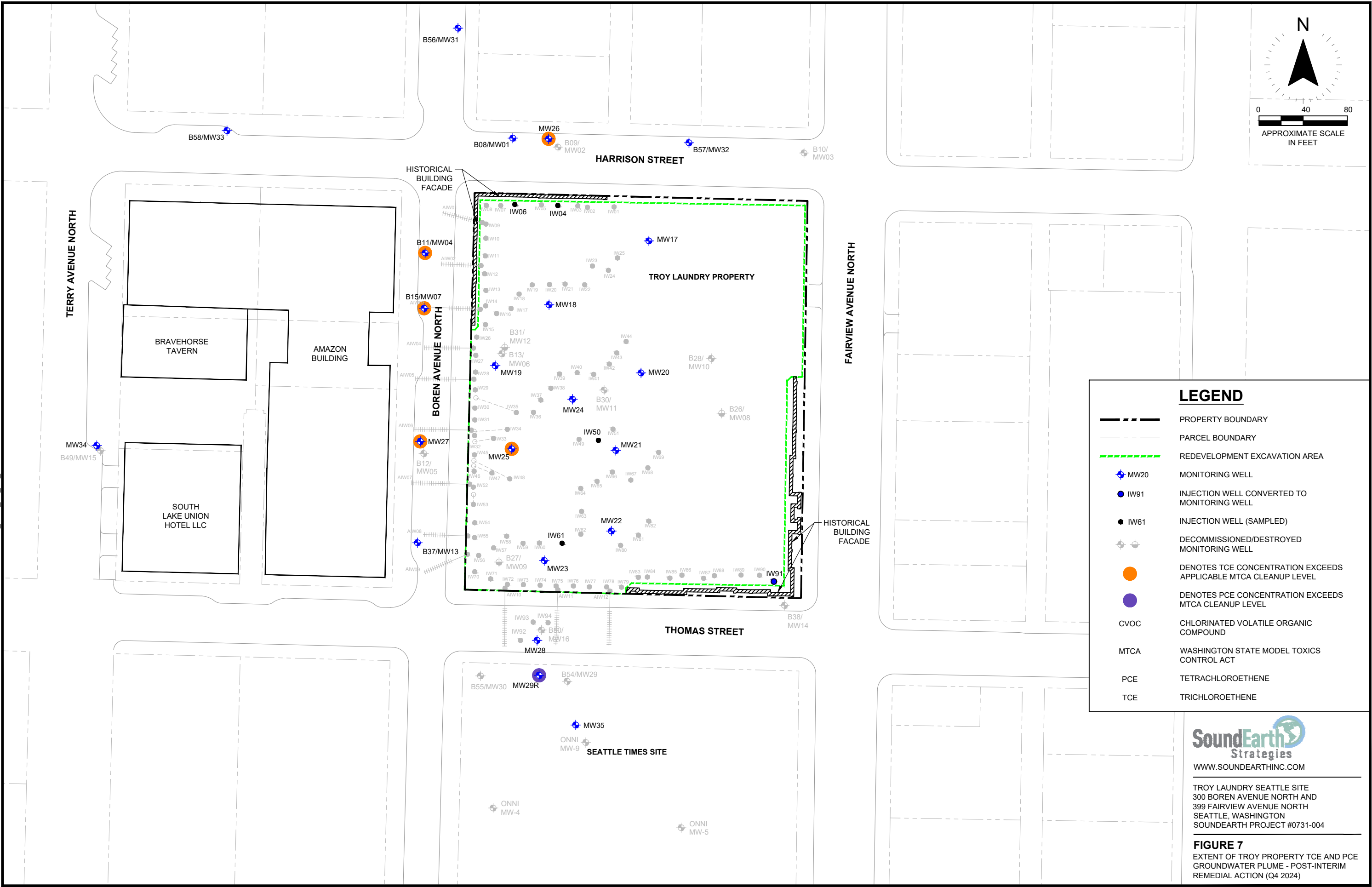


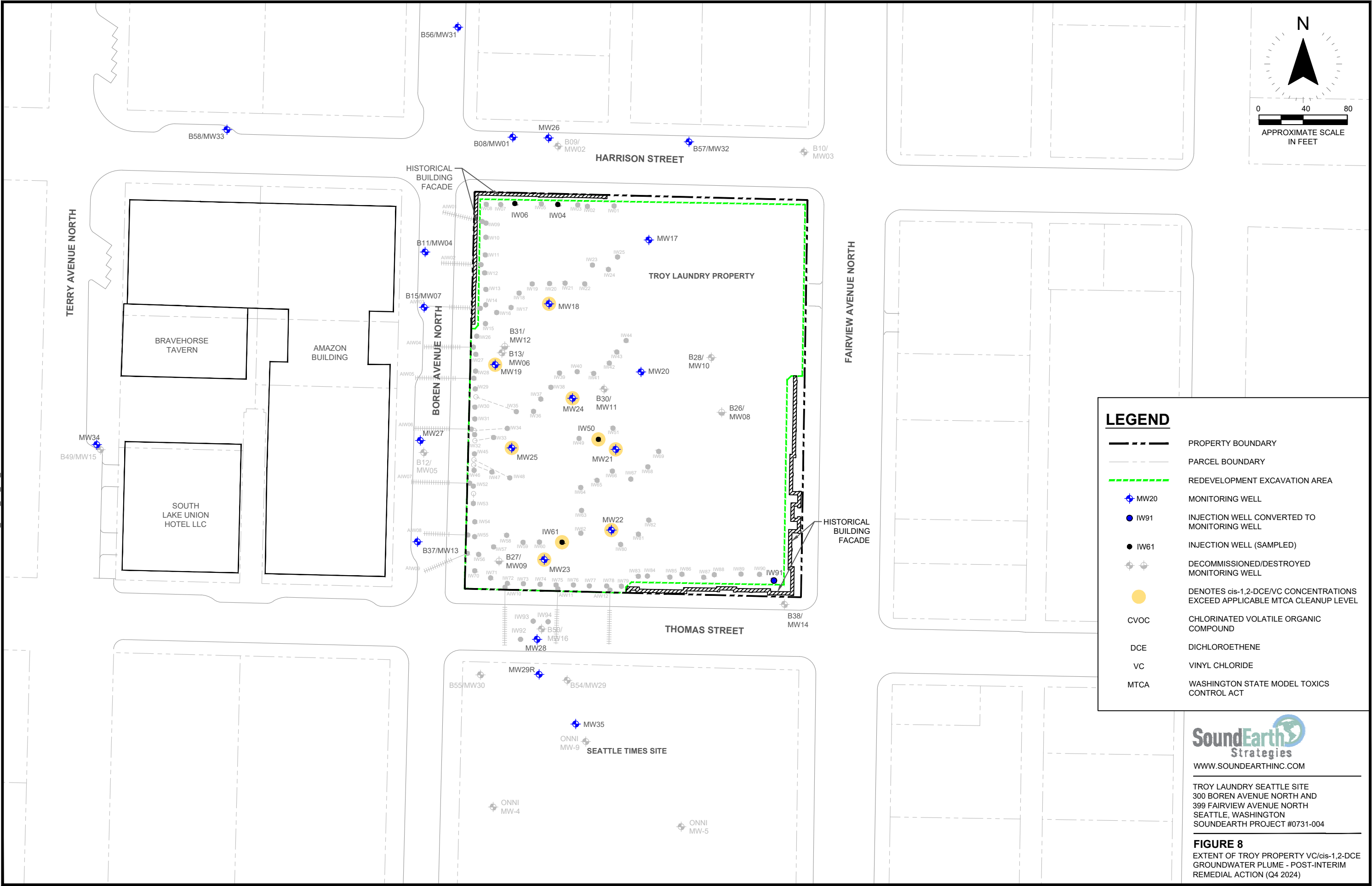












TABLES



Table 1
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Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

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Troy Laundry Property								
MW06	74.78	60	75	15	0	05/31/11	58.70	16.08
						10/20/11	58.91	15.87
						12/13/12	58.71	16.07
						08/29/13	60.30	14.48
DECOMMISSIONED 2013								
MW08	92.88	105	110	-12	-17	10/20/11	77.18	15.70
						08/29/13	78.10	14.78
DECOMMISSIONED 2013								
MW09	92.92	105	110	-12	-17	10/20/11	77.24	15.68
						08/29/13	78.51	14.41
DECOMMISSIONED 2013								
MW10	92.73	75	90	18	3	10/20/11	77.14	15.59
						12/13/12	77.01	15.72
						08/29/13	78.28	14.45
DECOMMISSIONED 2013								
MW11	88.23	68	83	20	5	10/20/11	72.43	15.80
						12/13/12	72.29	15.94
						08/29/13	73.78	14.45
DECOMMISSIONED 2013								
MW12	74.44	95	100	-21	-26	10/20/11	58.71	15.73
						08/29/13	59.99	14.45
DECOMMISSIONED 2013								
MW17	35.72	22	37	14	-1	05/05/15	25.26	10.46
						08/03/15	24.82	10.90
						12/07/15	25.49	10.23
						03/07/16	24.98	10.74
						07/12/16	24.61	11.11
						10/18/16	23.14	12.58
						01/24/17	20.84	14.88
						05/31/17	22.75	12.97
						09/21/17	25.73	9.99
						12/14/17	25.14	10.58
						03/08/18	23.04	12.68
						06/28/18	22.00	13.72
						09/19/18	21.64	14.08
						12/13/18	21.42	14.30
						06/13/19	20.93	14.79
						10/09/19	21.30	14.42
						12/04/19	22.04	13.68
						06/25/20	24.13	11.59
						12/09/20	24.74	10.98
						06/22/21	23.38	12.34
						12/14/21	21.12	14.60
						06/06/22	21.00	14.72
						12/13/22	20.70	15.02
						06/20/23	20.39	15.33
						12/04/23	20.32	15.40
						06/24/24	20.15	15.57
						12/16/24	19.59	16.13

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Seattle, Washington

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MW18	35.34	35	55	0	-20	05/05/15	24.92	10.42
						08/03/15	24.49	10.85
						12/07/15	25.21	10.13
						03/07/16	24.64	10.70
						07/12/16	24.23	11.11
						10/18/16	22.81	12.53
						01/24/17	20.98	14.36
						05/31/17	22.49	12.85
						09/21/17	25.36	9.98
						12/14/17	24.70	10.64
						03/08/18	22.60	12.74
						06/28/18	21.70	13.64
						09/19/18	21.34	14.00
						12/13/18	21.12	14.22
						06/13/19	20.62	14.72
						10/09/19	20.50	14.84
						12/04/19	22.15	13.19
						06/25/20	23.81	11.53
						12/09/20	24.42	10.92
						06/22/21	23.01	12.33
						12/14/21	21.81	13.53
						06/06/22	20.73	14.61
						12/13/22	20.44	14.90
						06/20/23	20.15	15.19
						12/04/23	19.99	15.35
						06/24/24	19.88	15.46
						12/16/24	19.55	15.79
MW19	37.69	35	55	3	-17	05/05/15	27.24	10.45
						08/03/15	26.82	10.87
						12/07/15	27.51	10.18
						03/07/16	26.97	10.72
						07/12/16	26.57	11.12
						10/18/16	25.12	12.57
						01/24/17	22.97	14.72
						05/31/17	24.74	12.95
						09/21/17	27.60	10.09
						12/14/17	26.97	10.72
						03/08/18	24.89	12.80
						06/28/18	24.00	13.69
						09/19/18	23.65	14.04
						12/13/18	25.41	12.28
						06/13/19	22.95	14.74
						10/09/19	27.60	10.09
						12/04/19	23.33	14.36
						06/25/20	26.16	11.53
						12/09/20	26.76	10.93
						06/22/20	25.31	12.38
						12/14/21	24.13	13.56
						06/06/22	23.04	14.65
						12/13/22	22.74	14.95
						06/20/23	22.47	15.22
						12/04/23	22.31	15.38
						06/24/24	22.19	15.50
						12/16/24	21.92	15.77



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MW20	35.63	35	55	1	-19	05/05/15	25.24	10.39
						08/03/15	24.44	11.19
						12/07/15	25.50	10.13
						03/07/16	24.94	10.69
						07/12/16	24.62	11.01
						10/18/16	23.13	12.50
						01/24/17	21.32	14.31
						05/31/17	22.70	12.93
						09/21/17	25.53	10.10
						12/14/17	24.91	10.72
						03/08/18	22.89	12.74
						06/28/18	22.01	13.62
						09/19/18	21.67	13.96
						12/13/18	21.43	14.20
						06/13/19	20.95	14.68
						10/09/19	24.25	11.38
						12/04/19	21.45	14.18
						06/25/20	23.99	11.64
						12/09/20	24.63	11.00
						06/22/21	23.27	12.36
						12/14/21	22.12	13.51
						06/06/22	21.04	14.59
						12/13/22	20.74	14.89
						06/20/23	20.46	15.17
						12/04/23	20.27	15.36
						06/24/24	20.20	15.43
						12/16/24	19.94	15.69
MW21	35.58	35	55	1	-19	05/05/15	25.21	10.37
						08/03/15	24.82	10.76
						12/07/15	25.49	10.09
						03/07/16	24.90	10.68
						07/12/16	24.56	11.02
						10/18/16	23.00	12.58
						01/24/17	21.54	14.04
						05/31/17	23.37	12.21
						09/21/17	25.96	9.62
						12/14/17	25.20	10.38
						03/08/18	24.10	11.48
						06/28/18	22.89	12.69
						09/19/18	INACCESSIBLE	
						12/13/18	22.59	12.99
						06/13/19	23.70	11.88
						10/09/19	26.52	9.06
						12/04/19	20.50	15.08
						06/25/20	23.83	11.75
						12/09/20	24.60	10.98
						06/22/21	23.21	12.37
						12/14/21	22.08	13.50
						06/06/22	20.99	14.59
						12/13/22	20.70	14.88
						06/20/23	20.43	15.15
						12/04/23	20.26	15.32
						06/24/24	20.16	15.42
						12/16/24	19.89	15.69

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MW22	35.47	35	55	0	-20	05/05/15	25.14	10.33
						08/03/15	24.75	10.72
						12/07/15	25.41	10.06
						03/07/16	24.86	10.61
						07/12/16	24.52	10.95
						10/18/16	23.05	12.42
						01/24/17	21.68	13.79
						05/31/17	23.45	12.02
						09/21/17	26.20	9.27
						12/14/17	25.60	9.87
						03/08/18	23.65	11.82
						06/28/18	23.30	12.17
						09/19/18	INACCESSIBLE	
						12/13/18	21.62	13.85
						06/13/19	--	--
						10/09/19	20.73	14.74
						12/04/19	20.18	15.29
						06/25/20	23.75	11.72
						12/09/20	24.39	11.08
						06/22/21	23.10	12.37
						12/14/21	21.94	13.53
						06/06/22	20.79	14.68
						12/13/22	20.61	14.86
						06/20/23	20.32	15.15
						12/04/23	20.15	15.32
						06/24/24	20.09	15.38
						12/16/24	19.79	15.68
MW23	35.43	36	56	-1	-21	05/05/15	25.08	10.35
						08/03/15	24.72	10.71
						12/07/15	25.34	10.09
						03/07/16	24.77	10.66
						07/12/16	24.54	10.89
						10/18/16	22.98	12.45
						01/24/17	21.06	14.37
						05/31/17	22.41	13.02
						09/21/17	25.11	10.32
						12/14/17	24.65	10.78
						03/08/18	22.69	12.74
						06/28/18	21.03	14.40
						09/19/18	21.50	13.93
						12/13/18	21.22	14.21
						06/13/19	20.80	14.63
						10/09/19	22.03	13.40
						12/04/19	21.22	14.21
						06/25/20	23.75	11.68
						12/09/20	24.40	11.03
						06/22/21	23.07	12.36
						12/14/21	21.89	13.54
						06/06/22	20.84	14.59
						12/13/22	20.57	14.86
						06/20/23	20.29	15.14
						12/04/23	20.08	15.35
						06/24/24	20.02	15.41
						12/16/24	19.74	15.69



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MW24	34.88	35	55	0	-20	05/05/15	24.47	10.41
						08/03/15	24.06	10.82
						12/07/15	24.72	10.16
						03/07/16	24.12	10.76
						07/12/16	23.76	11.12
						10/18/16	22.19	12.69
						01/24/17	19.95	14.93
						05/31/17	23.29	11.59
						09/21/17	INACCESSIBLE	
						12/14/17	24.22	10.66
						03/08/18	22.10	12.78
						06/28/18	21.98	12.90
						09/19/18	20.81	14.07
						12/13/18	20.65	14.23
						06/13/19	20.18	14.70
						10/09/19	21.65	13.23
						12/04/19	21.40	13.48
						06/25/20	23.27	11.61
						12/09/20	23.91	10.97
						06/22/21	22.52	12.36
						12/14/21	21.37	13.51
						06/06/22	20.27	14.61
						12/13/22	19.98	14.90
						06/20/23	19.59	15.29
						12/04/23	19.59	15.29
						06/24/24	19.42	15.46
						12/16/24	19.18	15.70
MW25	41.38	35.5	55.5	6	-14	05/05/15	30.85	10.53
						08/03/15	30.60	10.78
						12/07/15	31.30	10.08
						03/07/16	30.71	10.67
						07/12/16	30.44	10.94
						10/18/16	28.95	12.43
						01/24/17	27.07	14.31
						05/31/17	28.24	13.14
						09/21/17	31.09	10.29
						12/14/17	30.52	10.86
						03/08/18	28.54	12.84
						06/28/18	27.69	13.69
						09/19/18	27.32	14.06
						12/13/18	27.12	14.26
						06/13/19	26.64	14.74
						10/09/19	27.79	13.59
						12/04/19	26.63	14.75
						06/25/20	29.70	11.68
						12/09/20	30.33	11.05
						06/22/21	28.97	12.41
						12/14/21	27.78	13.60
						06/06/22	26.70	14.68
						12/13/22	26.45	14.93
						06/20/23	26.06	15.32
						12/04/23	25.91	15.47
						06/24/24	25.82	15.56
						12/16/24	25.56	15.82



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IW91	35.82	20	55	16	-19	05/05/15	25.56	10.26
						08/03/15	25.19	10.63
						12/07/15	25.84	9.98
						03/07/16	25.24	10.58
						07/12/16	24.90	10.92
						10/18/16	23.41	12.41
						01/24/17	21.61	14.21
						05/31/17	22.79	13.03
						09/21/17	25.42	10.40
						12/14/17	24.96	10.86
						03/08/18	23.08	12.74
						06/28/18	22.30	13.52
						09/19/18	21.95	13.87
						12/13/18	21.69	14.13
						06/13/19	21.23	14.59
						10/09/19	23.90	11.92
						12/04/19	21.11	14.71
						06/25/20	23.98	11.84
						12/09/20	24.63	11.19
						06/22/21	23.45	12.37
12/14/21	22.31	13.51						
06/06/22	21.33	14.49						
12/13/22	21.03	14.79						
12/04/23	19.58	16.24						
06/24/24	20.50	15.32						
12/16/24	20.21	15.61						
Boren Avenue North								
MW04	70.69	50	65	21	6	05/27/11	52.22	18.47
	10/20/11					52.82	17.87	
	12/10/12					52.88	17.81	
	08/29/13					57.25	13.44	
	05/05/15					58.22	12.60	
	08/03/15					56.87	13.95	
	12/07/15					58.82	12.00	
	03/07/16					59.25	11.57	
	07/12/16					58.49	12.33	
	10/18/16					57.02	13.80	
	01/24/17					54.06	16.76	
	05/31/17					55.59	15.23	
	09/21/17					62.08	8.74	
	12/14/17					62.03	8.79	
	03/08/18					57.70	13.12	
	06/28/18					54.94	15.88	
	09/19/18					54.38	16.44	
	12/13/18					54.26	16.56	
	06/13/19					53.61	17.21	
	10/09/19					55.40	15.42	
	12/04/19					54.04	16.78	
	06/25/20					62.05	8.77	
	12/09/20					62.18	8.64	
	06/22/21					60.06	10.76	
	12/14/21					55.94	14.88	
	06/06/22					53.67	17.15	
	12/13/22					53.63	17.19	
	06/20/23					53.25	17.57	
	12/04/23					53.38	17.44	
06/24/24	53.02	17.80						
12/16/24	52.99	17.83						



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MW05	84.04	65	80	19	4	05/27/11	67.40	16.64
						10/20/11	67.91	16.13
						12/10/12	68.54	15.50
						08/29/13	69.72	14.32
						05/05/15	INACCESSIBLE	
						08/03/15	INACCESSIBLE	
DECOMMISSIONED 2015								
MW07	74.55	55	70	20	5	05/31/11	56.33	18.22
	10/20/11					56.87	17.68	
	12/10/12					56.96	17.59	
	08/29/13					60.95	13.60	
	05/05/15					62.69	11.99	
	08/03/15					61.67	13.01	
	12/07/15					63.19	11.49	
	03/07/16					63.22	11.46	
	07/12/16					62.82	11.86	
	10/18/16					61.26	13.42	
	01/24/17					58.41	16.27	
	05/31/17					59.90	14.78	
	09/21/17					65.17	9.51	
	12/14/17					INACCESSIBLE		
	03/08/18					61.76	12.92	
	06/28/18					59.45	15.23	
	09/19/18					59.07	15.61	
	12/13/18					58.87	15.81	
	06/13/19					57.93	16.75	
	10/09/19					61.02	13.66	
	12/04/19					58.38	16.30	
	06/30/20					64.92	9.76	
	12/09/20					65.28	9.40	
	06/22/21					63.21	11.47	
	12/14/21					60.22	14.46	
	06/06/22					58.00	16.68	
	12/13/22					57.85	16.83	
	06/20/23					57.51	17.17	
	12/04/23					57.54	17.14	
	06/24/24					57.18	17.50	
	12/16/24					57.13	17.55	
MW13	90.66	70	85	21	-15	10/20/11	74.69	15.97
	12/10/12					75.38	15.28	
	08/29/13					76.23	14.43	
	05/05/15					INACCESSIBLE		
	08/03/15					80.07	10.79	
	12/07/15					80.73	10.13	
	03/07/16					80.07	10.79	
	07/12/16					80.03	10.83	
	10/18/16					78.16	12.70	
	01/24/17					75.56	15.30	
	05/31/17					77.40	13.46	
	09/21/17					80.46	10.40	
	12/14/17					80.19	10.67	
	03/08/18					78.13	12.73	
	06/28/18					77.01	13.85	
	09/19/18					76.68	14.18	
	12/13/18					76.52	14.34	
	06/13/19					76.00	14.86	
	10/09/19					81.45	9.41	
	12/04/19					76.00	14.86	
	06/25/20					79.24	11.62	
	12/09/20					79.98	10.88	
	06/22/21					78.58	12.28	
	12/14/21					77.21	13.65	
	06/06/22					75.95	14.91	
	12/13/22					75.75	15.11	
	06/20/23					75.37	15.49	
	12/04/23					75.27	15.59	
	06/24/24					75.11	15.75	
	12/16/24					74.87	15.99	



Table 1
Summary of Groundwater Elevations
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Well	TOC Elevation ⁽¹⁾ (feet)	Depth to Top of Well Screen (feet approximate)	Depth to Bottom of Well Screen (feet approximate)	Top of Well Screen Elevation (feet NAVD88 approximate)	Bottom of Well Screen Elevation (feet NAVD88 approximate)	Date	Depth to Groundwater (feet below TOC)	Groundwater Elevation (feet NAVD88)
MW27	83.82	90	105	-6	-21	12/07/15	73.86	9.96
						03/07/16	73.23	10.59
						07/12/16	73.01	10.81
						10/18/16	71.38	12.44
						01/24/17	69.57	14.25
						05/31/17	70.89	12.93
						09/21/17	73.87	9.95
						12/14/17	73.25	10.57
						03/08/18	71.10	12.72
						06/28/18	70.20	13.62
						09/19/18	69.85	13.97
						12/13/18	69.69	14.13
						06/13/19	69.19	14.63
						10/09/19	70.30	13.52
						12/04/19	69.11	14.71
						06/30/20	72.38	11.44
						12/09/20	73.10	10.72
						06/22/21	71.61	12.21
						12/14/21	70.32	13.50
						06/06/22	69.25	14.57
						12/13/22	68.91	14.91
06/20/23	68.58	15.24						
12/04/23	68.50	15.32						
06/24/24	68.33	15.49						
12/16/24	67.98	15.84						
MW31	60.75	40	60	21	1	10/09/19	46.49	14.26
						12/04/19	44.16	16.59
						06/30/20	55.35	5.40
						12/09/20	55.66	5.09
						06/22/21	49.39	11.36
						12/14/21	45.72	15.03
						06/06/22	43.74	17.01
						12/13/22	43.68	17.07
						06/20/23	43.32	17.43
						12/04/23	43.45	17.30
06/24/24	43.02	17.73						
12/16/24	43.07	17.68						
Terry Avenue North								
MW15	58.79	41	56	18	3	12/10/12	40.78	18.01
	58.89					08/29/13	45.37	13.42
						05/05/15	45.86	13.03
						08/03/15	44.81	14.08
						12/07/15	47.08	11.81
						03/07/16	47.58	11.31
						07/12/16	46.73	12.16
						10/18/16	44.97	13.92
						01/24/17	42.05	16.84
						05/31/17	43.08	15.81
						09/21/17	49.62	9.27
						12/14/17	49.92	8.97
						03/08/18	45.80	13.09
						06/28/18	42.95	15.94
						09/19/18	42.35	16.54
						12/13/18	42.26	16.63
						06/13/19	41.65	17.24
						10/09/19	41.80	17.09
						12/04/19	42.00	16.89
						06/25/20	51.75	7.14
	12/09/20					52.94	5.95	
06/22/21	NM	NM						
WELL DAMAGED 2021								



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Seattle, Washington

Well	TOC Elevation ⁽¹⁾ (feet)	Depth to Top of Well Screen (feet approximate)	Depth to Bottom of Well Screen (feet approximate)	Top of Well Screen Elevation (feet NAVD88 approximate)	Bottom of Well Screen Elevation (feet NAVD88 approximate)	Date	Depth to Groundwater (feet below TOC)	Groundwater Elevation (feet NAVD88)
MW34	59.09	40	55	19	4	12/14/21	44.19	14.90
						06/06/22	41.89	17.20
						12/13/22	41.74	17.35
						06/20/23	41.43	17.66
						12/04/23	41.54	17.55
						06/24/24	41.20	17.89
						12/16/24	41.14	17.95
Thomas Street								
MW14	104.4	90	105	14	-1	10/20/11	88.81	15.59
						12/13/12	88.66	15.74
						08/29/13	89.99	14.41
DECOMMISSIONED 2013								
MW16	99.02	91	106	8	-7	12/10/12	83.47	15.55
	99.18					08/29/13	84.59	14.43
						05/05/15	88.87	10.31
						08/03/15	88.53	10.65
						12/07/15	89.15	10.03
						03/07/16	88.54	10.64
						07/12/16	88.41	10.77
						10/18/16	86.74	12.44
						01/24/17	84.71	14.47
						05/31/17	86.04	13.14
						09/21/17	88.85	10.33
						12/14/17	88.43	10.75
							03/08/18	86.51
WELL DAMAGED 2018								
MW28	99.18	90	105	9.18	-5.82	06/13/19	84.54	14.64
						10/08/19	84.75	14.43
						12/04/19	84.48	14.70
						06/25/20	87.38	11.80
						12/09/20	88.1	11.08
						05/21/21	87.23	11.95
						06/22/21	86.77	12.41
						08/17/21	86.65	12.53
						09/21/21	86.56	12.62
						12/14/21	85.49	13.69
						06/06/22	84.44	14.74
						12/13/22	84.29	14.89
						06/20/23	83.93	15.25
						12/04/23	83.33	15.85
						06/24/24	83.64	15.54
	12/16/24	83.31	15.87					
Fairview Avenue North								
MW-C	107.75	85	100	23	8	08/29/13	93.32	14.43
						05/05/15	97.64	10.11



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Seattle, Washington

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Harrison Street										
MW01	68.68	45	60	24	9	05/25/11	50.59	18.09		
						10/20/11	51.03	17.65		
						12/10/12	51.24	17.44		
						08/29/13	54.35	14.33		
						05/05/15	58.11	10.71		
	08/03/15					INACCESSIBLE				
	12/07/15					58.60	10.22			
	03/07/16					57.69	11.13			
	07/12/16					57.42	11.23			
	10/18/16					55.65	13.00			
	01/24/17					52.27	16.38			
	05/31/17					54.69	13.96			
	09/21/17					58.91	9.74			
	12/14/17					58.14	10.51			
	03/08/18					55.84	12.81			
	06/28/18					54.20	14.45			
	09/19/18					53.93	14.72			
	12/13/18					53.05	15.60			
	06/13/19					52.34	16.31			
	10/09/19					56.65	12.00			
	12/04/19					52.76	15.89			
	06/25/20					57.08	11.57			
	12/09/20					57.84	10.81			
	06/22/21					56.32	12.33			
	12/14/21					54.79	13.86			
	06/06/22					52.9	15.75			
	12/13/22					52.22	16.43			
	06/20/23					51.56	17.09			
	12/04/23					51.88	16.77			
	06/24/24					51.13	17.52			
	12/16/24					51.12	17.53			
MW02	70.92	55	70	16	1	05/25/11	54.84	16.08		
						10/20/11	55.08	15.84		
						12/10/12	55.27	15.65		
						08/29/13	56.48	14.44		
						05/05/15	INACCESSIBLE			
						08/03/15	INACCESSIBLE			
DECOMMISSIONED 2015										
MW03	84.65	65	80	20	5	05/27/11	68.75	15.90		
						10/20/11	68.97	15.68		
						12/10/12	69.21	15.44		
						08/29/13	70.21	14.44		
						05/05/15	INACCESSIBLE			
						08/03/15	INACCESSIBLE			
DECOMMISSIONED 2015										



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Seattle, Washington

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MW26	70.57	75	90	-4	-19	12/07/15	60.42	10.15
						03/07/16	59.82	10.75
						07/12/16	59.52	11.05
						10/18/16	58.10	12.47
						01/24/17	56.10	14.47
						05/31/17	57.79	12.78
						09/21/17	60.94	9.63
						12/14/17	60.11	10.46
						03/08/18	57.79	12.78
						06/28/18	56.83	13.74
						09/19/18	56.50	14.07
						12/13/18	56.34	14.23
						06/13/19	55.82	14.75
						10/09/19	57.28	13.29
						12/04/09	55.80	14.77
						06/25/20	59.19	11.38
						12/09/20	59.85	10.72
						06/22/21	58.25	12.32
						12/14/21	56.99	13.58
						06/06/22	55.90	14.67
						12/13/22	55.65	14.92
						06/20/23	55.20	15.37
						12/04/23	55.09	15.48
						06/24/24	54.98	15.59
						12/16/24	54.68	15.89
MW32	78.38	60	75	18	3	10/09/19	65.80	12.58
						12/04/19	62.63	15.75
						06/25/20	66.88	11.50
						12/09/20	67.40	10.98
						06/22/21	66.19	12.19
						12/14/21	64.93	13.45
						06/06/22	63.75	14.63
						12/13/22	63.46	14.92
						06/20/23	63.10	15.28
						12/04/23	63.00	15.38
						06/24/24	62.85	15.53
MW33	56.62	31	51	26	6	12/16/24	INACCESSIBLE	
						10/09/19	40.30	16.32
						12/04/19	39.93	16.69
						06/30/20	50.69	5.93
						12/09/20	WELL DRY	
						06/22/21	46.00	10.62
						12/14/21	41.70	14.92
						06/06/22	39.52	17.10
						12/13/22	39.50	17.12
						06/20/23	39.11	17.51
						12/04/23	39.25	17.37
SMW01	49.45	30	40	19	9	08/29/13	36.78	12.67
SMW02	49.26	30	40	19	9	08/29/13	36.67	12.59
SMW06	48.63	30	40	19	9	08/29/13	36.39	12.24
SMW08	49.30	30	40	19	9	08/29/13	36.69	12.61



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Westlake Avenue North								
SMW09	48.25	30	40	18	8	08/29/13	35.84	12.41
South-Adjoining Property								
MW29	101.72	82	102	20	0	10/09/19	86.91	14.81
						12/04/19	87.03	14.69
						06/25/20	89.84	11.88
						12/09/20	90.57	11.15
						06/22/21	89.29	12.43
						12/14/21	88.09	13.63
						06/06/22	87.06	14.66
DECOMMISSIONED 2022								
MW30	101.97	84	104	18	-2	10/09/19	87.95	14.02
						12/04/19	87.25	14.72
						06/25/20	90.12	11.85
						12/09/20	91.10	10.87
						06/22/21	89.62	12.35
						12/14/21	88.31	13.66
						06/06/22	88.28	13.69
DECOMMISSIONED 2022								
ONNI-MW-4	108.84	93	105	16	4	06/25/20	97.13	11.71
						12/09/20	97.83	11.01
						06/22/21	96.63	12.21
						12/14/21	95.43	13.41
						06/06/22	94.26	14.58
DECOMMISSIONED 2022								
ONNI-MW-5	112.78	93	105	20	8	02/06/20	93.10	19.68
						06/25/20	95.65	17.13
						12/09/20	96.30	16.48
						06/22/21	95.14	17.64
						12/14/21	94.04	18.74
						06/06/22	97.95	14.83
DECOMMISSIONED 2022								
ONNI-MW-9	107.10	95	110	12	-3	12/14/21	93.60	13.50
						06/06/22	92.68	14.42
DECOMMISSIONED 2022								
MW29R	53.65	32	52	21.65	1.65	08/24/23	38.60	15.05
						12/04/23	INACCESSIBLE	
						06/24/24	38.28	15.37
						12/16/24	38.02	15.63
MW35	53.65	41	56	12.65	-2.35	08/24/23	38.64	15.01
						12/04/23	INACCESSIBLE	
						06/24/24	38.39	15.26
						12/16/24	38.08	15.57
North-Adjoining Property								
SLU-MW01 ⁽²⁾	53.43	35	45	18	8	08/29/13	40.00	13.43
DECOMMISSIONED 2013								
SLU-MW02 ⁽²⁾	52.76	30	40	23	13	08/29/13	WELL DRY	--
DECOMMISSIONED 2013								

NOTES:

⁽¹⁾ TOC elevations surveyed relative to NAVD88.

⁽²⁾ Groundwater elevation data compiled from reports on file at the Washington State Department of Ecology.

-- = not analyzed, measured, or calculated

NAVD88 = North American Vertical Datum of 1988

TOC = top of casing

Table 2
Groundwater Analytical Results for CVOCs
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	PCE ⁽¹⁾ (µg/L)	TCE ⁽¹⁾ (µg/L)	cis-1-2-DCE ⁽¹⁾ (µg/L)	trans-1-2-DCE ⁽¹⁾ (µg/L)	Vinyl Chloride ⁽¹⁾ (µg/L)
Troy Laundry Property								
MW06	MW06-20110531	05/31/11	SoundEarth	3.1	8.2	150 ^{ns}	<1	0.76
	MW06-20111012	10/12/11	SoundEarth	3.6	11	120	<1	0.76
	MW06-20130909	09/09/13	SoundEarth	3.8	4.5	150	<1	0.93
DECOMMISSIONED 2013								
MW08	MW08-20111013	10/13/11	SoundEarth	<1	<1	<1	<1	<0.2
	MW08-20130910	09/10/13	SoundEarth	<1	<1	<1	<1	<0.2
DECOMMISSIONED 2013								
MW09	MW09-20111013	10/13/11	SoundEarth	<1	16	22	<1	<0.2
	MW09-20130910	09/10/13	SoundEarth	1.6	15	2.0	<1	<0.2
DECOMMISSIONED 2013								
MW10	MW10-20111012	10/12/11	SoundEarth	<1	<1	<1	<1	<0.2
	MW10-20130909	09/09/13	SoundEarth	<1	<1	<1	<1	<0.2
DECOMMISSIONED 2013								
MW11	MW11-20111013	10/13/11	SoundEarth	21	2.6	5.6	<1	<0.2
	MW11-20130909	09/09/13	SoundEarth	39	3.8	3.6	<1	<0.2
DECOMMISSIONED 2013								
MW12	MW12-20111017	10/17/11	SoundEarth	<1	19	1.3	<1	<0.2
	MW12-20130909	09/09/13	SoundEarth	<1	20	<1	<1	<0.2
DECOMMISSIONED 2013								
MW17	MW17-20150506	05/06/15	SoundEarth	<1	2.2	<1	<1	<0.2
	MW17-20150804	08/07/15	SoundEarth	<1	1.5	<1	<1	<0.2
	MW17-20151207	12/07/15	SoundEarth	<1	1.5	<1	<1	<0.2
	MW17-20160308	03/08/16	SoundEarth	<1	<1	<1	<1	<0.2
	MW17-20160714	07/14/16	SoundEarth	<1	1.2	<1	<1	<0.2
	MW17-20161020	10/20/16	SoundEarth	<1	2.1	<1	<1	<0.2
	MW17-20170126	01/26/17	SoundEarth	<1	1.9	<1	<1	<0.2
	MW17-20170601	06/01/17	SoundEarth	<1	2.5	<1	<1	<0.2
	MW17-20170923	09/23/17	SoundEarth	<1	2.1	1.2	<1	<0.2
	MW17-20171216	12/16/17	SoundEarth	<1	2.5	1.7	<1	<0.2
	MW17-20180310	03/10/18	SoundEarth	<1	2.6	1.5	<1	<0.2
	MW17-20180630	06/30/18	SoundEarth	<1	2.8	2.2	<1	<0.2
	MW17-20180922	09/22/18	SoundEarth	<1	2.7	2.0	<1	<0.2
	MW17-20181215	12/15/18	SoundEarth	<1	2.9	2.2	<1	<0.2
	MW17-20190615	06/15/19	SoundEarth	<1	3.4	2.2	<1	<0.2
	MW17-20191207	12/07/19	SoundEarth	<1	3.9	2.2	<1	<0.2
	MW17-20200627	06/27/20	SoundEarth	<1	<1	<1	<1	<0.2
	MW17-20201212	12/12/20	SoundEarth	<1	<1	<1	<1	<0.2
	MW17-20210625	06/25/21	SoundEarth	<1	1.7	<1	<1	<0.2
	MW17-20211217	12/17/21	SoundEarth	<1	1.5	<1	<1	<0.2
Well not sampled 2022, 2023 or 2024, per Ecology								
MW18	MW18-20150506	05/06/15	SoundEarth	<1	46	5.2	<1	<0.2
	MW18-20150803	08/03/15	SoundEarth	<1	51	4.6	<1	<0.2
	MW18-20151208	12/08/15	SoundEarth	<1	51	9.9	<1	<0.2
	MW18-20160308	03/08/16	SoundEarth	<1	44	8.1	<1	<0.2
	MW18-20160714	07/14/16	SoundEarth	<1	3.3	1.7	<1	<0.2
	MW18-20161020	10/20/16	SoundEarth	<1	6.5	4.0	<1	<0.2
	MW18-20170126	01/26/17	SoundEarth	<1	7.7	14	<1	0.25
	MW18-20170601	06/01/17	SoundEarth	<1	3.3	14	<1	0.31
	MW18-20170923	09/23/17	SoundEarth	<1	<1	22	<1	0.38
	MW18-20171216	12/16/17	SoundEarth	<1	<1	22	<1	0.24
	MW18-20180310	03/10/18	SoundEarth	<1	<1	27	<1	0.40
	MW18-20180630	06/30/18	SoundEarth	<1	<1	27	<1	0.43
	MW18-20180922	09/22/18	SoundEarth	<1	<1	21	<1	0.42
	MW18-20181215	12/15/18	SoundEarth	<1	<1	24	<1	0.49
	MW18-20190615	06/15/19	SoundEarth	<1	<1	28	<1	0.44
	MW18-20191207	12/07/19	SoundEarth	<1	<1	28	<1	0.55
	MW18-20200627	06/27/20	SoundEarth	<1	<1	27	<1	1.5
	MW18-20201212	12/12/20	SoundEarth	<1	<1	15	<1	2.4
	MW18-20210625	06/25/21	SoundEarth	<1	<1	1.9	<1	1.7
	MW18-20211217	12/17/21	SoundEarth	<1	<0.5	<1	<1	1.8
	MW18-20220609	06/09/22	SoundEarth	<1	<0.5	<1	<1	1.6
	MW18-20221215	12/15/22	SoundEarth	<1	<0.5	<1	<1	1.1
	MW18-20230622	06/22/23	SoundEarth	<1	<0.5	<1	<1	1.4
	MW18-20231207	12/07/23	SoundEarth	<1	<0.5	<1	<1	1.3
	MW18-20240627	06/27/24	SoundEarth	<1	<0.5	3.6	<1	2.4
	MW18-20241219	12/19/24	SoundEarth	<1	<0.5	3.6	<1	1.5
Commercial Worker Groundwater Remediation Level at the Property ⁽¹⁾				120	12	1,600	NA	1.6
Roadway Excavation Worker Groundwater Remediation Level in ROWs ⁽²⁾				760	40	10,000	NA	9.9
MTCA Cleanup Level				5 ⁽³⁾	5 ⁽³⁾	16 ⁽³⁾	160 ⁽³⁾	0.2 ⁽³⁾

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300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	PCE ⁽¹⁾ (µg/L)	TCE ⁽¹⁾ (µg/L)	cis-1-2-DCE ⁽¹⁾ (µg/L)	trans-1-2-DCE ⁽¹⁾ (µg/L)	Vinyl Chloride ⁽¹⁾ (µg/L)
MW19	MW19-20150507	05/07/15	SoundEarth	<1	69	15	<1	<0.2
	MW19-20150803	08/03/15	SoundEarth	<1	61	20	<1	<0.2
	MW19-20151207	12/07/15	SoundEarth	<1	65	23	<1	<0.2
	MW19-20160308	03/08/16	SoundEarth	<1	52	26	<1	<0.2
	MW19-20160713	07/13/16	SoundEarth	<1	4.6	10	<1	<0.2
	MW19-20161021	10/21/16	SoundEarth	<1	10	4.4	<1	0.40
	MW19-20170125	01/25/17	SoundEarth	<1	5.5	3.9	<1	0.30
	MW19-20170601	06/01/17	SoundEarth	<1	5.7	3.5	<1	0.44
	MW19-20170923	09/23/17	SoundEarth	<1	1.7	3.4	<1	0.97
	MW19-20171216	12/16/17	SoundEarth	<1	1.1	13	<1	0.97
	MW19-20180310	03/10/18	SoundEarth	<1	<1	12	<1	0.78
	MW19-20180630	06/30/18	SoundEarth	<1	<1	12	<1	0.96
	MW19-20180922	09/22/18	SoundEarth	<1	<1	16	<1	0.86
	MW19-20190615	06/15/19	SoundEarth	<1	<1	27	<1	0.79
	MW19-20191207	12/07/19	SoundEarth	<1	<1	35	<1	0.98
	MW19-20200627	06/27/20	SoundEarth	<1	<1	41	<1	0.78
	MW19-20201212	12/12/20	SoundEarth	<1	<1	22	<1	2.6
	MW19-20210625	06/25/21	SoundEarth	<1	<1	<1	<1	1.0
	MW19-20211217	12/17/21	SoundEarth	<1	<0.5	<1	<1	1.5
	MW19-20220609	06/09/22	SoundEarth	<1	<0.5	<1	<1	1.9
	MW19-20221216	12/16/22	SoundEarth	<1	<0.5	<1	<1	1.9
	MW19-20230622	06/22/23	SoundEarth	<1	<0.5	<1	<1	0.25
	MW19-20231207	12/07/23	SoundEarth	<1	<0.5	<1	<1	2.8
	MW19-20240627	06/27/24	SoundEarth	<1	<0.5	<1	<1	2.2
	MW19-20241219	12/19/24	SoundEarth	<1	<0.5	<1	<1	2.0
MW20	MW20-20150506	05/06/15	SoundEarth	<1	<1	1.5	<1	<0.2
	MW20-20150803	08/03/15	SoundEarth	<1	<1	1.2	<1	<0.2
	MW20-20151207	12/07/15	SoundEarth	<1	<1	<1	<1	<0.2
	MW20-20160309	03/09/16	SoundEarth	<1	<1	<1	<1	<0.2
	MW20-20160715	07/15/16	SoundEarth	<1	<1	<1	<1	<0.2
	MW20-20161020	10/20/16	SoundEarth	<1	<1	<1	<1	<0.2
	MW20-20170125	01/25/17	SoundEarth	<1	<1	4.1	<1	<0.2
	MW20-20170601	06/01/17	SoundEarth	<1	<1	1.2	<1	<0.2
	MW20-20170924	09/24/17	SoundEarth	<1	<1	9.5	<1	<0.2
	MW20-20171216	12/16/17	SoundEarth	<1	1.3	15	<1	0.35
	MW20-20180310	03/10/18	SoundEarth	<1	<1	11	<1	<0.2
	MW20-20180630	06/30/18	SoundEarth	<1	<1	7	<1	<0.2
	MW20-20180922	09/22/18	SoundEarth	<1	<1	5.3	<1	<0.2
	MW20-20181215	12/15/18	SoundEarth	<1	<1	4.4	<1	<0.2
	MW20-20190615	06/15/19	SoundEarth	<1	<1	3.8	<1	<0.2
	MW20-20191207	12/07/19	SoundEarth	<1	<1	3.0	<1	<0.2
	MW20-20200627	06/27/20	SoundEarth	<1	1.2	6.1	<1	<0.2
	MW20-20201212	12/12/20	SoundEarth	<1	1.3	6.0	<1	<0.2
	MW20-20210625	06/25/21	SoundEarth	<1	1.6	5.3	<1	<0.2
	MW20-20211217	12/17/21	SoundEarth	<1	0.94	5.2	<1	<0.2
Well not sampled 2022, 2023, or 2024, per Ecology								
MW21	MW21-20150506	05/06/15	SoundEarth	5.1	1.6	7.2	<1	<0.2
	MW21-20150804	08/04/15	SoundEarth	4.9	1.4	4.5	<1	<0.2
	MW21-20151208	12/08/15	SoundEarth	7.3	2.0	6.7	<1	<0.2
	MW21-20160309	03/09/16	SoundEarth	5.3	1.4	7.9	<1	<0.2
	MW21-20160713	07/13/16	SoundEarth	<1	<1	1.2	<1	<0.2
	MW21-20161020	10/20/16	SoundEarth	<1	<1	1.7	<1	<0.2
	MW21-20170126	01/26/17	SoundEarth	<1	<1	2.4	<1	<0.2
	MW21-20170601	06/01/17	SoundEarth	<1	<1	2.4	<1	<0.2
	MW21-20170923	09/23/17	SoundEarth	<1	<1	3.7	<1	<0.2
	MW21-20171216	12/16/17	SoundEarth	<1	<1	14	<1	0.49
	MW21-20180310	03/10/18	SoundEarth	<1	<1	14	<1	0.43
	MW21-20180630	06/30/18	SoundEarth	<1	<1	6.0	<1	0.29
	MW21-20180922	09/22/18	SoundEarth	<1	<1	6.9	<1	0.30
	MW21-20181215	12/15/18	SoundEarth	<1	<1	16	<1	0.96
	MW21-20190615	06/15/19	SoundEarth	<1	<1	29	<1	1.1
	MW21-20191207	12/07/19	SoundEarth	<1	<1	34	<1	1.3
	MW21-20200627	06/27/20	SoundEarth	<1	<1	13	<1	0.49
	MW21-20201212	12/12/20	SoundEarth	<1	<1		<1	1.8
	MW21-20210625	06/25/21	SoundEarth	<1	<1	11	<1	0.86
	MW21-20211217	12/17/21	SoundEarth	<1	<0.5	12	<1	1.3
	MW21-20220609	06/09/22	SoundEarth	<1	<0.5	12	<1	1.9
	MW21-20221215	12/15/22	SoundEarth	<1	<0.5	12	<1	1.4
	MW21-20230623	06/23/23	SoundEarth	<1	<0.5	1.4	<1	2.0
	MW21-20231207	12/07/23	SoundEarth	<1	<0.5	4.5	<1	2.6
	MW21-20240627	06/27/24	SoundEarth	<1	<0.5	2.4	<1	1.9
	MW21-20241220	12/20/24	SoundEarth	<1	<0.5	11	<1	1.8
Commercial Worker Groundwater Remediation Level at the Property ⁽²⁾				120	12	1,600	NA	1.6
Roadway Excavation Worker Groundwater Remediation Level in ROWs ⁽²⁾				760	40	10,000	NA	9.9
MTCA Cleanup Level				5 ⁽³⁾	5 ⁽³⁾	16 ⁽⁴⁾	160 ⁽⁴⁾	0.2 ⁽³⁾

Table 2
Groundwater Analytical Results for CVOCs
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	PCE ⁽¹⁾ (µg/L)	TCE ⁽¹⁾ (µg/L)	cis-1-2-DCE ⁽¹⁾ (µg/L)	trans-1-2-DCE ⁽¹⁾ (µg/L)	Vinyl Chloride ⁽¹⁾ (µg/L)
MW22	MW22-20150506	05/06/15	SoundEarth	11	2.2	27	<1	<0.2
	MW22-20150804	08/04/15	SoundEarth	17	3.0	34	<1	<0.2
	MW22-20151208	12/08/15	SoundEarth	19	3.7	42	<1	<0.2
	MW22-20160308	03/08/16	SoundEarth	28	4.5	52	<1	0.35
	MW22-20160713	07/13/16	SoundEarth	<1	<1	5.5	<1	<0.2
	MW22-20161020	10/20/16	SoundEarth	<1	<1	6.7	<1	0.65
	MW22-20170126	01/26/17	SoundEarth	<1	<1	8.5	<1	0.51
	MW22-20170601	06/01/17	SoundEarth	<1	<1	10	<1	1.5
	MW22-20170923	09/23/17	SoundEarth	<1	<1	18	<1	1.4
	MW22-20171216	12/16/17	SoundEarth	<1	<1	22	<1	1.2
	MW22-20180310	03/10/18	SoundEarth	<1	<1	22	<1	1.3
	MW22-20180630	06/30/18	SoundEarth	<1	<1	28	<1	1.2
	MW22-20180922	09/22/18	SoundEarth	<1	<1	33	<1	0.90
	MW22-20181215	12/15/18	SoundEarth	<1	<1	37	<1	1.2
	MW22-20190615	06/15/19	SoundEarth	1.1	1.1	49	<1	1.0
	MW22-20191207	12/07/19	SoundEarth	1.3	1.3	48	<1	1.0
	MW22-20200627	06/27/20	SoundEarth	1.4	1.3	42	<1	0.99
	MW22-20201212	12/12/20	SoundEarth	<1	<1	44	<1	1.1
	MW22-20210625	06/25/21	SoundEarth	1.1	<1	43	<1	0.82
	MW22-20211217	12/17/21	SoundEarth	<1	0.51	52	<1	1.2
	MW22-20220609	06/09/22	SoundEarth	<1	<0.5	52	<1	1.3
	MW22-20221216	12/16/22	SoundEarth	<1	0.52	58	<1	1.1
	MW22-20230623	06/23/23	SoundEarth	<1	<0.5	21	<1	0.51
	MW22-20231207	12/07/23	SoundEarth	<1	<0.5	52	<1	1.6
	MW22-20240627	06/27/24	SoundEarth	<1	<0.5	46	<1	1.8
	MW22-20241220	12/20/24	SoundEarth	<1	<0.5	35	<1	2.4
MW23	MW23-20150507	05/07/15	SoundEarth	6.1	18	13	<1	<0.2
	MW23-20150804	08/04/15	SoundEarth	6.1	24	20	<1	0.20
	MW23-20151208	12/08/15	SoundEarth	3.8	16	120	<1	0.57
	MW23-20160308	03/08/16	SoundEarth	4.1	14	95	<1	0.64
	MW23-20160714	07/14/16	SoundEarth	<1	1.6	14	<1	2.2
	MW23-20161020	10/20/16	SoundEarth	<1	2.1	9.9	<1	0.48
	MW23-20170126	01/26/17	SoundEarth	<1	2.9	41	<1	1.4
	MW23-20170601	06/01/17	SoundEarth	<1	2.7	23	<1	0.74
	MW23-20170923	09/23/17	SoundEarth	<1	1.7	16	<1	0.50
	MW23-20171216	12/16/17	SoundEarth	<1	1.3	14	<1	0.51
	MW23-20180310	03/10/18	SoundEarth	<1	<1	20	<1	0.52
	MW23-20180630	06/30/18	SoundEarth	<1	<1	14	<1	0.53
	MW23-20180922	09/22/18	SoundEarth	<1	<1	16	<1	0.53
	MW23-20181215	12/15/18	SoundEarth	<1	<1	17	<1	<0.2
	MW23-20190615	06/15/19	SoundEarth	<1	<1	25	<1	0.72
	MW23-20191207	12/07/19	SoundEarth	<1	<1	38	<1	0.89
	MW23-20200627	06/27/20	SoundEarth	<1	<1	30	<1	0.76
	MW23-20201212	12/12/20	SoundEarth	<1	<1	30	<1	0.85
	MW23-20210625	06/25/21	SoundEarth	<1	<1	26	<1	0.97
	MW23-20211217	12/17/21	SoundEarth	<1	<0.5	15	<1	3.7
	Well not sampled 2022 or 2023, per Ecology							
	MW23-20240627	06/27/24	SoundEarth	<1	<0.5	5.5	<1	2.0
	MW23-20241219	12/19/24	SoundEarth	<1	<0.5	7.7	<1	1.8
MW24	MW24-20150506	05/06/15	SoundEarth	2.5	31	72	<1	0.26
	MW24-20150804	08/04/15	SoundEarth	5.5	28	75	<1	<0.2
	MW24-20151208	12/08/15	SoundEarth	11	28	54	<1	<0.2
	MW24-20160309	03/09/16	SoundEarth	11	23	45	<1	<0.2
	MW24-20160715	07/15/16	SoundEarth	<1	1.7	12	<1	<0.2
	MW98-20160715 (DUP)		SoundEarth	<1	1.8	12	<1	<0.2
	MW24-20161020	10/20/16	SoundEarth	<1	2.7	12	<1	0.26
	MW24-20170125	01/25/17	SoundEarth	<1	3.5	20	<1	0.81
	MW24-20170601	06/01/17	SoundEarth	1.1	4.8	35	<1	1.0
	MW24-20170924	09/24/17	SoundEarth	<1	1.8	33	<1	0.36
	MW24-20171216	12/16/17	SoundEarth	<1	1.3	30	<1	0.38
	MW24-20180310	03/10/18	SoundEarth	<1	<1	25	<1	0.36
	MW24-20180630	06/30/18	SoundEarth	1.5	1.9	41	<1	2.1
	MW24-20180922	09/22/18	SoundEarth	<1	<1	35	<1	0.37
	MW24-20181215	12/15/18	SoundEarth	<1	<1	43	<1	0.51
	MW24-20190615	06/15/19	SoundEarth	<1	<1	84	<1	1.0
	MW24-20191207	12/07/19	SoundEarth	<1	<1	83	<1	0.94
	MW24-20200627	06/27/20	SoundEarth	<1	<1	61	<1	0.76
	MW24-20201212	12/12/20	SoundEarth	<1	<1	45	<1	0.61
	MW24-20210625	06/25/21	SoundEarth	<1	<1	37	<1	0.67
	MW24-20211217	12/17/21	SoundEarth	<1	<0.5	46	<1	0.71
	MW24-20220609	06/09/22	SoundEarth	<1	<0.5	74	<1	1.1
	MW24-20221216	12/16/22	SoundEarth	<1	<0.5	64	<1	6.1
	MW24-20230623	06/23/23	SoundEarth	<1	<0.5	<1	<1	1.5
	MW24-20231207	12/07/23	SoundEarth	<1	<0.5	1.5	<1	2.0
	MW24-20240627	06/27/24	SoundEarth	<1	<0.5	1.4	<1	1.3
	MW24-20241220	12/20/24	SoundEarth	<1	0.72	1.6	<1	1.1
Commercial Worker Groundwater Remediation Level at the Property ⁽²⁾				120	12	1,600	NA	1.6
Roadway Excavation Worker Groundwater Remediation Level in ROWs ⁽²⁾				760	40	10,000	NA	9.9
MTCA Cleanup Level				5 ⁽³⁾	5 ⁽³⁾	16 ⁽³⁾	160 ⁽³⁾	0.2 ⁽³⁾



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Groundwater Analytical Results for CVOCs
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300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	PCE ⁽¹⁾ (µg/L)	TCE ⁽¹⁾ (µg/L)	cis-1-2-DCE ⁽¹⁾ (µg/L)	trans-1-2-DCE ⁽¹⁾ (µg/L)	Vinyl Chloride ⁽¹⁾ (µg/L)
MW25	MW25-20150507	05/07/15	SoundEarth	<1	68	5.2	<1	<0.2
	MW99-20150507 (DUP)			<1	69	5.3	<1	<0.2
	MW25-20150805	08/05/15	SoundEarth	3.0	75	7.9	<1	<0.2
	MW99-20150805 (DUP)			2.9	73	7.8	<1	<0.2
	MW25-20151209	12/09/15	SoundEarth	11	71	8.4	<1	<0.2
	MW99-20151209 (DUP)			11	72	8.3	<1	<0.2
	MW25-20160308	03/08/16	SoundEarth	24	50	12	<1	<0.2
	MW99-20160308 (DUP)			25	50	12	<1	<0.2
	MW25-20160713	07/13/16	SoundEarth	6.1	4.8	23	<1	0.70
	MW25-20161019	10/19/16	SoundEarth	1.8	5.1	15	<1	0.96
	MW99-20161019 (DUP)			1.7	5.0	16	<1	1.0
	MW25-20170125	01/25/17	SoundEarth	1.0	3.6	44	<1	0.89
	MW99-20170125 (DUP)			1.1	3.7	44	<1	0.92
	MW25-20170601	06/01/17	SoundEarth	<1	1.2	15	<1	0.31
	MW99-20170601 (DUP)			<1	1.3	15	<1	0.41
	MW25-20170923	09/23/17	SoundEarth	<1	<1	15	<1	0.40
	MW99-20170923 (DUP)			<1	<1	15	<1	0.34
	MW25-20171216	12/16/17	SoundEarth	<1	<1	23	<1	0.41
	MW99-20171216 (DUP)			<1	<1	23	<1	0.40
	MW25-20180310	03/10/18	SoundEarth	<1	<1	25	<1	0.32
	MW99-20180310 (DUP)			<1	<1	25	<1	0.30
	MW25-20180630	06/30/18	SoundEarth	<1	<1	31	<1	0.52
	MW99-20180630 (DUP)			<1	<1	32	<1	0.49
	MW25-20180922	09/22/18	SoundEarth	<1	<1	37	<1	0.46
	MW99-20180922 (DUP)			<1	<1	36	<1	0.51
	MW25-20181215	12/15/18	SoundEarth	<1	<1	40	<1	0.60
	MW99-20181215 (DUP)			<1	<1	39	<1	0.57
	MW25-20190615	06/15/19	SoundEarth	<1	<1	45	<1	0.54
	MW99-20190615 (DUP)			<1	<1	43	<1	0.50
	MW25-20191207	12/07/19	SoundEarth	<1	<1	40	<1	0.63
	MW99-20191207 (DUP)			<1	<1	36	<1	0.58
	MW25-20200627	6/27/2020	SoundEarth	<1	<1	40	<1	0.73
	MW99-20200627 (DUP)			<1	<1	37	<1	0.67
	MW25-20201212	12/12/20	SoundEarth	<1	<1	35	<1	0.43
	MW99-20201212 (DUP)			<1	<1	34	<1	0.43
	MW25-20210625	06/25/21	SoundEarth	<1	<1	48	<1	0.79
	MW99-20210625 (DUP)			<1	<1	47	<1	0.90
	MW25-20211217	12/17/21	SoundEarth	<1	0.52	13	<1	3.6
	MW99-20211217 (DUP)			<1	0.53	13	<1	3.7
	MW25-20220609	06/09/22	SoundEarth	1.3	1.3	9.6	<1	4.1
	MW99-20220609 (DUP)			1.3	1.3	9.5	<1	4.0
	MW25-20221216	12/16/22	SoundEarth	3.2	3.8	5.9	<1	2.2
	MW99-20221216 (DUP)			3.0	3.7	5.7	<1	2.1
	MW25-20230623	06/23/23	SoundEarth	2.7	3.2	2.2	<1	1.3
	MW99-20230623 (DUP)			2.8	3.4	2.3	<1	1.3
	MW25-20231207	12/07/23	SoundEarth	4.1	5.5	3.4	<1	1.9
	MW99-20231207 (DUP)			3.9	5.4	3.4	<1	1.9
	MW25-20240627	06/27/24	SoundEarth	3.8	6.6	4.3	<1	1.8
	MW99-20240627 (DUP)			3.2	5.5	3.4	<1	1.5
	MW25-20241219	12/19/24	SoundEarth	4.5	8.1	5.2	<1	1.5
	MW99-20241219 (DUP)			4.3	7.8	5.1	<1	1.6
IW04	IW04-20150508	05/08/15	SoundEarth	<1	15	1.9	<1	<0.2
	IW04-20160309	03/09/16	SoundEarth	<1	2.5	11	<1	<0.2
	IW04-20160714	07/14/16	SoundEarth	<1	<1	<1	<1	<0.2
	IW04-20161021	10/21/16	SoundEarth	<1	<1	1.8	<1	<0.2
	IW04-20170126	01/26/17	SoundEarth	<1	1.1	4.8	<1	<0.2
	IW04-20170601	06/01/17	SoundEarth	<1	1.2	12	<1	0.21
	IW04-20170923	09/23/17	SoundEarth	<1	<1	14	<1	0.22
	IW04-20171216	12/16/17	SoundEarth	<1	<1	19	<1	0.54
	IW04-20180310	03/10/18	SoundEarth	<1	<1	9.0	<1	0.65
	IW04-20180630	06/30/18	SoundEarth	<1	<1	5.3	<1	0.68
	IW04-20180922	09/22/18	SoundEarth	<1	<1	<1	<1	<0.2
	IW04-20181215	12/15/18	SoundEarth	<1	<1	1.9	<1	1.6
	IW04-20190615	06/15/19	SoundEarth	<1	<1	1.7	<1	1.0
	IW04-20191207	12/07/19	SoundEarth	<1	<1	1.4	<1	1.1
	IW04-20200627	06/27/20	SoundEarth	<1	<1	1.1	<1	0.77
	IW04-20201212	12/12/20	SoundEarth	<1	<1	1.0	<1	0.64
	IW04-20210625	06/25/21	SoundEarth	<1	<1	<1	<1	0.46
	IW04-20211217	12/17/21	SoundEarth	<1	<0.5	1.1	<1	0.34
	IW04-20220609	06/09/22	SoundEarth	<1	<0.5	<1	<1	0.34
	IW04-20221215	12/15/22	SoundEarth	<1	<0.5	<1	<1	0.28
	IW04-20230622	06/22/23	SoundEarth	<1	<0.5	<1	<1	0.26
	IW04-20231207	12/07/23	SoundEarth	<1	<0.5	<1	<1	<0.2
	IW04-20240626	06/26/24	SoundEarth	<1	<0.5	<1	<1	0.20
	IW04-20241219	12/19/24	SoundEarth	<1	<0.5	<1	<1	<0.2
Commercial Worker Groundwater Remediation Level at the Property ⁽²⁾				120	12	1,600	NA	1.6
Roadway Excavation Worker Groundwater Remediation Level in ROWs ⁽²⁾				760	40	10,000	NA	9.9
MTCA Cleanup Level				5 ⁽³⁾	5 ⁽³⁾	16 ⁽³⁾	160 ⁽³⁾	0.2 ⁽³⁾

Table 2
Groundwater Analytical Results for CVOCs
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	PCE ⁽¹⁾ (µg/L)	TCE ⁽¹⁾ (µg/L)	cis-1-2-DCE ⁽¹⁾ (µg/L)	trans-1-2-DCE ⁽¹⁾ (µg/L)	Vinyl Chloride ⁽¹⁾ (µg/L)
IW06	IW06-20150507	05/07/15	SoundEarth	6.3	13	<1	<1	<0.2
	IW06-20180310	03/10/18	SoundEarth	<1	<1	1.6	<1	<0.2
	IW06-20180630	06/30/18	SoundEarth	<1	<1	<1	<1	<0.2
	IW06-20181215	12/15/18	SoundEarth	1.0	<1	<1	<1	<0.2
	IW06-20190615	06/15/19	SoundEarth	1.7	<1	<1	<1	<0.2
	IW06-20191207	12/07/19	SoundEarth	1.4	<1	<1	<1	<0.2
	IW06-20200627	06/27/20	SoundEarth	<1	<1	5.2	<1	<0.2
	IW06-20201212	12/12/20	SoundEarth	<1	<1	3.3	<1	<0.2
	IW06-20210625	06/25/21	SoundEarth	<1	<1	3.6	<1	0.59
	IW06-20211217	12/17/21	SoundEarth	<1	<0.5	<1	<1	<0.2
	IW06-20220609	06/09/22	SoundEarth	<1	<0.5	<1	<1	<0.02
	IW06-20221215	12/15/22	SoundEarth	1.7	<0.5	<1	<1	<0.02
	IW06-20230622	06/22/23	SoundEarth	1.1	<0.5	<1	<1	<0.02
	IW06-20231207	12/07/23	SoundEarth	1.4	<0.5	<1	<1	<0.2
	IW06-20240626	06/26/24	SoundEarth	1.3	<0.5	<1	<1	<0.2
Well not sampled 2024 Q4, per Ecology								
IW50	IW50-20150803	08/03/15	SoundEarth	4.1	8.1	44	<1	<0.2
	IW50-20151208	12/08/15	SoundEarth	<1	<1	140	<1	1.8
	IW50-20160309	03/09/16	SoundEarth	<1	<1	110	<1	1.9
	IW50-20160715	07/15/16	SoundEarth	3.7	<1	38	<1	2.5
	IW50-20161021	10/21/16	SoundEarth	3.7	<1	23	<1	1.0
	IW50-20170126	01/26/17	SoundEarth	13	2.1	34	<1	0.74
	IW50-20170602	06/02/17	SoundEarth	<1	<1	81	<1	0.95
	IW50-20170924	09/24/17	SoundEarth	<1	<1	26	<1	2.6
	IW50-20171216	12/16/17	SoundEarth	<1	<1	15	<1	2.2
	IW50-20180310	03/10/18	SoundEarth	<1	<1	8.0	<1	3.6
	IW50-20180630	06/30/18	SoundEarth	<1	<1	4.5	<1	2.5
	IW50-20180922	09/22/18	SoundEarth	<1	<1	5.1	<1	2.9
	IW50-20181215	12/15/18	SoundEarth	1.6	<1	15	<1	4.5
	IW50-20190615	06/15/19	SoundEarth	5.2	2.0	54	<1	7.1
	IW50-20191207	12/07/19	SoundEarth	4.5	1.6	55	<1	7.4
	IW50-20200627	06/27/20	SoundEarth	3.9	<1	2.7	<1	1.1
	IW50-20201212	12/12/20	SoundEarth	<1	<1	<1	<1	<0.2
	IW50-20210625	06/25/21	SoundEarth	3.7	<1	1.7	<1	0.85
	IW50-20211217	12/17/21	SoundEarth	<1	<0.5	2.9	<1	0.80
	IW50-20220609	06/09/22	SoundEarth	<1	<0.5	6.9	<1	2.4
	IW50-20221216	12/16/22	SoundEarth	4.7	2.1	35	<1	6.4
	IW50-20230623	06/23/23	SoundEarth	1.8	0.79	18	<1	5.8
	IW50-20231207	12/07/23	SoundEarth	7.6	3.1	22	<1	5.4
	IW50-20240627	06/27/24	SoundEarth	10	3.9	24	<1	4.7
	IW50-20241220	12/20/24	SoundEarth	<1	<0.5	1.2	<1	0.86
IW61	IW61-20151208	12/08/15	SoundEarth	10	2.8	120	<1	0.86
	IW61-20160309	03/09/16	SoundEarth	23	4.2	140	<1	1.7
	IW61-20160714	07/14/16	SoundEarth	8.3	1.6	24	<1	1.6
	IW61-20161021	10/21/16	SoundEarth	9.5	2.8	34	<1	0.96
	IW61-20170126	01/26/17	SoundEarth	8.3	2.9	32	<1	0.96
	IW61-20170602	06/02/17	SoundEarth	9.9	3.4	41	<1	1.3
	IW61-20170923	09/23/17	SoundEarth	12	3.2	45	<1	1.2
	IW61-20171216	12/16/17	SoundEarth	15	3.2	65	<1	1.2
	IW61-20180310	03/10/18	SoundEarth	15	2.7	71	<1	1.1
	IW61-20180323*	03/23/18	SoundEarth	15	2.9	82	<1	1.3
	IW61-20180630	06/30/18	SoundEarth	16	2.5	67	<1	1.7
	IW61-20180922	09/22/18	SoundEarth	13	2.1	63	<1	1.8
	IW61-20181215	12/15/18	SoundEarth	15	2.1	58	<1	2.0
	IW61-20190615	06/15/19	SoundEarth	13	2.4	71	<1	2.9
	IW61-20191207	12/07/19	SoundEarth	6.8	1.7	65	<1	4.0
	IW61-20200627	06/27/20	SoundEarth	5.3	1.1	63	<1	4.5
	IW61-20201212	12/12/20	SoundEarth	<1	<1	30	<1	4.1 ^{CA}
	IW61-20210625	06/25/21	SoundEarth	<1	<1	25	<20	1.8
	IW61-20211217	12/17/21	SoundEarth	<1	<0.5	41	<1	3.8
	IW61-20220609	06/09/22	SoundEarth	<1	<0.5	25	<1	3.2
	IW61-20221216	12/16/22	SoundEarth	<1	<0.5	57	<1	2.7
	IW61-20230623	06/23/23	SoundEarth	<1	<0.5	36	<1	2.7
	IW61-20231207	12/07/23	SoundEarth	<1	<0.5	41	<1	3.8
	IW61-20240627	06/27/24	SoundEarth	<1	<0.5	46	<1	3.0
	IW61-20241220	12/20/24	SoundEarth	<1	<0.5	43	<1	3.1
Commercial Worker Groundwater Remediation Level at the Property ⁽²⁾				120	12	1,600	NA	1.6
Roadway Excavation Worker Groundwater Remediation Level in ROWs ⁽²⁾				760	40	10,000	NA	9.9
MTCA Cleanup Level				5 ⁽³⁾	5 ⁽³⁾	16 ⁽³⁾	160 ⁽³⁾	0.2 ⁽³⁾

Table 2
Groundwater Analytical Results for CVOCs
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	PCE ⁽¹⁾ (µg/L)	TCE ⁽¹⁾ (µg/L)	cis-1-2-DCE ⁽¹⁾ (µg/L)	trans-1-2-DCE ⁽¹⁾ (µg/L)	Vinyl Chloride ⁽¹⁾ (µg/L)
IW91	IW91-20150506	05/06/15	SoundEarth	<1	<1	<1	<1	<0.2
	IW91-20150804	08/04/15	SoundEarth	<1	<1	<1	<1	<0.2
	IW91-20151208	12/08/15	SoundEarth	<1	<1	<1	<1	<0.2
	IW91-20160309	03/09/16	SoundEarth	<1	<1	<1	<1	<0.2
	IW91-20160714	07/14/16	SoundEarth	<1	<1	<1	<1	<0.2
	IW91-20161020	10/20/16	SoundEarth	<1	<1	<1	<1	<0.2
	IW91-20170126	01/26/17	SoundEarth	<1	<1	<1	<1	<0.2
	IW91-20170601	06/01/17	SoundEarth	<1	<1	<1	<1	<0.2
	IW91-20170923	09/23/17	SoundEarth	<1	<1	<1	<1	<0.2
	IW91-20171216	12/16/17	SoundEarth	<1	<1	<1	<1	<0.2
	IW91-20180310	03/10/18	SoundEarth	<1	<1	<1	<1	<0.2
	IW91-20180630	06/30/18	SoundEarth	<1	<1	<1	<1	<0.2
	IW91-20180922	09/22/18	SoundEarth	<1	<1	<1	<1	<0.2
	IW91-20181215	12/15/18	SoundEarth	<1	<1	<1	<1	<0.2
	IW91-20190615	06/15/19	SoundEarth	<1	<1	<1	<1	<0.2
	IW91-20191207	12/07/19	SoundEarth	<1	<1	<1	<1	<0.2
	IW91-20200627	06/27/20	SoundEarth	<1	<1	<1	<1	<0.2
	IW91-20201212	12/12/20	SoundEarth	<1	<1	<1	<1	<0.2
	IW91-20210625	06/25/21	SoundEarth	<1	<1	<1	<1	<0.2
	IW91-20211217	12/17/21	SoundEarth	<1	<0.5	<1	<2	<0.2
Well not sampled 2022, 2023, or 2024, per Ecology								
Boren Avenue North								
MW04	MW04-20110527	05/27/11	SoundEarth	<1	15	<1	<1	<0.2
	MW04-20111012	10/12/11	SoundEarth	<1	15	<1	<1	<0.2
	MW04-20130909	09/09/13	SoundEarth	<1	22	15	<1	<0.2
	MW04-20150508	05/08/15	SoundEarth	1.4	13	4.2	<1	<0.2
	MW04-20150806	08/06/15	SoundEarth	<1	6.9	1.0	<1	<0.2
	MW04-20151209	12/09/15	SoundEarth	<1	9.2	<1	<1	<0.2
	MW04-20160308	03/08/16	SoundEarth	<1	9.6	1.1	<1	<0.2
	MW04-20160713	07/13/16	SoundEarth	1.0	8.9	1.3	<1	<0.2
	MW04-20161019	10/19/16	SoundEarth	<1	5.5	<1	<1	<0.2
	MW04-20170124	01/24/17	SoundEarth	<1	9.4	<1	<1	<0.2
	MW04-20170531	05/31/17	SoundEarth	<1	9.3	<1	<1	<0.2
	MW04-20170921	09/21/17	SoundEarth	<1	5.7	3.2	<1	<0.2
	MW04-20171214	12/14/17	SoundEarth	<1	8.0	2.4	<1	<0.2
	MW04-20180309	03/09/18	SoundEarth	<1	8.6	<1	<1	<0.2
	MW04-20180629	06/29/18	SoundEarth	<1	9.4	<1	<1	<0.2
	MW04-20180920	09/20/18	SoundEarth	<1	9.4	<1	<1	<0.2
	MW04-20181214	12/14/18	SoundEarth	<1	10	<1	<1	<0.2
	MW04-20190614	06/14/19	SoundEarth	<1	11	<1	<1	<0.2
	MW04-20191205	12/05/19	SoundEarth	<1	11	<1	<1	<0.2
	MW04-20200626	06/26/20	SoundEarth	<1	10	<1	<1	<0.2
	MW04-20201211	12/11/20	SoundEarth	<1	9.2	<1	<1	<0.2
	MW04-20210624	06/24/21	SoundEarth	<1	11	<1	<1	<0.2
	MW04-20211215	12/15/21	SoundEarth	<1	7.8	<1	<1	<0.2
	MW04-20220607	06/07/22	SoundEarth	<1	9.2	<1	<1	<0.02
	MW04-20221214	12/14/22	SoundEarth	<1	8.2	<1	<1	<0.02
	MW04-20230622	06/22/23	SoundEarth	<1	9.3	<1	<1	<0.02
	MW04-20231208	12/08/23	SoundEarth	<1	9.4	<1	<1	<0.2
	MW04-20240626	06/26/24	SoundEarth	<1	8.6	<1	<1	<0.2
	MW04-20241218	12/18/24	SoundEarth	<1	9.8	<1	<1	<0.2
MW05	MW05-20110527	05/27/11	SoundEarth	39	16	1.8	<1	<0.2
	MW05-20111012	10/12/11	SoundEarth	29	14	1.5	<1	<0.2
	MW05-20130910	09/10/13	SoundEarth	21	13	1.9	<1	<0.2
DECOMMISSIONED 2015								
Commercial Worker Groundwater Remediation Level at the Property ⁽²⁾				120	12	1,600	NA	1.6
Roadway Excavation Worker Groundwater Remediation Level in ROWs ⁽²⁾				760	40	10,000	NA	9.9
MTCA Cleanup Level				5 ⁽³⁾	5 ⁽³⁾	16 ⁽³⁾	160 ⁽³⁾	0.2 ⁽³⁾

Table 2
Groundwater Analytical Results for CVOCs
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	PCE ⁽¹⁾ (µg/L)	TCE ⁽¹⁾ (µg/L)	cis-1-2-DCE ⁽¹⁾ (µg/L)	trans-1-2-DCE ⁽¹⁾ (µg/L)	Vinyl Chloride ⁽¹⁾ (µg/L)
MW07	MW07-20110531	05/31/11	SoundEarth	1.4	12	2.3	<1	<0.2
	MW07-20111012	10/12/11	SoundEarth	2.2	11	1.8	<1	<0.2
	MW07-20130909	09/09/13	SoundEarth	1.5	33	5.4	<1	<0.2
	MW07-20150508	05/08/15	SoundEarth	2.5	15	4.8	<1	<0.2
	MW07-20150805	08/05/15	SoundEarth	1.8	12	3.2	<1	<0.2
	MW07-20151209	12/09/15	SoundEarth	2.3	14	4.1	<1	<0.2
	MW07-20160308	03/08/16	SoundEarth	2.6	13	3.8	<1	<0.2
	MW07-20160713	07/13/16	SoundEarth	3.0	18	5.7	<1	<0.2
	MW07-20161019	10/19/16	SoundEarth	3.5	13	2.3	<1	<0.2
	MW07-20170124	01/24/17	SoundEarth	4.8	8.1	<1	<1	<0.2
	MW07-20170531	05/31/17	SoundEarth	4.7	8.6	<1	<1	<0.2
	MW07-20180308	03/08/18	SoundEarth	2.6	11	1.1	<1	<0.2
	MW07-20180629	06/29/18	SoundEarth	3.3	7.3	<1	<1	<0.2
	MW07-20180920	09/20/18	SoundEarth	2.8	6.0	<1	<1	<0.2
	MW07-20181214	12/14/18	SoundEarth	3.3	6.7	<1	<1	<0.2
	MW07-20190614	06/14/19	SoundEarth	3.9	5.9	<1	<1	<0.2
	MW07-20191205	12/05/19	SoundEarth	3.3	5.9	<1	<1	<0.2
	MW07-20200630	06/30/20	SoundEarth	<1	5.8	<1	<1	<0.2
	MW07-20201210	12/10/20	SoundEarth	1.7	18	3.2	<1	<0.2
	MW07-20210623	06/23/21	SoundEarth	1.8	15	3.4	<1	<0.2
	MW07-20211215	12/15/21	SoundEarth	2.0	7.2	<1	<1	<0.2
	MW07-20220607	06/07/22	SoundEarth	2.9	6.5	<1	<1	<0.02
	MW07-20221214	12/14/22	SoundEarth	2.5	5.9	<1	<1	<0.02
	MW07-20230622	06/22/23	SoundEarth	2.4	5.1	<1	<1	<0.02
	MW07-20231208	12/08/23	SoundEarth	2.1	4.8	<1	<1	<0.2
	MW07-20240626	06/26/24	SoundEarth	1.7	4.2	<1	<1	<0.2
	MW07-20241218	12/18/24	SoundEarth	2.3	5.7	<1	<1	<0.2
MW13	MW13-20111020	10/20/11	SoundEarth	5.1	1.2	<1	<1	<0.2
	MW13-20130910	09/10/13	SoundEarth	11	1.4	<1	<1	<0.2
	MW13-20150511	05/11/15	SoundEarth	4.6 ^{cf}	1.7 ^{cf}	<1 ^{cf}	<1 ^{cf}	<0.2 ^{cf}
	MW13-20150805	08/05/15	SoundEarth	5.4	2.3	<1	<1	<0.2
	MW13-20151215	12/15/15	SoundEarth	5.6	1.6	<1	<1	<0.2
	MW13-20160307	03/07/16	SoundEarth	6.6	1.6	<1	<1	<0.2
	MW13-20160712	07/12/16	SoundEarth	6.5	1.6	<1	<1	<0.2
	MW13-20161019	10/19/16	SoundEarth	10	2.2	<1	<1	<0.2
	MW13-20170124	01/24/17	SoundEarth	6.4	1.0	<1	<1	<0.2
	MW13-20170531	05/31/17	SoundEarth	10	1.5	<1	<1	<0.2
	MW13-20170921	09/21/17	SoundEarth	8.4	1.8	<1	<1	<0.2
	MW13-20171214	12/14/17	SoundEarth	5.2	1.4	<1	<1	<0.2
	MW13-20180308	03/08/18	SoundEarth	8.0	1.4	<1	<1	<0.2
	MW13-20180629	06/29/18	SoundEarth	4.4	<1	<1	<1	<0.2
	MW13-20180920	09/20/18	SoundEarth	6.5	1.3	<1	<1	<0.2
	MW13-20181214	12/14/18	SoundEarth	7.8	1.4	<1	<1	<0.2
	MW13-20190614	06/14/19	SoundEarth	7.0	1.1	<1	<1	<0.2
	MW13-20191205	12/05/19	SoundEarth	7.7	1.1	<1	<1	<0.2
	MW13-20200626	06/26/20	SoundEarth	9.1	1.8	<1	<1	<0.2
	MW13-20201210	12/10/20	SoundEarth	7.2	1.6	<1	<1	<0.2
	MW13-20210623	06/23/21	SoundEarth	4.1	<1	<1	<1	<0.2
	MW13-20211216	12/16/21	SoundEarth	5.2	1.0	<1	<1	<0.2
	MW13-20220608	06/08/22	SoundEarth	5.0	0.86	<1	<1	<0.02
	MW13-20221214	12/14/22	SoundEarth	4.8	0.57	<1	<1	<0.02
	MW13-20230622	06/22/23	SoundEarth	4.3	<0.5	<1	<1	<0.02
	MW13-20231206	12/06/23	SoundEarth	5.2	0.67	<1	<1	<0.2
	MW13-20240626	06/26/24	SoundEarth	4.7	<0.5	<1	<1	<0.2
	MW13-20241218	12/18/24	SoundEarth	4.4	<0.5	<1	<1	<0.2
MW27	MW27-20151210	12/10/15	SoundEarth	<1	21	2.5	<1	<0.2
	MW27-20160307	03/07/16	SoundEarth	<1	21	3.8	<1	<0.2
	MW27-20160713	07/13/16	SoundEarth	<1	18	4.5	<1	<0.2
	MW27-20161019	10/19/16	SoundEarth	<1	23	4.8	<1	<0.2
	MW27-20170124	01/24/17	SoundEarth	<1	33	13	<1	<0.2
	MW27-20170531	05/31/17	SoundEarth	<1	18	5.5	<1	<0.2
	MW27-20170921	09/21/17	SoundEarth	<1	16	4.0	<1	<0.2
	MW27-20171214	12/14/17	SoundEarth	<1	81	4.4	<1	<0.2
	MW27-20171229	12/29/17	SoundEarth	<1	60	3.5	<1	<0.2
	MW27-20180308	03/08/18	SoundEarth	<1	13	<1	<1	<0.2
	MW27-20180628	06/28/18	SoundEarth	<1	37	3.4	<1	<0.2
	MW27-20180920	09/20/18	SoundEarth	<1	21	3.7	<1	<0.2
	MW27-20181214	12/14/18	SoundEarth	<1	17	4.3	<1	<0.2
	MW27-20190614	06/14/19	SoundEarth	<1	14	2.3	<1	<0.2
	MW27-20191205	12/05/19	SoundEarth	<1	15	2.2	<1	<0.2
	MW27-20200626	06/26/20	SoundEarth	<1	30	2.9	<1	<0.2
	MW27-20201210	12/10/20	SoundEarth	<1	69	3.7	<1	<0.2
	MW27-20210623	06/23/21	SoundEarth	<1	80	4.3	<1	<0.2
	MW27-20211215	12/15/21	SoundEarth	<1	28	8.2	<1	<0.2
	MW27-20220608	06/08/22	SoundEarth	<1	16	2.7	<1	<0.02
	MW27-20221215	12/15/22	SoundEarth	<1	16	4.6	<1	<0.02
	MW27-20230621	06/21/23	SoundEarth	<1	15	5.3	<1	<0.02
	MW27-20231206	12/06/23	SoundEarth	<1	4.5	<1	<1	<0.2
	MW27-20240626	06/26/24	SoundEarth	<1	20	1.5	<1	<0.2
	MW27-20241217	12/17/24	SoundEarth	<1	12	1.4	<1	<0.2
Commercial Worker Groundwater Remediation Level at the Property ⁽²⁾				120	12	1,600	NA	1.6
Roadway Excavation Worker Groundwater Remediation Level in ROWs ⁽²⁾				760	40	10,000	NA	9.9
MTCA Cleanup Level				5 ⁽³⁾	5 ⁽³⁾	16 ⁽⁴⁾	160 ⁽⁴⁾	0.2 ⁽³⁾

Table 2
Groundwater Analytical Results for CVOCs
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	PCE ⁽¹⁾ (µg/L)	TCE ⁽¹⁾ (µg/L)	cis-1-2-DCE ⁽¹⁾ (µg/L)	trans-1-2-DCE ⁽¹⁾ (µg/L)	Vinyl Chloride ⁽¹⁾ (µg/L)
MW31	MW31-20191009	10/09/19	SoundEarth	<1	1.8	<1	<1	<0.2
	MW31-20191205	12/05/19	SoundEarth	<1	3.3	<1	<1	<0.2
	MW31-20200701	07/01/20	SoundEarth	<1	12	<1	<1	<0.2
	MW31-20201211	12/11/20	SoundEarth	<1	17	<1	<1	<0.2
	MW31-20210624	06/24/21	SoundEarth	<1	5.0	<1	<1	<0.2
	MW31-20211215	12/15/21	SoundEarth	<1	6.3	<1	<1	<0.2
	MW31-20220607	06/07/22	SoundEarth	<1	4.2	<1	<1	<0.02
	MW31-20221214	12/14/22	SoundEarth	<1	3.5	<1	<1	<0.02
	MW31-20230621	06/21/23	SoundEarth	<1	4.1	<1	<1	<0.02
	MW31-20231206	12/06/23	SoundEarth	<1	2.6	<1	<1	<0.2
	MW31-20240626	06/26/24	SoundEarth	<1	4.3	<1	<1	<0.2
Well not sampled 2024 Q4, per Ecology								
Terry Avenue North								
MW15	MW15-20121211	12/11/12	SoundEarth	<1	8.2	<1	<1	<0.2
	MW15-20121221	12/21/12	SoundEarth	<1	7.2	<1	<1	<0.2
	MW15-20130910	09/10/13	SoundEarth	<1	8.6	<1	<1	<0.2
	MW15-20150508	05/08/15	SoundEarth	<1	6.5	<1	<1	<0.2
	MW15-20150805	08/05/15	SoundEarth	<1	5.3	<1	<1	<0.2
	MW15-20151209	12/09/15	SoundEarth	<1	6.8	<1	<1	<0.2
	MW15-20160308	03/08/16	SoundEarth	<1	6.7	<1	<1	<0.2
	MW15-20160713	07/13/16	SoundEarth	<1	5.8	<1	<1	<0.2
	MW15-20161018	10/18/16	SoundEarth	<1	5.3	<1	<1	<0.2
	MW15-20170125	01/25/17	SoundEarth	<1	7.4	<1	<1	<0.2
	MW15-20170531	05/31/17	SoundEarth	<1	7.9	<1	<1	<0.2
	MW15-20170922	09/22/17	SoundEarth	<1	3.9	<1	<1	<0.2
	MW15-20171215	12/15/17	SoundEarth	<1	3.0	<1	<1	<0.2
	MW15-20180309	03/09/18	SoundEarth	<1	3.3	<1	<1	<0.2
	MW15-20180629	06/29/18	SoundEarth	<1	5.1	<1	<1	<0.2
	MW15-20180920	09/20/18	SoundEarth	<1	6.9	<1	<1	<0.2
	MW15-20181214	12/14/18	SoundEarth	<1	7.0	<1	<1	<0.2
	MW15-20190613	06/13/19	SoundEarth	<1	6.8	<1	<1	<0.2
	MW15-20191205	12/05/19	SoundEarth	<1	4.9	<1	<1	<0.2
	MW15-20200626	06/26/20	SoundEarth	<1	1.2	<1	<1	<0.2
	MW15-20201211	12/11/20	SoundEarth	<1	<1	<1	<1	<0.2
WELL DAMAGED 2021								
MW34	MW34-20211216	12/16/21	SoundEarth	<1	5.3	<1	<1	<0.2
	MW34-20220607	06/07/22	SoundEarth	<1	5.9	<1	<1	<0.02
	MW34-20221214	12/14/22	SoundEarth	<1	5.2	<1	<1	<0.02
	MW34-20230621	06/21/23	SoundEarth	<1	4.8	<1	<1	<0.02
	MW34-20231206	12/06/23	SoundEarth	<1	6.4	<1	<1	<0.2
Well not sampled 2024, per Ecology								
Thomas Street								
MW14	MW14-20111020	10/20/11	SoundEarth	<1	<1	<1	<1	<0.2
	MW14-20130911	09/11/13	SoundEarth	<1	<1	<1	<1	<0.2
DECOMMISSIONED 2013								
MW16	MW16-20121211	12/11/12	SoundEarth	16	12	220	<1	0.69
	MW16-20130911	09/11/13	SoundEarth	6.4	5.0	610	<1	1.9
	MW16-20150508	05/08/15	SoundEarth	7.5	7.6	640	<1	2.8
	MW16-20150805	08/05/15	SoundEarth	7.8	7.3	550	<1	2.4
	MW16-20151210	12/10/15	SoundEarth	5.3	4.5	510	<1	3.2
	MW16-20160308	03/08/16	SoundEarth	3.7	2.0	190	<1	1.3
	MW16-20160712	07/12/16	SoundEarth	<1	<1	160	<1	2.0
	MW16-20161019	10/19/16	SoundEarth	5.0	5.4	170	<1	1.2
	MW16-20170125	01/25/17	SoundEarth	6.4	6.8	220	<1	0.98
	MW16-20170531	05/31/17	SoundEarth	5.7	4.4	100	<1	0.49
	MW16-20170922	09/22/17	SoundEarth	5.4	5.2	78	<1	0.40
	MW16-20171229	12/29/17	SoundEarth	7.2	6.4	150	<1	0.89
	MW16-20180309	03/09/18	SoundEarth	7.3	5.5	80	<1	0.35
WELL DAMAGED 2018								
Commercial Worker Groundwater Remediation Level at the Property ⁽³⁾				120	12	1,600	NA	1.6
Roadway Excavation Worker Groundwater Remediation Level in ROWs ⁽²⁾				760	40	10,000	NA	9.9
MTCA Cleanup Level				5 ⁽³⁾	5 ⁽³⁾	16 ⁽⁴⁾	160 ⁽⁴⁾	0.2 ⁽³⁾

Table 2
Groundwater Analytical Results for CVOCs
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	PCE ⁽¹⁾ (µg/L)	TCE ⁽¹⁾ (µg/L)	cis-1-2-DCE ⁽¹⁾ (µg/L)	trans-1-2-DCE ⁽¹⁾ (µg/L)	Vinyl Chloride ⁽¹⁾ (µg/L)
MW28	MW28-20190315	03/15/19	SoundEarth	7.7	4.7	67	<1	0.47
	MW28-20190613	06/13/19	SoundEarth	9.0	5.7	80	<1	0.35
	MW28-20191009	10/09/19	SoundEarth	8.7	6.1	72	<1	0.31
	MW28-20191204	12/04/19	SoundEarth	8.4	4.9	52	<1	0.27
	MW28-20200626	06/26/20	SoundEarth	9.1	5.1	22	<1	<0.2
	MW28-20201211	12/11/20	SoundEarth	8.3	4.9	19	<1	<0.2
	MW28-20210521	05/21/21	SoundEarth	9.2	4.3	17	<1	<0.2
	MW28-20210623	06/23/21	SoundEarth	7.0	3.5	14	<1	<0.2
	MW28-20210817	08/17/21	SoundEarth	7.6	3.9	18	<1	<0.2
	MW28-20210921	09/21/21	SoundEarth	7.5	3.4	15	<1	0.10
	MW28-20211216	12/16/21	SoundEarth	5.2	2.8	17	<1	<0.2
	MW28-20220609	06/09/22	SoundEarth	2.7	1.4	23	<1	0.082
	MW28-20221215	12/15/22	SoundEarth	2.9	1.2	17	<1	0.067
	MW28-20230621	06/21/23	SoundEarth	<1	<0.5	5.6	<1	<0.02
MW01	MW28-20231204	12/04/23	SoundEarth	1.6	1.2	10	<1	<0.2
	MW28-20240624	06/24/24	SoundEarth	1.1	1.1	18	<1	<0.2
	MW28-20241216	12/16/24	SoundEarth	1.3	0.89	16	<1	<0.2
Fairview Avenue North								
MW-C	MW-C-20130911	09/11/13	SoundEarth	<1	<1	<1	<1	<0.2
Harrison Street								
MW01	MW01-20110525	05/25/11	SoundEarth	<1	<1	<1	<1	<0.2
	MW01-20111011	10/11/11	SoundEarth	<1	<1	<1	<1	<0.2
	MW01-20130910	09/10/13	SoundEarth	<1	1.4	<1	<1	<0.2
	MW01-20150806	08/06/15	SoundEarth	<1	<1	<1	<1	<0.2
	MW01-20160308	03/08/16	SoundEarth	<1	<1	<1	<1	<0.2
	MW01-20160712	07/12/16	SoundEarth	<1	<1	<1	<1	<0.2
	MW01-20161018	10/18/16	SoundEarth	<1	<1	<1	<1	<0.2
	MW01-20170124	01/24/17	SoundEarth	<1	<1	<1	<1	<0.2
	MW01-20170531	05/31/17	SoundEarth	<1	<1	<1	<1	<0.2
	MW01-20171214	12/14/17	SoundEarth	<1	<1	<1	<1	<0.2
	MW01-20180309	03/09/18	SoundEarth	<1	<1	<1	<1	<0.2
	MW01-20180628	06/28/18	SoundEarth	<1	1.1	<1	<1	<0.2
	MW01-20180920	09/20/18	SoundEarth	<1	<1	<1	<1	<0.2
	MW01-20181214	12/14/18	SoundEarth	<1	1.1	<1	<1	<0.2
	MW01-20190614	06/14/19	SoundEarth	<1	<1	<1	<1	<0.2
	MW01-20191205	12/05/19	SoundEarth	<1	<1	<1	<1	<0.2
	MW01-20200626	06/26/20	SoundEarth	<1	<1	<1	<1	<0.2
	MW01-20201211	12/11/20	SoundEarth	<1	<1	<1	<1	<0.2
	MW01-20210624	06/24/21	SoundEarth	<1	<1	<1	<1	<0.2
	MW01-20211215	12/15/21	SoundEarth	<1	0.50	<1	<1	<0.2
MW02	MW01-20220607	06/07/22	SoundEarth	<1	0.73	<1	<1	<0.02
	MW01-20221214	12/14/22	SoundEarth	<1	<0.5	<1	<1	<0.02
	MW01-20230621	06/21/23	SoundEarth	<1	<0.5	<1	<1	<0.02
	MW01-20231206	12/06/23	SoundEarth	<1	<0.5	<1	<1	<0.2
Well not sampled 2024, per Ecology								
MW02	MW02-20110525	05/25/11	SoundEarth	<1	5.2	<1	<1	<0.2
	MW02-20111011	10/11/11	SoundEarth	<1	3.0	<1	<1	<0.2
	MW02-20130911	09/11/13	SoundEarth	<1	3.6	<1	<1	<0.2
DECOMMISSIONED 2015								
MW03	MW03-20110527	05/27/11	SoundEarth	<1	<1	<1	<1	<0.2
	MW03-20111011	10/11/11	SoundEarth	<1	<1	<1	<1	<0.2
	MW03-20130911	09/11/13	SoundEarth	<1	<1	<1	<1	<0.2
DECOMMISSIONED 2015								
MW26	MW26-20151210	12/10/15	SoundEarth	<1	11	<1	<1	<0.2
	MW26-20160307	03/07/16	SoundEarth	<1	10	<1	<1	<0.2
	MW26-20160712	07/12/16	SoundEarth	<1	12	<1	<1	<0.2
	MW26-20161018	10/18/16	SoundEarth	<1	12	<1	<1	<0.2
	MW26-20170124	01/24/17	SoundEarth	<1	13	<1	<1	<0.2
	MW26-20170531	05/31/17	SoundEarth	<1	7.9	<1	<1	<0.2
	MW26-20170921	09/21/17	SoundEarth	<1	7.1	<1	<1	<0.2
	MW26-20171214	12/14/17	SoundEarth	<1	15	1.4	<1	<0.2
	MW26-20180309	03/09/18	SoundEarth	<1	6.0	<1	<1	<0.2
	MW26-20180628	06/28/18	SoundEarth	<1	18	<1	<1	<0.2
	MW26-20180920	09/20/18	SoundEarth	<1	18	<1	<1	<0.2
	MW26-20181214	12/14/18	SoundEarth	<1	20	<1	<1	<0.2
	MW26-20190614	06/14/19	SoundEarth	<1	20	<1	<1	<0.2
	MW26-20191205	12/05/19	SoundEarth	<1	13	<1	<1	<0.2
	MW26-20200626	06/26/20	SoundEarth	<1	13	<1	<1	<0.2
	MW26-20201211	12/11/20	SoundEarth	<1	4.0	<1	<1	<0.2
	MW26-20210624	06/24/21	SoundEarth	<1	6.6	<1	<1	<0.2
	MW26-20211215	12/15/21	SoundEarth	<1	7.9	<1	<1	<0.2
	MW26-20220608	06/08/22	SoundEarth	<1	3.5	<1	<1	0.038
	MW26-20221214	12/14/22	SoundEarth	<1	10	<1	<1	<0.2
	MW26-20230622	06/22/23	SoundEarth	<1	11	<1	<1	<0.02
	MW26-20231206	12/06/23	SoundEarth	<1	5.8	<1	<1	<0.2
	MW26-20240625	06/25/24	SoundEarth	<1	11	<1	<1	<0.2
	MW26-20241218	12/18/24	SoundEarth	<1	15	<1	<1	<0.2
Commercial Worker Groundwater Remediation Level at the Property ⁽²⁾				120	12	1,600	NA	1.6
Roadway Excavation Worker Groundwater Remediation Level in ROWs ⁽²⁾				760	40	10,000	NA	9.9
MTCA Cleanup Level				5 ⁽³⁾	5 ⁽³⁾	16 ⁽⁴⁾	160 ⁽⁴⁾	0.2 ⁽³⁾

Table 2
Groundwater Analytical Results for CVOs
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	PCE ⁽¹⁾ (µg/L)	TCE ⁽¹⁾ (µg/L)	cis-1-2-DCE ⁽¹⁾ (µg/L)	trans-1-2-DCE ⁽¹⁾ (µg/L)	Vinyl Chloride ⁽¹⁾ (µg/L)
MW32	MW32-20191009	10/09/19	SoundEarth	<1	<1	<1	<1	<0.2
	MW32-20191205	12/05/19	SoundEarth	<1	<1	<1	<1	<0.2
	MW32-20200626	06/26/20	SoundEarth	<1	<1	<1	<1	<0.2
	MW32-20201212	12/12/20	SoundEarth	<1	<1	<1	<1	<0.2
	MW32-20210624	06/24/21	SoundEarth	<1	<1	<1	<1	<0.2
	MW32-20211215	12/15/21	SoundEarth	<1	<0.5	<1	<1	<0.2
	MW32-20220607	06/07/22	SoundEarth	<1	<0.5	<1	<1	<0.02
	MW32-20221214	12/14/22	SoundEarth	<1	<0.5	<1	<1	<0.02
	MW32-20230621	06/21/23	SoundEarth	<1	<0.5	<1	<1	<0.02
	MW32-20231205	12/05/23	SoundEarth	<1	<0.5	<1	<1	<0.2
Well not sampled 2024, per Ecology								
MW33	MW33-20191009	10/09/19	SoundEarth	<1	<1	<1	<1	<0.2
	MW33-20191205	12/05/19	SoundEarth	<1	<1	<1	<1	<0.2
	--	06/26/20	SoundEarth	Well dry, unable to sample				
	--	12/10/20	SoundEarth	Well dry, unable to sample				
	MW33-20210624	06/24/21	SoundEarth	<1	<1	<1	<1	<0.2
	MW33-20211216	12/16/21	SoundEarth	<1	<0.5	<1	<1	<0.2
	MW33-20220607	06/07/22	SoundEarth	<1	<0.5	<1	<1	<0.02
	MW33-20221213	12/13/22	SoundEarth	<1	<0.5	<1	<1	<0.02
	MW33-20230620	06/20/23	SoundEarth	<1	<0.5	<1	<1	<0.02
	MW33-20231205	12/05/23	SoundEarth	<1	<0.5	<1	<1	<0.2
Well not sampled 2024, per Ecology								
SMW06	SMW06-20130910	09/10/13	SoundEarth	<1	<1	<1	<1	<0.2
Westlake Avenue North								
SMW09	SMW09-20130910	09/10/13	SoundEarth	<1	<1	<1	<1	<0.2
South-Adjoining Property								
MW29	MW29-20191008	10/08/19	SoundEarth	8.6	9.4	52	<1	0.64
	MW29-20191204	12/04/19	SoundEarth	16	12	26	<1	0.40
	MW29-20200626	06/26/20	SoundEarth	18	13	16	<1	0.20
	MW29-20201210	12/10/20	SoundEarth	18	13	18	<1	<0.2
	MW29-20210622	06/22/21	SoundEarth	14	11	16	<1	<0.2
	MW29-20211215	12/15/21	SoundEarth	15	12	14	<1	<0.2
	MW29-20220607	06/07/22	SoundEarth	20	15	10	<1	0.13
DECOMMISSIONED 2022								
MW30	MW30-20191008	10/08/19	SoundEarth	<1	3.6	24	<1	<0.2
	MW30-20191204	12/04/19	SoundEarth	<1	2.0	11	<1	<0.2
	MW30-20200626	06/26/20	SoundEarth	<1	1.0	3.6	<1	<0.2
	MW30-20201210	12/10/20	SoundEarth	<1	2.4	13	<1	<0.2
	MW30-20210623	06/23/21	SoundEarth	<1	2.0	7.4	<1	<0.2
	MW30-20211215	12/15/21	SoundEarth	<1	2.2	5.2	<1	<0.2
	MW30-20220606	06/06/22	SoundEarth	<1	2.3	3.5	<1	0.029
DECOMMISSIONED 2022								
ONNI-MW-4	ONNI-MW-4-20191208	12/08/19	SoundEarth	<1	<1	<1	<1	<0.2
	ONNI-MW-4-20200625	06/25/20	SoundEarth	<1	<1	<1	<1	<0.2
	ONNI-MW-4-20201210	12/10/20	SoundEarth	<1	<1	<1	<1	<0.2
	ONNI-MW-4-20210622	06/22/21	SoundEarth	<1	<1	<1	<1	<0.2
	ONNI-MW-4-20211215	12/15/21	SoundEarth	<1	<0.5	<1	<1	<0.2
DECOMMISSIONED 2022								
ONNI-MW-5	ONNI-MW-5-20191208	12/08/19	SoundEarth	<1	<1	<1	<1	0.28
	ONNI-MW-5-20200206	02/06/20	SoundEarth	<1	<1	<1	<1	<0.2
	ONNI-MW-5-20200625	06/25/20	SoundEarth	<1	<1	<1	<1	<0.2
	ONNI-MW-5-20201209	12/09/20	SoundEarth	<1	<1	<1	<1	<0.2
	ONNI-MW-5-20210623	06/23/21	SoundEarth	<1	<1	<1	<1	<0.2
	ONNI-MW-5-20211214	12/14/21	SoundEarth	<1	<0.5	<1	<1	<0.2
DECOMMISSIONED 2022								
ONNI-MW-9	ONNI-MW-9-20211214	12/14/21	SoundEarth	<1	<0.5	1.3	<1	<0.2
	ONNI-MW-9-20220606	06/06/22	SoundEarth	<1	<0.5	<1	<1	<0.02
DECOMMISSIONED 2022								
MW29R	MW29R-20230824	08/24/23	SoundEarth	18	11	33	<1	<0.2
	MW29R-20240105	01/05/24	SoundEarth	8.5	2.2	2.3	<1	<0.2
	MW29R-20240625	06/25/24	SoundEarth	11	5.7	4.6	<1	<0.2
	MW29R-20241217	12/17/24	SoundEarth	8.0	4.0	5.0	<1	<0.2
MW35	MW35-20230824	08/24/23	SoundEarth	<1	<0.5	<1	<1	<0.2
	MW35-20240105	01/05/24	SoundEarth	1.4	<0.5	<1	<1	<0.2
	MW35-20240625	06/25/24	SoundEarth	1.7	<0.5	<1	<1	<0.2
	MW35-20241217	12/17/24	SoundEarth	1.8	<0.5	<1	<1	<0.2
Commercial Worker Groundwater Remediation Level at the Property ⁽²⁾				120	12	1,600	NA	1.6
Roadway Excavation Worker Groundwater Remediation Level in ROWs ⁽²⁾				760	40	10,000	NA	9.9
MTCA Cleanup Level				5 ⁽³⁾	5 ⁽³⁾	16 ⁽³⁾	160 ⁽³⁾	0.2 ⁽³⁾



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Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	PCE ⁽¹⁾ (µg/L)	TCE ⁽¹⁾ (µg/L)	cis-1-2-DCE ⁽¹⁾ (µg/L)	trans-1-2-DCE ⁽¹⁾ (µg/L)	Vinyl Chloride ⁽¹⁾ (µg/L)
North-Adjoining Property								
SLU-MW01	MW01-20120229	02/29/12 ⁽⁵⁾	SoundEarth	<1	<1	<1	<1	<0.2
DECOMMISSIONED 2013								
SLU-MW02	MW02-20120229	02/29/12 ⁽⁵⁾	SoundEarth	<1	<1	<1	<1	<0.2
DECOMMISSIONED 2013								
Commercial Worker Groundwater Remediation Level at the Property⁽²⁾				120	12	1,600	NA	1.6
Roadway Excavation Worker Groundwater Remediation Level in ROWs⁽²⁾				760	40	10,000	NA	9.9
MTCA Cleanup Level				5⁽³⁾	5⁽³⁾	16⁽⁴⁾	160⁽⁴⁾	0.2⁽³⁾

NOTES:

Red denotes concentrations exceeding the MTCA Method cleanup level for groundwater.

Blue shading indicates concentrations exceeding the Commercial Worker Groundwater remediation level at the Property.

Yellow shading indicates concentrations exceeding the Roadway Excavation Worker Groundwater Remediation Level in ROWs.

⁽¹⁾Analyzed by EPA Method 8260C, 8021B, or 8240.

⁽²⁾Table values in CLARC, Ecology's Guidance for Evaluating Vapor Intrusion in Washington State: Investigation and Remedial Action dated 2009, revised 2022, and Ecology's South Lake Union Group Memorandum, dated December 14, 2022.

⁽³⁾MTCA Method A Cleanup Levels, Table 720-1 of WAC 173-340-900.

⁽⁴⁾MTCA Cleanup Regulation, Chapter 173-340 of WAC, CLARC, Groundwater, Method B, Non-Carcinogen, Standard Formula Value, CLARC Website <<https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx>>.

⁽⁵⁾Sample data compiled from reports on file at the Washington State Department of Ecology.

Laboratory Notes:

^(a)The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

^(c)The sample was centrifuged prior to analysis.

^(e)Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

^{*}The sample was collected with a passive diffusion bag.

< = not detected at a concentration exceeding laboratory reporting limit

µg/L = micrograms per liter

CLARC = Cleanup Levels and Risk Calculations

CVOC = chlorinated volatile organic compound

DCE = dichloroethene

EPA = US Environmental Protection Agency

MTCA = Washington State Model Toxics Control Act

PCE = tetrachloroethene

SoundEarth = SoundEarth Strategies, Inc.

TCE = trichloroethene

WAC = Washington Administrative Code



Table 2A
Summary of Groundwater Analytical Results for CVOCs
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

[illegible]

NOTES:

Denotes CVOC concentration does not exceed the applicable MTCA cleanup level.

Denotes CVOC concentration exceeds the applicable MTCA cleanup level.

Denotes well not sampled and/or inaccessible.

CVOC = chlorinated volatile organic compound
 DCE = dichloroethene
 EPA = US Environmental Protection Agency
 MTCA = Washington State Model Toxics Control Act
 PCE = tetrachloroethene

ROW = right-of-way
TCE = trichloroethene
VC = vinyl chloride

Sample analyses conducted by Friedman & Bruya, Inc. of Seattle, Washington.

No trans-1,2-DCE has been detected above the reporting limit for samples collected at this site.

⁽¹⁾Samples analyzed by EPA Method 8260C.

⁽²⁾DCE refers to the greater concentration of cis-1,2-DCE.

⁽³⁾ Monitoring well MW16 destroyed during ROW construction in 2018, and replacement well MW28 installed.

⁽⁴⁾Monitoring well MW15 destroyed during construction in 2021, and replacement well MW34 installed.



Table 3
Groundwater Analytical Results for Petroleum Hydrocarbons
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	DRPH ⁽¹⁾ (µg/L)	ORPH ⁽¹⁾ (µg/L)	GRPH ⁽²⁾ (µg/L)	Benzene ⁽³⁾ (µg/L)	Toluene ⁽³⁾ (µg/L)	Ethylbenzene ⁽³⁾ (µg/L)	Total Xylenes ⁽³⁾ (µg/L)
Troy Laundry Property										
MW06	MW06-20110531	05/31/11	SoundEarth	330 ^x	<250	<100	<1	<1	<1	<3
	MW06-20111011	10/10/11	SoundEarth	83 ^x	<250	<100	<1	<1	<1	<3
	MW06-20130909	09/09/13	SoundEarth	150 ^x	<250	<100	<1	<1	<1	<3
DECOMMISSIONED 2013										
MW08	MW08-20111013	10/13/11	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW08-20130910	09/10/13	SoundEarth	120 ^x	<250	<100	<1	<1	<1	<3
DECOMMISSIONED 2013										
MW09	MW09-20111013	10/13/11	SoundEarth	240 ^x	<250	1,400	<1	<1	2.7	10
	MW09-20130910	09/10/13	SoundEarth	<50	<250	<100	<1	<1	<1	<3
DECOMMISSIONED 2013										
MW10	MW10-20111012	10/12/11	SoundEarth	68 ^x	<250	<100	<1	<1	<1	<3
	MW10-20130909	09/09/13	SoundEarth	<50	<250	<100	<1	<1	<1	<3
DECOMMISSIONED 2013										
MW11	MW11-20111013	10/13/11	SoundEarth	110 ^x	<250	<100	<1	<1	<1	<3
	MW11-20130909	09/09/13	SoundEarth	97 ^x	<250	<100	<1	<1	<1	<3
DECOMMISSIONED 2013										
MW12	MW12-20111017	10/17/11	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW12-20130909	09/09/13	SoundEarth	<50	<250	<100	<1	<1	<1	<3
DECOMMISSIONED 2013										
MW17	MW17-20150506	05/06/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW17-20150804	08/04/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW17-20151207	12/07/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW17-20160308	03/08/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW17-20160714	07/14/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW17-20161020	10/20/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW17-20170126	01/26/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW17-20170601	06/01/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW17-20170923	09/23/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW17-20171216	12/16/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW17-20180310	03/10/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW17-20180630	06/30/18	SoundEarth	<60	<300	<100	<1	<1	<1	<3
	MW17-20180922	09/22/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW17-20181215	12/15/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW17-20190615	06/15/19	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW17-20191207	12/07/19	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW17-20200627	06/27/20	SoundEarth	<50	<250	<100	<1	<1	<1	<3
MTCA Cleanup Level				500⁽⁴⁾	500⁽⁴⁾	1,000/800⁽⁴⁾⁽⁵⁾	5⁽⁴⁾	1,000⁽⁴⁾	700⁽⁴⁾	1,000⁽⁴⁾



Table 3
Groundwater Analytical Results for Petroleum Hydrocarbons
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	DRPH ⁽¹⁾ (µg/L)	ORPH ⁽¹⁾ (µg/L)	GRPH ⁽²⁾ (µg/L)	Benzene ⁽³⁾ (µg/L)	Toluene ⁽³⁾ (µg/L)	Ethylbenzene ⁽³⁾ (µg/L)	Total Xylenes ⁽³⁾ (µg/L)
MW18	MW18-20150506	05/06/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW18-20150803	08/03/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW18-20151208	12/08/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW18-20160308	03/08/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW18-20160714	07/14/16	SoundEarth	31,000 ^{x, ip}	5,100 ^{x, ip}	<100	<0.35	<1	<1	<3
	MW18-20161020	10/20/16	SoundEarth	61,000 ^{x, ip}	<8,400 ^{x, ip}	1,100 ^x	<0.35	<1	<1	<3
	MW18-20170126	01/26/17	SoundEarth	22,000 ^{x, ip}	3,500 ^{x, ip}	840	<0.35	<1	<1	<3
	MW18-20170601	06/01/17	SoundEarth	77,000 ^{x, ip}	1,600 ^{x, ip}	470	<0.35	<1	<1	<3
	MW18-20170923	09/23/17	SoundEarth	34,000 ^x	<3,500	210	<0.35	<1	<1	<3
	MW18-20171216	12/16/17	SoundEarth	18,000 ^{x, ip}	<2,500 ^{ip}	380	<0.35	<1	<1	<3
	MW18-20180310	03/10/18	SoundEarth	6,000 ^x	<2,500	390	<1	1.3	<1	<3
	MW18-20180630	06/30/18	SoundEarth	12,000 ^x	1,600 ^x	230	<1	1.3	<1	12
	MW18-20180922	09/22/18	SoundEarth	1,400 ^{x, ip}	<2,500 ^{ip}	290	<1	<1	<1	6.9
	MW18-20181215	12/15/18	SoundEarth	1,600 ^x	490 ^x	<100	<1	<1	<1	<3
	MW18-20190615	06/15/19	SoundEarth	1,100 ^x	830 ^x	<100	<1	<1	<1	<3
MW19	MW18-20191207	12/07/19	SoundEarth	830 ^x	480 ^x	<100	<1	<1	<1	<3
	MW18-20200627	06/27/20	SoundEarth	260 ^x	<250	<100	<1	<1	<1	<3
	MW19-20150507	05/07/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW19-20150803	08/03/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW19-20151207	12/07/15	SoundEarth	85 ^x	<250	<100	<0.35	<1	<1	<3
	MW19-20160308	03/08/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW19-20160713	07/13/16	SoundEarth	21,000 ^{x, ip}	4,100 ^{x, ip}	<100	<0.35	<1	<1	<3
	MW19-20161021	10/21/16	SoundEarth	18,000 ^{x, ip}	2,300 ^{x, ip}	<100	<0.35	<1	<1	<3
	MW19-20170125	01/25/17	SoundEarth	29,000 ^x	4,400 ^x	210 ^x	<0.35	<1	<1	<3
	MW19-20170601	06/01/17	SoundEarth	31,000 ^{x, ip}	3,400 ^{x, ip}	180	<0.35	<1	<1	<3
	MW19-20170923	09/23/17	SoundEarth	27,000 ^{x, ip}	<3,000 ^{ip}	150	<0.35	<1	<1	<3
	MW19-20171216	12/16/17	SoundEarth	9,700 ^{x, ip}	<2,500 ^{ip}	470	<0.35	<1	<1	<3
	MW19-20180310	03/10/18	SoundEarth	1,600 ^x	<2,500	250	<1	<1	<1	<3
	MW19-20180630	06/30/18	SoundEarth	13,000 ^x	820 ^x	310	<1	<1	<1	9.6
	MW19-20180922	09/22/18	SoundEarth	3,300 ^{x, ip}	<2,500 ^{ip}	300	<1	<1	<1	5.0
	MW19-20190615	06/15/19	SoundEarth	650 ^x	430 ^x	<100	<1	<1	<1	<3
	MW19-20191207	12/07/19	SoundEarth	610 ^x	690 ^x	<100	<1	<1	<1	<3
	MW19-20200627	06/27/20	SoundEarth	150 ^x	380 ^x	<100	<1	<1	<1	<3
MTCA Cleanup Level				500 ⁽⁴⁾	500 ⁽⁴⁾	1,000/800 ^{(4) (5)}	5 ⁽⁴⁾	1,000 ⁽⁴⁾	700 ⁽⁴⁾	1,000 ⁽⁴⁾



Table 3
Groundwater Analytical Results for Petroleum Hydrocarbons
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	DRPH ⁽¹⁾ (µg/L)	ORPH ⁽¹⁾ (µg/L)	GRPH ⁽²⁾ (µg/L)	Benzene ⁽³⁾ (µg/L)	Toluene ⁽³⁾ (µg/L)	Ethylbenzene ⁽³⁾ (µg/L)	Total Xylenes ⁽³⁾ (µg/L)
MW20	MW20-20150506	05/06/15	SoundEarth	120 ^x	<250	<100	<0.35	<1	<1	<3
	MW20-20150803	08/03/15	SoundEarth	140 ^x	<250	<100	<0.35	<1	<1	<3
	MW20-20151207	12/07/15	SoundEarth	84 ^x	<250	<100	<0.35	<1	<1	<3
	MW20-20160309	03/09/16	SoundEarth	130 ^x	<300	<100	<0.35	<1	<1	<3
	MW20-20160715	07/15/16	SoundEarth	150 ^x	<250	<100	<0.35	<1	<1	<3
	MW20-20161020	10/20/16	SoundEarth	110 ^x	<250	<100	<0.35	<1	<1	<3
	MW20-20170125	01/25/17	SoundEarth	64 ^x	<250	<100	<0.35	<1	<1	<3
	MW20-20170601	06/01/17	SoundEarth	94 ^x	<250	<100	<0.35	<1	<1	<3
	MW20-20170924	09/24/17	SoundEarth	130 ^x	<300	<100	<0.35	<1	<1	<3
	MW20-20171216	12/16/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW20-20180310	03/10/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW20-20180630	06/30/18	SoundEarth	120 ^x	<250	<100	<1	<1	<1	<3
	MW20-20180922	09/22/18	SoundEarth	100 ^x	<250	<100	<1	<1	<1	<3
	MW20-20181215	12/15/18	SoundEarth	72 ^x	<250	<100	<1	<1	<1	<3
	MW20-20190615	06/15/19	SoundEarth	140 ^x	<250	<100	<1	<1	<1	<3
MW21	MW20-20191207	12/07/19	SoundEarth	80 ^x	<250	<100	<1	<1	<1	<3
	MW20-20200627	06/27/20	SoundEarth	91 ^x	<250	<100	<1	<1	<1	<3
	MW21-20150506	05/06/15	SoundEarth	160 ^x	<250	<100	<0.35	<1	<1	<3
	MW21-20150804	08/04/15	SoundEarth	150 ^x	<250	<100	<0.35	<1	<1	<3
	MW21-20151208	12/08/15	SoundEarth	110 ^x	<250	<100	<0.35	<1	<1	<3
	MW21-20160309	03/09/16	SoundEarth	120 ^x	<250	<100	<0.35	<1	<1	<3
	MW21-20160713	07/13/16	SoundEarth	12,000 ^x	2,700 ^x	<100	<0.35	<1	<1	<3
	MW21-20161020	10/20/16	SoundEarth	77,000 ^{x, ip}	8,600 ^{x, ip}	<100	<0.35	<1	<1	<3
	MW21-20170126	01/26/17	SoundEarth	16,000 ^{x, ip}	10,000 ^{x, ip}	<100	<0.35	<1	<1	<3
	MW21-20170601	06/01/17	SoundEarth	48,000 ^{x, ip}	18,000 ^{x, ip}	130	<0.35	<1	<1	<3
	MW21-20170923	09/23/17	SoundEarth	67,000 ^{x, ip}	7,700 ^{x, ip}	220	<0.35	<1	<1	<3
	MW21-20171216	12/16/17	SoundEarth	27,000 ^x	<2,500	390	<0.35	<1	<1	<3
	MW21-20180310	03/10/18	SoundEarth	23,000 ^x	<2,500	130	<1	<1	<1	<3
	MW21-2018630	06/30/18	SoundEarth	65,000 ^{x, ip}	5,200 ^{x, ip}	670	<1	3.0	11	11
	MW21-20180922	09/22/18	SoundEarth	53,000 ^{x, ip}	8,600 ^{x, ip}	400	<1	<1	<1	3.4
	MW21-20181215	12/15/18	SoundEarth	47,000 ^x	2,100 ^x	180	<1	<1	<1	6.5
	MW21-20190615	06/15/19	SoundEarth	6,400 ^x	<2,500	<100	<1	<1	<1	3.8
	MW21-20191207	12/07/19	SoundEarth	21,000 ^x	2,100 ^x	300	<1	<1	<1	4.8
	MW21-20200627	06/27/20	SoundEarth	120,000 ^x	3,500 ^{x, ip}	1,100	1.8	5.9	<1	19
	MW21-20201212	12/12/20	SoundEarth	36,000 ^x	6,500 ^x	460	--	--	--	--
	MW21-20210625	06/25/21	SoundEarth	74,000 ^{x, ve}	5,400 ^x	1,000	--	--	--	--
	MW21-20211217	12/17/21	SoundEarth	48,000 ^x	5,800 ^x	<1,000	--	--	--	--
	MW21-20220609	06/09/22	SoundEarth	47,000 ^x	3,700 ^x	210	--	--	--	--
	MW21-20221215	12/15/22	SoundEarth	14,000 ^x	4,200 ^x	200	--	--	--	--
	MW21-20230623	06/23/23	SoundEarth	5,900 ^x	3,800 ^x	<100	--	--	--	--
	MW21-20231207	12/07/23	SoundEarth	8,500 ^x	4,400 ^x	<100	--	--	--	--
	MW21-20240627	06/27/24	SoundEarth	3,900 ^x	850 ^x	<100	--	--	--	--
	MW21-20241220	12/20/24	SoundEarth	4,400 ^x	710 ^x	130	--	--	--	--
MTCA Cleanup Level				500 ⁽⁴⁾	500 ⁽⁴⁾	1,000/800 ^{(4) (5)}	5 ⁽⁴⁾	1,000 ⁽⁴⁾	700 ⁽⁴⁾	1,000 ⁽⁴⁾



Table 3
Groundwater Analytical Results for Petroleum Hydrocarbons
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	DRPH ⁽¹⁾ (µg/L)	ORPH ⁽¹⁾ (µg/L)	GRPH ⁽²⁾ (µg/L)	Benzene ⁽³⁾ (µg/L)	Toluene ⁽³⁾ (µg/L)	Ethylbenzene ⁽³⁾ (µg/L)	Total Xylenes ⁽³⁾ (µg/L)
MW22	MW22-20150506	05/06/15	SoundEarth	97 ^x	<250	<100	<0.35	<1	<1	<3
	MW22-20150804	08/05/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW22-20151208	12/08/15	SoundEarth	69 ^x	<300	<100	<0.35	<1	<1	<3
	MW22-20160308	03/08/16	SoundEarth	110 [†]	<250	<100	<0.35	<1	<1	<3
	MW22-20160713	07/13/16	SoundEarth	8,000 ^{x, ip}	2,100 ^{x, ip}	140	<0.35	<1	<1	<3
	MW22-20161020	10/20/16	SoundEarth	29,000 ^{x, ip}	7,500 ^{x, ip}	130	<0.35	<1	<1	<3
	MW22-20170126	01/26/17	SoundEarth	13,000 ^{x, ip}	13,000 ^{x, ip}	730	<0.35	<1	<1	<3
	MW22-20170601	06/01/17	SoundEarth	59,000 ^x	8,700 ^x	660	<0.35	<1	<1	<3
	MW22-20170923	09/23/17	SoundEarth	85,000 ^{x, ip}	<2,500 ^{ip}	390	<0.35	<1	<1	<3
	MW22-20171216	12/16/17	SoundEarth	58,000 ^{x, ip}	<3,000 ^{ip}	1,800	<0.35	<1	<1	<3
	MW22-20180310	03/10/18	SoundEarth	50,000 ^x	<2,500	530	<0.35	<1	<1	10
	MW22-20180630	06/30/18	SoundEarth	86,000 ^{x, ip}	4,500 ^{x, ip}	620	<1	<1	<1	34
	MW22-20180922	09/22/18	SoundEarth	73,000 ^{x, ip}	6,800 ^{x, ip}	320	<1	<1	<1	21
	MW22-20181215	12/15/18	SoundEarth	49,000 ^x	7,700 ^x	180	<1	<1	<1	14
	MW22-20190615	06/15/19	SoundEarth	24,000 ^x	4,600 ^x	170	<1	<1	<1	21
	MW22-20191207	12/07/19	SoundEarth	40,000 ^x	3,400 ^x	810	<1	<1	<1	74
	MW22-20200627	06/27/20	SoundEarth	25,000 ^x	1,100 ^x	340	<1	<1	<1	4.3
	MW22-20201212	12/12/20	SoundEarth	12,000 ^x	4,100 ^x	570	--	--	--	--
	MW22-20210625	06/25/21	SoundEarth	20,000 ^x	1,800 ^x	540	--	--	--	--
	MW22-20211217	12/17/21	SoundEarth	47,000 ^x	5,700 ^x	<1,000	--	--	--	--
MW23	MW22-20220609	06/09/22	SoundEarth	7,800 ^x	630 ^x	<100	--	--	--	--
	MW22-20221216	12/16/22	SoundEarth	12,000 ^x	2,200 ^x	150	--	--	--	--
	MW22-20230623	06/23/23	SoundEarth	2,900 ^x	1,500 ^x	120	--	--	--	--
	MW22-20231207	12/07/23	SoundEarth	3,100 ^x	720 ^x	<100	--	--	--	--
	MW22-20240627	06/27/24	SoundEarth	5,000 ^x	490 ^x	<100	--	--	--	--
	MW22-20241220	12/20/24	SoundEarth	4,500 ^x	840 ^x	120	--	--	--	--
	MW23-20150507	05/07/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW23-20150804	08/04/15	SoundEarth	520 [†]	<250	<100	<0.35	<1	<1	<3
	MW23-20151208	12/08/15	SoundEarth	190 ^x	<300	<100	<0.35	<1	<1	<3
	MW23-20160308	03/08/16	SoundEarth	410 [†]	<250	<100	<0.35	<1	<1	<3
	MW23-20160714	07/14/16	SoundEarth	26,000 ^{x, ip}	1,500 ^{x, ip}	190	<0.35	<1	<1	<3
	MW23-20161020	10/20/16	SoundEarth	80,000 ^{x, ip}	<5,000 ^{ip}	350	<0.35	<1	<1	<3
	MW23-20170126	01/26/17	SoundEarth	14,000 ^{x, ip}	5,600 ^{x, ip}	240	<0.35	<1	<1	<3
	MW23-20170601	06/01/17	SoundEarth	140,000 ^{x, ip}	4,000 ^{x, ip}	210	<0.35	<1	<1	<3
	MW23-20170923	09/23/17	SoundEarth	140,000 ^x	<2,500	170	<0.35	<1	<1	<3
	MW23-20171216	12/16/17	SoundEarth	110,000 ^{x, ip}	<2,500 ^{ip}	2,200	<0.35	<1	<1	<3
	MW23-20180310	03/10/18	SoundEarth	11,000 ^x	<2,500	600	<1	<1	<1	4.6
	MW23-20180630	06/30/18	SoundEarth	30,000 ^x	1,000 ^x	540	<1	<1	<1	31
	MW23-20180922	09/22/18	SoundEarth	19,000 ^{x, ip}	<2,600 ^{ip}	150	<1	<1	<1	11
	MW23-20181215	12/15/18	SoundEarth	14,000 ^x	500 ^x	180	<1	<1	<1	7.1
	MW23-20190615	06/15/19	SoundEarth	3,400 ^x	<2,500	260	<1	<1	<1	7.1
	MW23-20191207	12/07/19	SoundEarth	1,400 ^x	790 ^x	<100	<1	<1	<1	<3
	MW23-20200627	06/27/20	SoundEarth	360 [†]	<250	<100	<1	<1	<1	<3
MTCA Cleanup Level				500 ⁽⁴⁾	500 ⁽⁴⁾	1,000/800 ^{(4) (5)}	5 ⁽⁴⁾	1,000 ⁽⁴⁾	700 ⁽⁴⁾	1,000 ⁽⁴⁾



Table 3
Groundwater Analytical Results for Petroleum Hydrocarbons
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	DRPH ⁽¹⁾ (µg/L)	ORPH ⁽¹⁾ (µg/L)	GRPH ⁽²⁾ (µg/L)	Benzene ⁽³⁾ (µg/L)	Toluene ⁽³⁾ (µg/L)	Ethylbenzene ⁽³⁾ (µg/L)	Total Xylenes ⁽³⁾ (µg/L)
MW24	MW24-20150506	05/06/15	SoundEarth	93 ^x	<250	<100	<0.35	<1	<1	<3
	MW24-20150804	08/04/15	SoundEarth	94 ^x	<250	<100	<0.35	<1	<1	<3
	MW24-20151208	12/08/15	SoundEarth	240 ^x	<250	<100	<0.35	<1	<1	<3
	MW24-20160309	03/09/16	SoundEarth	130 ^x	<250	<100	<0.35	<1	<1	<3
	MW24-20160715	07/15/16	SoundEarth	13,000 ^{x, ip}	1,400 ^{x, ip}	<100	<0.35	<1	<1	<3
	MW98-20160715 (DUP)		SoundEarth	11,000 ^{x, ip}	1,900 ^{x, ip}	<100	<0.35	<1	<1	<3
	MW24-20161020	10/20/16	SoundEarth	3,200 ^{x, ip}	1,900 ^{x, ip}	<100	<0.35	<1	<1	<3
	MW24-20170125	01/25/17	SoundEarth	12,000 ^x	2,000 ^x	<100	<0.35	<1	<1	<3
	MW24-20170601	06/01/17	SoundEarth	510,000 ^{x, ip}	27,000 ^{x, ip}	<100	<0.35	<1	<1	<3
	MW24-20170601	09/24/17	SoundEarth	39,000 ^{x, ip}	<3,000 ^{ip}	250	<0.35	<1	<1	<3
	MW24-20171216	12/16/17	SoundEarth	10,000 ^x	<3,000	990	<0.35	<1	<1	<3
	MW24-20180310	03/10/18	SoundEarth	990 ^x	<2,500	460	<1	<1	<1	3.7
	MW24-20180630	06/30/18	SoundEarth	75,000 ^{x, ip}	7,700 ^{x, ip}	2,700	<1	3.6	6.5	110
	MW24-20180922	09/22/18	SoundEarth	7,800 ^{x, ip}	<2,500 ^{ip}	190	<1	<1	<1	7.5
	MW24-20181215	12/15/18	SoundEarth	20,000 ^x	2,700 ^x	<100	<1	<1	<1	<3
	MW24-20190615	06/15/19	SoundEarth	6,400 ^x	<2,500	<100	<1	<1	<1	<3
	MW24-20191207	12/07/19	SoundEarth	7,100 ^x	1,400 ^x	<100	<1	<1	<1	<3
	MW24-20200627	06/27/20	SoundEarth	700 ^{x, ip}	570 ^{x, ip}	<100	<1	<1	<1	<3
MTCA Cleanup Level				500 ⁽⁴⁾	500 ⁽⁴⁾	1,000/800 ^{(4) (5)}	5 ⁽⁴⁾	1,000 ⁽⁴⁾	700 ⁽⁴⁾	1,000 ⁽⁴⁾



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Troy Laundry Seattle Site
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Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	DRPH ⁽¹⁾ (µg/L)	ORPH ⁽¹⁾ (µg/L)	GRPH ⁽²⁾ (µg/L)	Benzene ⁽³⁾ (µg/L)	Toluene ⁽³⁾ (µg/L)	Ethylbenzene ⁽³⁾ (µg/L)	Total Xylenes ⁽³⁾ (µg/L)
MW25	MW25-20150507	05/07/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW99-20150507 (DUP)			<50	<250	<100	<0.35	<1	<1	<3
	MW25-20150805	08/05/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW99-20150805 (DUP)			<50	<250	<100	<0.35	<1	<1	<3
	MW25-20151209	12/09/15	SoundEarth	86 ^x	<250	<100	<0.35	<1	<1	<3
	MW99-20151209 (DUP)			100 ^x	<300	<100	<0.35	<1	<1	<3
	MW25-20160308	03/08/16	SoundEarth	190 ^x	<250	<100	<0.35	<1	<1	<3
	MW99-20160308(DUP)			160 ^x	<250	<100	<0.35	<1	<1	<3
	MW25-20160713	07/13/16	SoundEarth	43,000 ^x	5,000 ^x	110	<0.35	<1	<1	<3
	MW25-20161019	10/19/16	SoundEarth	26,000 ^x	1,500 ^x	160	--	--	--	--
	MW99-20161019(DUP)			29,000 ^x	1,600 ^x	160	--	--	--	--
	MW25-20170125	01/25/17	SoundEarth	8,200 ^x	340 ^x	120 ^x	<0.35	<1	<1	<3
	MW99-20170125(DUP)			6,900 ^x	350 ^x	150 ^x	<0.35	<1	<1	<3
	MW25-20170601	06/01/17	SoundEarth	50,000 ^{x, ip}	<1,000 ^{ip}	370	<0.35	<1	<1	<3
	MW99-20170601(DUP)			46,000 ^{x, ip}	<1,000 ^{ip}	410	<0.35	<1	<1	<3
	MW25-20170923	09/23/17	SoundEarth	12,000 ^{x, ip}	<2,500 ^{ip}	270	<0.35	<1	<1	<3
	MW99-20170923(DUP)			13,000 ^{x, ip}	<2,500 ^{ip}	220	<0.35	<1	<1	<3
	MW25-20171216	12/16/17	SoundEarth	4,000 ^{x, ip}	<3,000 ^{ip}	580	<0.35	<1	<1	<3
	MW99-20171216 (DUP)			4,000 ^{x, ip}	<3,000 ^{ip}	700	<0.35	<1	<1	<3
	MW25-20180310	03/10/18	SoundEarth	3,300 ^x	<2,500	490	<1	<1	<1	4.7
	MW99-20180310 (DUP)			3,800 ^x	<2,500	510	<1	<1	<1	4.5
	MW25-20180630	06/30/18	SoundEarth	5,300 ^{x, ip}	630 ^{x, ip}	490	<1	<1	<1	31
	MW99-20180630 (DUP)			5,500 ^{x, ip}	410 ^{x, ip}	340	<1	<1	<1	26
	MW25-20180922	09/22/18	SoundEarth	1,500 ^{x, ip}	<2,500 ^{ip}	300	<1	<1	<1	17
	MW99-20180922 (DUP)			1,900 ^{x, ip}	<2,500 ^{ip}	160	<1	<1	<1	13
	MW25-20181215	12/15/18	SoundEarth	1,100 ^x	<250	<100	<1	<1	<1	<3
	MW99-20181215 (DUP)			960 ^x	<250	<100	<1	<1	<1	<3
	MW25-20190615	06/15/19	SoundEarth	1,000 ^x	<2,500	<100	<1	<1	<1	<3
	MW99-20190615 (DUP)			1,100 ^x	<2,500	<100	<1	<1	<1	<3
	MW25-20191207	12/07/19	SoundEarth	240 ^x	<250	<100	<1	<1	<1	<3
	MW99-20191207 (DUP)			300 ^x	<250	<100	<1	<1	<1	<3
	MW25-20200627	06/27/20	SoundEarth	130 ^x	<250	<100	<1	<1	<1	<3
	MW99-20200627 (DUP)			190 ^x	<250	<100	<1	<1	<1	<3
MTCA Cleanup Level				500 ⁽⁴⁾	500 ⁽⁴⁾	1,000/800 ⁽⁴⁾⁽⁵⁾	5 ⁽⁴⁾	1,000 ⁽⁴⁾	700 ⁽⁴⁾	1,000 ⁽⁴⁾



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IW04	IW04-20150508	05/08/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	IW04-20170601	06/01/17	SoundEarth	--	--	--	<0.35	<1	<1	<3
IW06	IW06-20150507	05/07/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
IW50	IW50-20150803	08/03/15	SoundEarth	5,000 ^x	<250	<100	<0.35	<1	<1	<3
	IW50-20160715	07/15/16	SoundEarth	39,000 ^x	1,900 ^x	640	<0.35	<1	<1	<3
IW91	IW91-20150506	05/06/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	IW91-20150804	08/04/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	IW91-20151208	12/08/15	SoundEarth	<60	<300	<100	<0.35	<1	<1	<3
	IW91-20160309	03/09/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	IW91-20160714	07/14/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	IW91-20161020	10/20/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	IW91-20170126	01/26/17	SoundEarth	200 ^x	<300	<100	<0.35	<1	<1	<3
	IW91-20170601	06/01/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	IW91-20170923	09/23/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	IW91-20171216	12/16/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	IW91-20180310	03/10/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	IW91-20180630	06/30/18	SoundEarth	<60	<300	<100	<1	<1	<1	<3
	IW91-20180922	09/22/18	SoundEarth	<60	<300	<100	<1	<1	<1	<3
	IW91-20181215	12/15/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	IW91-20190615	06/15/19	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	IW91-20191207	12/07/19	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	IW91-20200627	06/27/20	SoundEarth	60 ⁺	<250	<100	<1	<1	<1	<3
MTCA Cleanup Level				500 ⁽⁴⁾	500 ⁽⁴⁾	1,000/800 ⁽⁴⁾⁽⁵⁾	5 ⁽⁴⁾	1,000 ⁽⁴⁾	700 ⁽⁴⁾	1,000 ⁽⁴⁾



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Boren Avenue North										
MW04	MW04-20110527	05/27/11	SoundEarth	<50	<250	<100	<1	1.3	<1	<3
	MW04-20111012	10/12/11	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW04-20130909	09/09/13	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW04-20150508	05/08/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW04-20150806	08/06/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW04-20151209	12/09/15	SoundEarth	<60	<300	<100	<0.35	<1	<1	<3
	MW04-20160308	03/08/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW04-20160713	07/13/16	SoundEarth	<56	<280	<100	<0.35	<1	<1	<3
	MW04-20161019	10/19/16	SoundEarth	<50	<250	<100	--	--	--	--
	MW04-20170124	01/24/17	SoundEarth	150 ^x	<250	<100	<0.35	<1	<1	<3
	MW04-20170531	05/31/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW04-20170921	09/21/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW04-20171214	12/14/17	SoundEarth	<60	<300	<100	<0.35	<1	<1	<3
	MW04-20180309	03/09/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW04-20180629	06/29/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW04-20180920	09/20/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
MW05	MW04-20181214	12/14/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW04-20190614	06/14/19	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW04-20191205	12/05/19	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW04-20200626	06/26/20	SoundEarth	130 ^x	<250	<100	<1	<1	<1	<3
	MW05-20110527	05/27/11	SoundEarth	<50	<250	<100	<1	<1	<1	<3
MW05	MW05-20111012	10/12/11	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW05-20130910	09/10/13	SoundEarth	<50	<250	<100	<1	<1	<1	<3
DECOMMISSIONED 2015										
MTCA Cleanup Level				500 ⁽⁴⁾	500 ⁽⁴⁾	1,000/800 ⁽⁴⁾⁽⁵⁾	5 ⁽⁴⁾	1,000 ⁽⁴⁾	700 ⁽⁴⁾	1,000 ⁽⁴⁾



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MW07	MW07-20110531	05/31/11	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW07-20111012	10/12/11	SoundEarth	240 ^f	<250	<100	<1	<1	<1	<3
	MW07-20130909	09/09/13	SoundEarth	120 ^f	<250	<100	<1	<1	<1	<3
	MW07-20150508	05/08/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW07-20150805	08/05/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW07-20151209	12/09/15	SoundEarth	<60	<300	<100	<0.35	<1	<1	<3
	MW07-20160308	03/08/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW07-20160713	07/13/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW07-20161019	10/19/16	SoundEarth	76 ^x	<250	<100	--	--	--	--
	MW07-20170124	01/24/17	SoundEarth	120 ^f	<250	<100	<0.35	<1	<1	<3
	MW07-20170531	05/31/17	SoundEarth	54 ^x	<250	<100	<0.35	<1	<1	<3
	MW07-20180308	03/08/18	SoundEarth	<50	<250	<100	<1	<1	<1	<1
	MW07-20180629	06/29/18	SoundEarth	<60	<300	<100	<1	<1	<1	<3
	MW07-20180920	09/20/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW07-20181214	12/14/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
MW13	MW07-20190614	06/14/19	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW07-20191205	12/05/19	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW07-20200630	06/30/20	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW13-20111020	10/20/11	SoundEarth	150 ^f	<250	<100	<1	<1	<1	<3
	MW13-20130910	09/10/13	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW13-20150511	05/11/15	SoundEarth	<70	<350	<100	<0.35 ^{cf}	<1 ^{cf}	<1 ^{cf}	<3 ^{cf}
	MW13-20150805	08/05/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW13-20151215	12/15/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW13-20160307	03/07/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW13-20160712	07/12/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW13-20161019	10/19/16	SoundEarth	<50	<250	<100	--	--	--	--
	MW13-20170124	01/24/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW13-20170531	05/31/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW13-20170921	09/21/17	SoundEarth	120 ^f	<300	<100	<0.35	<1	<1	<3
	MW13-20171214	12/14/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW13-20180308	03/08/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW13-20180629	06/29/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW13-20180920	09/20/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW13-20181214	12/14/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW13-20190614	06/14/19	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW13-20191205	12/05/19	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW13-20200626	06/26/20	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW13-20201210	12/10/20	SoundEarth	80 ^f	<250	<100	<1	<1	<1	<3
	MW13-20210623	06/23/21	SoundEarth	100 ^x	<300	<100	<1	<1	<1	<3
	MW13-20211216	12/16/21	SoundEarth	<50	<250	<100	--	--	--	--
	MW13-20220608	06/08/22	SoundEarth	<50	<250	<100	--	--	--	--
	MW13-20221214	12/14/22	SoundEarth	88 ^x	<280	<100	--	--	--	--
	MW13-20230622	06/22/23	SoundEarth	<50	<250	<100	--	--	--	--
	MW13-20231206	12/06/23	SoundEarth	<50	<250	<100	--	--	--	--
	MW13-20240626	06/26/24	SoundEarth	<50	<250	<100	--	--	--	--
	MW13-20241216	12/16/24	SoundEarth	<50	<250	<100	--	--	--	--
MTCA Cleanup Level				500 ⁽⁴⁾	500 ⁽⁴⁾	1,000/800 ⁽⁴⁾⁽⁵⁾	5 ⁽⁴⁾	1,000 ⁽⁴⁾	700 ⁽⁴⁾	1,000 ⁽⁴⁾



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Sample Location	Sample Identification	Sample Date	Sampled By	DRPH ⁽¹⁾ (µg/L)	ORPH ⁽¹⁾ (µg/L)	GRPH ⁽²⁾ (µg/L)	Benzene ⁽³⁾ (µg/L)	Toluene ⁽³⁾ (µg/L)	Ethylbenzene ⁽³⁾ (µg/L)	Total Xylenes ⁽³⁾ (µg/L)
MW27	MW27-20151210	12/10/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW27-20160307	03/07/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW27-20160713	07/13/16	SoundEarth	<52	<260	<100	<0.35	<1	<1	<3
	MW27-20161019	10/19/16	SoundEarth	<50	<250	<100	--	--	--	--
	MW27-20170124	01/24/17	SoundEarth	<60	<300	<100	<0.35	<1	<1	<3
	MW27-20170531	05/31/17	SoundEarth	<60	<300	<100	<0.35	<1	<1	<3
	MW27-20170921	09/21/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW27-20171214	12/14/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW27-20180308	03/08/18	SoundEarth	540*	<250	<100	<1	<1	<1	<3
	MW27-20180628	06/28/18	SoundEarth	<60	<300	<100	<1	<1	<1	<3
	MW27-20180920	09/20/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW27-20181214	12/14/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW27-20190614	06/14/19	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW27-20191205	12/05/19	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW27-20200626	06/26/20	SoundEarth	<50	<250	<100	<1	<1	<1	<3
Terry Avenue North										
MW15	MW15-20121211	12/11/12	SoundEarth	--	--	<100	<0.35	<1	<1	<3
	MW15-20130910	09/10/13	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW15-20150508	05/08/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW15-20150805	08/05/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW15-20151209	12/09/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW15-20160308	03/08/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW15-20160713	07/13/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW15-20161018	10/18/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW15-20170125	01/25/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW15-20170531	05/31/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW15-20170922	09/22/17	SoundEarth	<60	<300	<100	<0.35	<1	<1	<3
	MW15-20171215	12/15/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW15-20180309	03/09/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW15-20180629	06/29/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW15-20180920	09/20/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW15-20181214	12/14/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW15-20190613	06/13/19	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW15-20191205	12/05/19	SoundEarth	78*	<250	<100	<1	<1	<1	<3
	MW15-20200626	06/26/20	SoundEarth	<52	<250	<100	<1	<1	<1	<3
Well Damaged 2021										
MTCA Cleanup Level				500 ⁽⁴⁾	500 ⁽⁴⁾	1,000/800 ⁽⁴⁾⁽⁵⁾	5 ⁽⁴⁾	1,000 ⁽⁴⁾	700 ⁽⁴⁾	1,000 ⁽⁴⁾



Table 3
Groundwater Analytical Results for Petroleum Hydrocarbons
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	DRPH ⁽¹⁾ (µg/L)	ORPH ⁽¹⁾ (µg/L)	GRPH ⁽²⁾ (µg/L)	Benzene ⁽³⁾ (µg/L)	Toluene ⁽³⁾ (µg/L)	Ethylbenzene ⁽³⁾ (µg/L)	Total Xylenes ⁽³⁾ (µg/L)
Thomas Street										
MW14	MW14-20111020	10/20/11	SoundEarth	160 ^x	<250	<100	<1	<1	<1	<3
	MW14-20130911	09/11/13	SoundEarth	<50	<250	<100	<1	<1	<1	<3
DECOMMISSIONED										
MW16	MW16-20121211	12/11/12	SoundEarth	420 ^x	<250	640	<0.35	<1	<1	1.1
	MW16-20130911	09/11/13	SoundEarth	170 ^x	<250	110	<1	<1	<1	<3
	MW16-20150508	05/08/15	SoundEarth	150 ^x	<250	<100	<0.35	<1	<1	<3
	MW16-20150805	08/05/15	SoundEarth	210 ^x	<250	<100	<0.35	<1	<1	<3
	MW16-20151210	12/10/15	SoundEarth	420 ^x	<250	110	<0.35	<1	<1	<3
	MW16-20160308	03/08/16	SoundEarth	410 ^x	<250	140	<0.35	<1	<1	<3
	MW16-20160712	07/12/16	SoundEarth	510 ^x	<250	130	<0.35	<1	<1	<3
	MW16-20161019	10/19/16	SoundEarth	310 ^x	<250	<100	--	--	--	--
	MW16-20170125	01/25/17	SoundEarth	140 ^x	<250	<100	<0.35	<1	<1	<3
	MW16-20170531	05/31/17	SoundEarth	740 ^x	<250	140	<0.35	<1	<1	<3
	MW16-20170922	09/22/17	SoundEarth	570 ^x	<250	130	<0.35	<1	<1	<3
MW28	MW16-20171229	12/29/17	SoundEarth	160 ^x	<250	120	<0.35	<1	<1	<3
	MW16-20180309	03/09/18	SoundEarth	260 ^x	<250	120	<1	<1	<1	<3
	WELL DAMAGED 2018									
	MW28-20190613	06/13/19	SoundEarth	140 ^x	<250	160	<1	<1	<1	<3
	MW28-20191205	12/05/19	SoundEarth	98 ^x	<250	150	<1	<1	<1	<3
	MW28-20200626	06/26/20	SoundEarth	120 ^x	<250	140	<1	<1	<1	<3
	MW28-20201211	12/11/20	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW28-20210623	06/23/21	SoundEarth	120 ^x	<250	<100	<1	<1	<1	<3
	MW28-20211216	12/16/21	SoundEarth	190 ^x	600	<100	--	--	--	--
	MW28-20220609	06/09/22	SoundEarth	190	350	<100	--	--	--	--
	MW28-20221215	12/15/22	SoundEarth	160 ^x	<260	<100	<0.35	<1	<1	<3
MW28	MW28-20230621	06/21/23	SoundEarth	67 ^x	<250	<100	--	--	--	--
	MW28-20231204	12/04/23	SoundEarth	54 ^x	<250	<100	--	--	--	--
	MW28-20240624	06/24/24	SoundEarth	93 ^x	<300	<100	--	--	--	--
	MW28-20241216	12/16/24	SoundEarth	1,000 ^x	4,300	<100	--	--	--	--
Fairview Avenue North										
MW-C	MW-C-20130911	09/11/13	SoundEarth	<50	<250	<100	<1	<1	<1	<3
MTCA Cleanup Level				500 ⁽⁴⁾	500 ⁽⁴⁾	1,000/800 ⁽⁴⁾⁽⁵⁾	5 ⁽⁴⁾	1,000 ⁽⁴⁾	700 ⁽⁴⁾	1,000 ⁽⁴⁾



Table 3
Groundwater Analytical Results for Petroleum Hydrocarbons
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	DRPH ⁽¹⁾ (µg/L)	ORPH ⁽¹⁾ (µg/L)	GRPH ⁽²⁾ (µg/L)	Benzene ⁽³⁾ (µg/L)	Toluene ⁽³⁾ (µg/L)	Ethylbenzene ⁽³⁾ (µg/L)	Total Xylenes ⁽³⁾ (µg/L)
Harrison Street										
MW01	MW01-20110525	05/25/11	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW01-20111011	10/11/11	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW01-20130910	09/10/13	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW01-20150806	08/06/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW01-20160308	03/08/16	SoundEarth	<65	<330	<100	<0.35	<1	<1	<3
	MW01-20160712	07/12/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW01-20161018	10/18/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW01-20170124	01/24/17	SoundEarth	<25	<125	<100	<0.35	<1	<1	<3
	MW01-20170531	05/31/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW01-20171214	12/14/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW01-20180309	03/09/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW01-20180628	06/28/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW01-20180920	09/20/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW01-20181214	12/14/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
MW02	MW01-20190614	06/14/19	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW01-20191205	12/05/19	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW01-20200626	06/26/20	SoundEarth	57 ^x	<250	<100	<1	<1	<1	<3
	MW02-20110525	05/25/11	SoundEarth	100 [†]	<250	<100	<1	<1	<1	<3
MW03	MW02-20111011	10/11/11	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW02-20130911	09/11/13	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	DECOMMISSIONED 2015									
	MW03-20110527	05/27/11	SoundEarth	130 ^x	<250	<100	<1	<1	<1	<3
MW03	MW03-20111011	10/11/11	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW03-20130911	09/11/13	SoundEarth	<50	<250	<100	<1	<1	<1	<3
DECOMMISSIONED 2015										
MTCA Cleanup Level				500⁽⁴⁾	500⁽⁴⁾	1,000/800⁽⁴⁾⁽⁵⁾	5⁽⁴⁾	1,000⁽⁴⁾	700⁽⁴⁾	1,000⁽⁴⁾



Table 3
Groundwater Analytical Results for Petroleum Hydrocarbons
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	DRPH ⁽¹⁾ (µg/L)	ORPH ⁽¹⁾ (µg/L)	GRPH ⁽²⁾ (µg/L)	Benzene ⁽³⁾ (µg/L)	Toluene ⁽³⁾ (µg/L)	Ethylbenzene ⁽³⁾ (µg/L)	Total Xylenes ⁽³⁾ (µg/L)
MW26	MW26-20151210	12/10/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW26-20160307	03/07/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW26-20160712	07/12/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW26-20161018	10/18/16	SoundEarth	59 ^x	<250	<100	<0.35	<1	<1	<3
	MW26-20170124	01/24/17	SoundEarth	<60	<300	<100	<0.35	<1	<1	<3
	MW26-20170531	05/31/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW26-20170921	09/21/17	SoundEarth	130 ^x	<250	<100	<0.35	<1	<1	<3
	MW26-20171214	12/14/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW26-20180309	03/09/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW26-20180628	06/28/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW26-20180920	09/20/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW26-20181214	12/14/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
SMW06	MW26-20190614	06/14/19	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW26-20191205	12/05/19	SoundEarth	680 ^x	<250	<100	<1	<1	<1	<3
	MW26-20200626	06/26/20	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	SMW06-20130910	09/10/13	SoundEarth	130 ^x	<250	400	<1	<1	3.5	3.7
Westlake Avenue North										
SMW09	SMW09-20130910	09/10/13	SoundEarth	79 ^x	<250	<100	<1	<1	<1	<3
North-Adjoining Property										
SLU-MW01	MW01-20120229	02/29/12 ⁽⁶⁾	SoundEarth	150	<250	--	--	--	--	--
	DECOMMISSIONED 2013									
SLU-MW02	MW02-20120229	02/29/12 ⁽⁶⁾	SoundEarth	<50	<250	--	--	--	--	--
	DECOMMISSIONED 2013									
MTCA Cleanup Level				500 ⁽⁴⁾	500 ⁽⁴⁾	1,000/800 ⁽⁴⁾⁽⁵⁾	5 ⁽⁴⁾	1,000 ⁽⁴⁾	700 ⁽⁴⁾	1,000 ⁽⁴⁾

NOTES:

Red denotes concentrations exceeding the MTCA Method cleanup level for groundwater.

⁽¹⁾ Analyzed by Method NWTPH-Dx. The supply well samples collected in August 2010 were passed through a silica gel column prior to analysis to remove organic interference.

⁽²⁾ Analyzed by EPA Method 418.1 or Method NWTPH-Gx.

⁽³⁾ Analyzed by EPA Method 8260C, 8021B, or 8240.

⁽⁴⁾ MTCA Method A Cleanup Levels, Table 720-1 of WAC 173-340-900.

⁽⁵⁾ 1,000 µg/L when benzene is not present and 800 µg/L when benzene is present.

⁽⁶⁾ Sample data compiled from reports on file at the Washington State Department of Ecology.

Laboratory Notes:

^(x) The sample was centrifuged prior to analysis.

^(y) Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

^(z) The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

^(a) The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

-- = not analyzed, measured, or calculated

< = not detected at a concentration exceeding laboratory reporting limit

µg/L = micrograms per liter

DRPH = diesel-range petroleum hydrocarbons

EPA = US Environmental Protection Agency

GRPH = gasoline-range petroleum hydrocarbons

MTCA = Washington State Model Toxics Control Act

NWTPH = Northwest Total Petroleum Hydrocarbon

ORPH = heavy oil-range petroleum hydrocarbons

SoundEarth = SoundEarth Strategies, Inc.

WAC = Washington Administrative Code



Table 4
Groundwater Analytical Results for Natural Attenuation Parameters
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Well Identification	Sample Identification	Sample Date	Analytical Results									
			Dissolved Oxygen ⁽¹⁾ (mg/L)	Nitrate ⁽²⁾ (mg/L)	Total Manganese ⁽³⁾ (µg/L)	Total Iron ⁽³⁾ (mg/L)	Ferrous Iron ⁽⁴⁾ (mg/L)	Ferric Iron ⁽⁵⁾ (mg/L)	Sulfate ⁽²⁾ (mg/L)	Methane ⁽⁶⁾ (µg/L)	Ethane ⁽⁶⁾ (µg/L)	Ethene ⁽⁶⁾ (µg/L)
Boren Avenue North												
MW04	MW04-20110527	05/27/11	6.24	--	--	--	--	--	--	--	--	--
	MW04-20111012	10/12/11	6.17	--	--	--	--	--	--	--	--	--
	MW04-20130909	09/09/13	5.49	--	--	--	--	--	--	--	--	--
	MW04-20150508	05/08/15	0.433	16.7	3.32	0.0667	<0.0300	0.0667	45.6	<5	<10	<10
	MW04-20150806	08/06/15	6.09	--	--	--	--	--	--	--	--	--
	MW04-20181214	12/14/18	4.83	17.9 ^{D,H}	22.9	0.506	0.0677 ^H	0.4383	43.2 ^D	<5	<10	<10
	MW04-20190614	06/14/19	4.15	14.8 ^{D,H}	15.9	0.327	0.129	0.198	46.7 ^D	<8.63	<16.2	<15.1
	MW04-20191205	12/05/19	7.97	24.4 ^{D,H}	7.59	0.254	<0.0500	0.254	41.4 ^D	<8.63	<16.2	<15.1
	MW04-20200626	06/26/20	7.78	6.32 ^{D,H}	3.63	0.158	<0.0500 ^H	0.158	40.7 ^D	107	<16.2	<15.1
	MW04-20201211	12/11/20	6.63	7.14 ^{D,H}	11.6	0.388	<0.0500 ^H	0.388	40.0 ^D	<8.63	<16.2	<15.1
	MW04-20210623	06/23/21	2.23	4.86 ^D	24.1	1.630	<0.100 ^H	1.63	41.9 ^D	<6.75	<15.1	<14.6
	MW04-20211215	12/15/21	1.07	9.95 ^{D,H}	2.26	0.104	<0.100	0.104	33.1 ^D	<6.75	<15.1	<14.6
	MW04-20220607	06/07/22	5.75	24.6 ^{D,H}	<10	<0.5	<0.100	<0.5	35.7 ^D	<6.75	<15.1	<14.6
	MW04-20221214	12/14/22	8.16	24.4 ^{D,H}	7.44	0.203	0.0682 ^{J,H}	0.1348	36.7 ^D	<6.75	<15.1	<14.6
	MW04-20230622	06/22/23	7.79	21.8 ^{D,H}	<1	0.123	<0.150 ^H	0.123	41.4 ^D	<6.75	<15.1	<14.6
MW07	MW04-20231208	12/08/23	7.52	17.2 ^{D,H}	1.68	0.0888	<0.150 ^H	0.089	42.8 ^D	<6.75	<15.1	<14.6
	MW04-20240626	06/26/24	7.62	18.7 ^D	7.2	0.160	<1.50 ^{DH}	0.160	47.4 ^D	<5.0	<10.0	<10.0
	MW04-20241218	12/18/24	6.36	13.4 ^D	11	0.220	<0.150	0.220	49.4 ^D	<5.0	<10.0	<10.0
	MW07-20110531	05/31/11	5.70	--	--	--	--	--	--	--	--	--
	MW07-20111012	10/12/11	2.92	--	--	--	--	--	--	--	--	--
	MW07-20130909	09/09/13	2.71	--	--	--	--	--	--	--	--	--
	MW07-20150508	05/08/15	4.79	30.1	18.2	0.0825	<0.0300	0.0825	41.1	<5	<10	<10
	MW07-20150805	08/05/15	4.65	--	--	--	--	--	--	--	--	--
	MW07-20170531	05/31/17	4.45	--	--	--	--	--	--	<5	<10	<10
	MW07-20180308	03/08/18	7.75	--	--	--	--	--	--	<5	<10	<10
	MW07-20180629	06/29/18	7.38	--	--	--	--	--	--	<5	<10	<10
	MW07-20180920	09/20/18	8.76	--	--	--	--	--	--	<5	<10	<10
	MW07-20181214	12/14/18	7.57	26.5 ^{D,H}	13.5	0.117	0.0959 ^H	0.021	56.1 ^D	<5	<10	<10
	MW07-20190614	06/14/19	7.91	29.1 ^{D,H}	9.26	0.225	0.0818	0.143	51.0 ^D	<8.63	<16.2	<15.1
	MW07-20191205	12/05/19	6.85	34.9 ^{D,H}	5.89	0.203	0.0654 ^H	0.138	49.6 ^D	<8.63	<16.2	<15.1
	MW07-20200630	06/30/20	4.95	--	6.24	0.111	<0.0500 ^H	0.111	41.7 ^D	<8.63	<16.2	<15.1
	MW07-20201210	12/10/20	1.39	13.4 ^{D,H}	3.91	0.0926	<0.0500 ^H	0.093	30.7 ^D	328 ^D	<16.2	<15.1
	MW07-20210623	06/23/21	4.91	14.0 ^{D,H}	15.2	0.166	<0.100 ^H	0.166	32.0 ^D	317 ^D	<15.1	<14.6
	MW07-20211215	12/15/21	1.12	9.72 ^{D,H}	8.50	0.133	<0.100	0.133	17.4 ^D	<6.75	<15.1	<14.6
	MW07-20220607	06/07/22	7.57	34.8 ^{D,H}	86.5	<0.5	<0.100	--	38.7 ^D	<6.75	<15.1	<14.6
	MW07-20221214	12/14/22	8.46	34.2 ^{D,H}	28.0	0.327	0.205 ^H	0.122	39.9 ^D	<6.75	<15.1	<14.6
MW13	MW07-20230622	06/22/23	6.97	31.0 ^{D,H}	9.04	0.293	<0.150 ^H	0.293	41.7 ^D	<6.75	<15.1	<14.6
	MW07-20231208	12/08/23	8.22	27.9 ^{D,H}	10.5	0.280	<0.150 ^H	0.280	32.6 ^D	<6.75	<15.1	<14.6
	MW07-20240626	06/26/24	6.91	30.2 ^D	4.2	0.110	<1.50 ^{DH}	0.110	38.0 ^D	<5.0	<10	<10
	MW07-20241218	12/18/24	7.28	20.8 ^D	8.7	0.110	<0.150	0.110	33.8 ^D	<5.0	<10	<10
	MW13-20111020	10/20/11	2.12	--	--	--	--	--	--	--	--	--
MW13	MW13-20130910	09/10/13	3.67	--	--	--	--	--	--	--	--	--
	MW13-20150511	05/11/15	4.71	5.07	2.770	73.200	4.60	68.60	44.5	<5	<10	<10
	MW13-20150805	08/05/15	3.91	--	--	--	--	--	--	--	--	--
	MW13-20211216	12/16/21	4.30	--	--	--	--	--	--	--	--	--
Thomas Street												
MW16	MW16-20130911	09/11/13	3.64	--	--	--	--	--	--	--	--	--
	MW16-20150508	05/08/15	0.68	0.694	484	0.488	0.0700	0.418	7.28	<5	<10	<10
	MW16-20150805	08/05/15	0.40	--	--	--	--	--	--	--	--	--
	MW16-20151210	12/10/15	0.73	--	--	--	--	--	8.09	<5	<10	<10
	MW16-20160712	07/12/16	0.47	--	--	--	--	--	4.57	2,500 ^{ve}	<10	<10
	MW16-20170125	01/25/17	0.46	--	--	--	--	--	14.2	530	<10	<10
	MW16-20170531	05/31/17	0.65	--	--	--	--	--	--	25	<10	<10
	MW16-20170922	09/22/17	0.72	--	--	--	--	--	--	8	<10	<10
	MW16-20171229	12/29/17	2.13	--	--	--	--	--	--	340	<10	<10
	MW16-20180309	03/09/18	0.23	--	--	--	--	--	--	6.5	<10	<10
WELL DAMAGED 2018												
MW28	MW28-20190613	06/13/19	1.08	<0.500 ^{D,H}	1,140	1.100	1.02 ^H	0.080	2.10 ^D	15.3	<16.2	<15.1
	MW28-20191204	12/04/19	0.24	<0.200 ^{D,H}	651	1.550	1.26 ^H	0.290	<0.600 ^D	59	<16.2	<15.1
	MW28-20200626	06/26/20	0.55	<0.200 ^{D,H}	452	1.450	1.48 ^H	--	0.391	43.8	<16.2	<15.1
	MW28-20201211	12/11/20	1.47	<0.200 ^{D,H}	470	0.576	0.359 ^H	0.217	0.748 ^D	72.3	<16.2	<15.1
	MW28-20210623	06/23/21	3.67	<0.100 ^H	617	1.340	1.28 ^H	0.060	9.58	53.2	<15.1	<14.6
	MW28-20211216	12/16/21	0.44	0.110 ^{J,D,H}	744	7.380	1.17 ^H	6.210	8.39 ^D	143	<15.1	<14.6
	MW28-20220609	06/09/22	1.12	<0.500 ^{D,H}	678	2.840	1.14 ^H	1.700	7.32 ^D	34.3	<15.1	<14.6
	MW28-20221215	12/15/22	2.17	<2.00 ^D	512	1.340	0.826 ^H	0.514	1.59	13.1	<15.1	<14.6
	MW28-20230621	06/21/23	7.75	0.136 ^H	321	2.600	0.305 ^H	2.295	3.31	7.82	<15.1	<14.6
	MW28-20231204	12/04/23	9.35	<10.0 ^D	563	0.904	<0.150 ^H	0.904	<60.0 ^{D*}	55.4	<15.1	<14.6
	MW28-20240624	06/24/24	8.39	0.668 ^H	1,800	2.600	0.155 ^H	2.445	5.15	34.1	<10.0	<10.0
MW28	MW28-20241216	12/16/24	8.48	<0.150 ^H	1,200	29.00	3.79 ^{DH}	25.2	3.15	59.90	<10.0	<10.0



Table 4
Groundwater Analytical Results for Natural Attenuation Parameters
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Well Identification	Sample Identification	Sample Date	Analytical Results									
			Dissolved Oxygen ⁽¹⁾ (mg/L)	Nitrate ⁽²⁾ (mg/L)	Total Manganese ⁽³⁾ (µg/L)	Total Iron ⁽³⁾ (mg/L)	Ferrous Iron ⁽⁴⁾ (mg/L)	Ferric Iron ⁽⁵⁾ (mg/L)	Sulfate ⁽²⁾ (mg/L)	Methane ⁽⁶⁾ (µg/L)	Ethane ⁽⁶⁾ (µg/L)	Ethene ⁽⁶⁾ (µg/L)
Harrison Street												
MW26	MW26-20181214	12/14/18	0.62	5.06 ^{D,H}	35.4	0.134	0.133 ^H	0.001	34.2 ^D	1,500	<10	<10
	MW26-20190614	06/14/19	0.59	7.10 ^{D,H}	62.1	0.29	0.136	0.154	45.0 ^D	4,120 ^D	<324 ^D	<303 ^D
	MW26-20191205	12/05/19	0.7	1.74 ^D	906	4.830	6.12 ^{D,H}	--	27.8 ^D	3.80 ^D	<16.2	<15.1
	MW26-20200626	06/26/20	0.19	0.208 ^H	806	0.656	0.595 ^H	0.061	37.4 ^D	1,340 ^D	<16.2	<15.1
	MW26-20201211	12/11/20	0.64	<0.100 ^H	605	0.230	0.195 ^H	0.035	19.5 ^D	263 ^D	<16.2	<15.1
	MW26-20210623	06/23/21	0.33	<0.400 ^{D,H}	579	0.497	0.382 ^H	0.115	32.5 ^D	12.9	<15.1	<14.6
	MW26-20211215	12/15/21	0.55	<0.100 ^H	496	0.371	0.126 ^H	0.245	29.3 ^D	83.7	<15.1	<14.6
	MW26-20220608	06/08/22	5.92	<3.00 ^{D,H}	587	7.330	1.17 ^H	6.160	17.8 ^D	8.05	<15.1	<14.6
	MW26-20221214	12/14/22	3.27	0.189 ^H	1,270	28.10	1.42 ^{D,H}	26.680	30.1 ^{D,B}	13.9	<15.1	<14.6
	MW26-20230622	06/22/23	2.01	0.133 ^H	842	4.320	0.476 ^H	3.844	32.1 ^D	<6.75	<15.1	<14.6
	MW26-20231206	12/06/23	9.56	<0.100 ^H	281	1.730	<0.150	1.730	13.2 ^H	<6.75	<15.1	<14.6
	MW26-20240625	06/25/24	3.91	<0.200	1,200	20.00	1.35 ^{D,H}	18.65	33.5 ^D	11.3	<10.0	<10.0
MW26-20241218	12/18/24	0.71	0.827 ^H	920	2.100	0.330	1.77	36.7 ^H	<5.0	<10.0	<10.0	

NOTES:

Analyses performed by Friedman & Bruya, Inc. or Fremont Analytical Inc. of Seattle, Washington.

⁽¹⁾Parameter is measured in the field using water quality meter with flow-through cell. The reported value is the last reading prior to sampling groundwater.

⁽²⁾Analyzed by EPA Method 300.0.

⁽³⁾Analyzed by EPA Method 200.8.

⁽⁴⁾Analyzed by Standard Method 3500-Fe B.

⁽⁵⁾Ferric iron concentration = total iron concentration – ferrous iron concentration.

⁽⁶⁾Analyzed by Method RSK-175.

Laboratory Notes:

^BIndicates a detection in the ICB or CCB.

^DDilution was required.

^HHolding times for preparation or analysis exceeded.

^JAnalyte detected below Reporting Limit.

^J The analyte result in the laboratory control sample is out of control limits. The reported concentrations is an estimate.

^{RA} Indicates reanalysis with background correction for turbidity.

^{VE} The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

* Flagged value is not within established control limits.

* Anomalous reading, attributed to meter error.

-- = not measured/ not applicable

< = not detected at a concentration exceeding the laboratory reporting limit

µg/L = micrograms per liter

CCB = Continued Calibration Blank

EPA = US Environmental Protection Agency

ICB = Initial Calibration Blank

mg/L = milligrams per liter



Table 5
Groundwater Geochemical and Water Quality Parameters
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Well Identification	Sample Identification	Sample Date	pH ⁽¹⁾	ORP ⁽¹⁾ (mV)	Dissolved Oxygen ⁽¹⁾ (mg/L)	Specific Conductivity ⁽¹⁾ (mS/cm)	Turbidity ⁽¹⁾ (NTU)	Temperature ⁽¹⁾ (°C)	Alkalinity ⁽²⁾ (mg/L CaCO ₃)	Total Organic Carbon ⁽³⁾ (mg/L)
Troy Laundry Property										
MW17	MW17-20150506	05/06/15	6.87	169.0	3.30	0.387	1.01	14.53	--	--
	MW17-20150804	08/04/15	6.17	129.0	4.45	0.477	2.61	15.52	--	--
	MW17-20151207	12/07/15	6.89	221.5	4.12	0.398	3.3	14.60	--	--
	MW17-20160308	03/08/16	6.67	160	1.39	0.365	0.8	14.30	--	--
	MW17-20160714	07/14/16	6.62	51.1	3.59	0.355	1.19	14.36	--	--
	MW17-20161020	10/20/16	6.75	203.3	0.84	0.384	2.72	14.44	--	--
	MW17-20170126	01/26/17	6.66	-40.7	0.57	0.386	2.24	14.14	--	--
	MW17-20170601	06/01/17	6.50	-147.6	0.54	0.375	12.61	14.48	--	--
	MW17-20170923	09/23/17	6.34	170.4	0.31	0.509	3.96	15.13	--	--
	MW17-20171216	12/16/17	6.82	22.3	0.26	0.501	3.37	12.60	--	--
	MW17-20180310	03/10/18	6.82	22.3	0.26	0.501	3.37	12.60	--	--
	MW17-20180630	06/30/18	6.85	14.8	1.07	0.723	8.60	14.87	--	--
	MW17-20180922	09/22/18	6.79	16.9	0.17	0.710	9.38	15.20	--	--
	MW17-20181215	12/15/18	6.58	18.8	0.41	0.677	6.70	14.77	--	--
	MW17-20190615	06/15/19	6.67	83.8	0.36	0.634	3.81	14.90	--	--
	MW17-20191207	12/07/19	6.62	-9.8	1.34	0.581	2.12	11.32	--	--
	MW17-20200627	06/27/20	6.68	-82.3	3.82	0.537	9.64	15.00	--	--
MW18	MW17-20201212	12/12/20	6.58	-19.6	1.09	0.526	9.28	14.38	--	--
	MW17-20210625	06/25/21	6.67	-110.6	0.94	0.507	1.42	14.71	--	--
	MW17-20211217	12/17/21	6.74	-41.9	0.12	0.670	--	14.50	--	--
	MW18-20150506	05/06/15	6.52	172.5	1.99	0.480	0.88	14.34	142	<0.500
	MW18-20150803	08/03/15	5.75	82.2	2.66	0.598	2.74	15.70	--	--
	MW18-20151208	12/08/15	7.74	115.6	1.64	0.594	1.85	14.08	--	--
	MW18-20160308	03/08/16	6.41	156.7	1.30	0.469	1.3	14.26	--	1.01
	MW18-20160608	06/08/16	6.66	8.8	1.5	--	--	--	--	--
	MW18-20160616	06/16/16	6.2	0.8	1.4	--	--	--	--	--
	MW18-20160623	06/23/16	5.87	-57.9	0.43	--	--	--	--	--
	MW18-20160629	06/29/16	5.43	-33	1.08	--	--	--	--	--
	MW18-20160706	07/06/16	5.29	-33.7	1.8	--	--	--	--	--
	MW18-20160714	07/14/16	5.43	8.7	0.47	0.883	9.3	14.89	--	2,300
	MW18-20160825	08/25/16	4.97	38.9	0.55	--	--	--	--	--
	MW18-20161020	10/20/16	5.46	65.5	0.79	1.220	7.69	14.83	--	1,900
	MW18-20170126	01/26/17	5.65	7.2	1.50	0.956	8.1	13.85	--	823
	MW18-20170601	06/01/17	6.19	-167.3	0.58	1.284	6.02	15.21	--	1,090 ^U
	MW18-20170923	09/23/17	6.13	48.1	0.48	1.014	55.7	16.37	--	253 ^U
	MW18-20171216	12/16/17	6.52	-21.2	0.77	0.911	40.9	12.04	--	173 ^U
	MW18-20180310	03/10/18	6.18	-8.0	0.38	0.833	27.1	14.73	--	108 ^D
	MW18-20180630	06/30/18	6.30	-31.9	0.68	1.008	12.4	15.49	--	47.2 ^D
	MW18-20180922	09/22/18	6.31	-18.7	0.19	1.000	20.8	16.10	--	37.8 ^U
	MW18-20181215	12/15/18	6.6	-4.0	0.62	0.980	9.34	15.39	533	16.9
	MW18-20190615	06/15/19	6.23	69.2	0.30	1.043	10.98	15.71	531	10.6
	MW18-20191207	12/07/19	5.82	-137.4	0.69	0.870	15.0	15.00	497	9.61 ^B
	MW18-20200627	06/27/20	6.41	-85.1	0.18	0.950	9.46	15.70	536	5.95
	MW18-20201212	12/12/20	6.21	-88.1	2.98	0.889	4.65	14.98	451	4.30
	MW18-20210625	06/25/21	6.29	-86.0	0.91	0.873	7.91	15.35	454 ^H	6.85
	MW18-20211217	12/17/21	6.20	-52.8	0.13	1.080	--	14.9	503	11.9
	MW18-20220609	06/09/22	6.30	-19.1	0.30	0.870	16.50	14.3	487	7.97
	MW18-20221215	12/15/22	6.17	-59.7	0.16	0.860	22.40	14.3	449	6.18
	MW18-20230622	06/22/23	6.27	-60.6	0.18	0.832	13.10	15.2	419	5.69
	MW18-20231207	12/07/23	6.14	-75.5	0.23	1.060	8.76	14.9	537	5.31
	MW18-20240627	06/27/24	6.17	-63.7	0.86	1.092	8.99	15.22	565	4.16
	MW18-20241219	12/19/24	6.22	-84.4	0.17	0.857	11.2	15.01	430 ^U	3.97
MW19	MW19-20150507	05/07/15	6.68	156.1	1.75	0.502	1.27	14.44	144	<0.500
	MW19-20150803	08/03/15	5.67	222.2	2.33	0.523	5.8	15.47	--	--
	MW19-20151207	12/07/15	7.08	95.6	0.99	0.685	4.29	14.64	--	--
	MW19-20160308	03/08/16	6.27	154.7	1.29	0.613	0.84	14.73	--	--
	MW19-20160713	07/13/16	5.62	5.7	0.32	0.821	1017	15.59	--	--
	MW19-20160825	08/25/16	4.82	31.4	0.73	--	--	--	--	--
	MW19-20161021	10/21/16	5.62	27.0	0.15	1.404	3.00	15.59	--	--
	MW19-20170125	01/25/17	5.40	-10.4	0.40	1.120	7.98	14.40	--	--
	MW19-20170601	06/01/17	5.34	-148.6	0.53	0.963	4.02	15.99	--	--
	MW19-20170923	09/23/17	5.47	169.2	0.77	0.816	17.8	18.07	--	--
	MW19-20171216	12/16/17	6.39	-30.9	0.58	0.602	4.92	13.43	--	--
	MW19-20180310	03/10/18	6.06	-14.3	0.26	0.542	14.0	15.36	--	--
	MW19-20180630	06/30/18	6.15	-22.7	0.86	0.744	9.95	16.54	--	--
	MW19-20180922	09/22/18	6.23	-26.7	0.16	0.800	37.30	16.90	--	--
	MW19-20190615	06/15/19	6.24	40.6	0.28	1.060	11.4	16.41	556	--
	MW19-20191207	12/07/19	5.57	-134.0	0.54	0.785	--	15.75	473	--
	MW19-20200627	06/27/20	6.40	-70.4	0.27	1.000	39.1	16.60	570	--
	MW19-20201212	12/12/20	9.26	-275.8	11.88*	0.100	4.9	15.79	412	--
	MW19-20210625	06/25/21	6.33	-67.2	0.81	0.964	26.2	16.19	520 ^H	--
	MW19-20211217	12/17/21	6.20	-25.4	0.08	1.070	--	15.7	488	--
	MW19-20220609	06/09/22	6.21	-18.6	0.35	0.720	8.47	15.2	373	--
	MW19-20221216	12/16/22	6.17	-49.4	0.19	0.699	12.10	15.4	328	--
	MW19-20230622	06/22/23	6.15	-17.7	0.15	1.410	32.90	15.7	396	--
	MW19-20231207	12/07/23	6.03	-271.8	0.62	0.843	73.70	15.21	346	--
	MW19-20240627	06/27/24	6.12	-20.4	0.16	0.828	41.8	16.0	380	--
	MW19-20241219	12/19/24	6.22	-8.7	0.29	0.855	41.4	15.6	423 ^U	--



Table 5
Groundwater Geochemical and Water Quality Parameters
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Well Identification	Sample Identification	Sample Date	pH ⁽¹⁾	ORP ⁽¹⁾ (mV)	Dissolved Oxygen ⁽¹⁾ (mg/L)	Specific Conductivity ⁽¹⁾ (mS/cm)	Turbidity ⁽¹⁾ (NTU)	Temperature ⁽¹⁾ (°C)	Alkalinity ⁽²⁾ (mg/L CaCO ₃)	Total Organic Carbon ⁽³⁾ (mg/L)
MW20	MW20-20150506	05/06/15	6.91	287.1	0.59	0.678	0.00	13.68	--	--
	MW20-20150803	08/03/15	6.11	175.6	1.11	0.784	9.4	14.45	--	--
	MW20-20151207	12/07/15	6.86	228.5	0.85	0.716	9.0	13.81	--	--
	MW20-20160309	03/09/16	6.72	66.1	0.41	0.711	1.2	13.81	--	--
	MW20-20160715	07/15/16	6.71	201.4	0.64	0.726	2.14	14.28	--	--
	MW20-20161020	10/20/16	6.96	92.0	0.92	0.731	1.90	14.30	--	--
	MW20-20170125	01/25/17	6.82	-0.1	0.67	0.732	0.56	0.67	--	--
	MW20-20170601	06/01/17	6.68	-175.7	0.85	0.735	3.07	14.38	--	--
	MW20-20170924	09/24/17	6.63	177.6	0.57	0.779	2.12	15.25	--	--
	MW20-20171216	12/16/17	6.36	47.0	0.27	0.895	2.14	12.31	--	--
	MW20-20180310	03/10/18	6.71	61.4	0.26	0.855	6.07	14.16	--	--
	MW20-20180630	06/30/18	6.71	21.7	1.64	0.884	3.18	15.06	--	--
	MW20-20180922	09/22/18	6.80	13.9	0.19	0.850	3.18	15.10	--	--
	MW20-20181215	12/15/18	6.61	28.0	0.37	0.827	0.73	14.56	--	--
	MW20-20190615	06/15/19	6.72	95.1	0.50	0.928	1.70	14.94	--	--
	MW20-20191207	12/07/19	6.66	-14.9	1.23	0.883	0.99	11.37	--	--
	MW20-20200627	06/27/20	6.66	-58.2	1.60	0.970	2.15	14.90	--	--
MW21	MW20-20201212	12/12/20	6.79	135.9	0.42	1.131	1.63	14.39	--	--
	MW20-20210625	06/25/21	6.54	-46.0	1.20	0.984	1.07	14.71	--	--
	MW20-20211217	12/17/21	6.58	-9.0	0.18	1.150	--	14.40	--	--
	MW21-20150506	05/06/15	6.58	295.0	0.45	0.675	0.00	14.06	--	--
	MW21-20150804	08/04/15	6.09	77.5	0.68	0.980	2.61	15.13	--	--
	MW21-20151208	12/08/15	7.91	96.8	0.78	1.486	0.83	14.03	--	--
	MW21-20160309	03/09/16	5.03	137.3	1.84	0.879	1.28	14.19	--	2.29
	MW21-20160608	06/08/16	6.28	-0.5	2.46	--	--	--	--	--
	MW21-20160616	06/16/16	--	--	--	--	--	--	--	--
	MW21-20160623	06/23/16	--	--	--	--	--	--	--	--
	MW21-20160629	06/29/16	5.5	52.6	1.95	--	--	--	--	--
	MW21-20160706	07/06/16	5.27	47.1	2.16	--	--	--	--	--
	MW21-20160713	07/13/16	5.41	61.2	0.45	1.104	10.3	14.73	--	1,800
	MW21-20160825	08/25/16	4.97	67.9	0.48	--	--	--	--	--
	MW21-20161020	10/20/16	5.64	71.7	1.26	1.268	>2000	14.61	--	1,800
	MW21-20170126	01/26/17	5.78	-22.0	0.50	0.846	3.59	13.78	--	884
	MW21-20170601	06/01/17	5.69	246.8	0.54	0.920	5.90	14.94	--	755 ^D
	MW21-20170923	09/23/17	5.36	14.9	0.69	1.180	4.42	14.67	--	871 ^D
	MW21-20171216	12/16/17	5.54	26.3	2.67	1.146	6.00	14.81	--	722 ^U
	MW21-20180310	03/10/18	5.27	58.1	0.71	1.102	4.29	14.43	--	466 ^U
	MW21-20180630	06/30/18	5.18	49.5	0.34	1.546	4.05	14.94	--	718 ^U
	MW21-20180922	09/22/18	5.72	97.2	0.33	1.090	6.84	16.00	--	549 ^U
	MW21-20181215	12/15/18	5.67	-20.1	1.57	1.041	6.10	15.41	--	124 ^U
	MW21-20190615	06/15/19	5.84	1.0	0.19	1.023	2.81	15.27	--	163 ^U
	MW21-20191207	12/07/19	5.55	-142.2	0.77	0.913	7.64	14.81	--	110 ^{BE}
	MW21-20200627	06/27/20	5.26	83.0	0.17	0.930	61.80	15.80	--	--
	MW21-20201212	12/12/20	5.8	157.2	0.20	0.934	15.30	14.84	--	191 ^U
	MW21-20210625	06/25/21	5.57	12.9	0.49	0.836	4.84	15.20	--	349 ^U
	MW21-20211217	12/17/21	8.69	-25.8	0.68	0.963	--	14.44	--	330
	MW21-20220609	06/09/22	5.75	-13.0	0.30	0.840	25.0	14.64	--	123
	MW21-20221215	12/15/22	6.82	118.4	0.14	1.650	38.1	14.30	--	104 ^U
	MW21-20230623	06/23/23	6.12	0.6	0.20	1.010	16.6	14.90	--	25.5
	MW21-20231207	12/07/23	5.96	-1.8	0.35	0.980	31.5	14.50	--	109
	MW21-20240627	06/27/24	5.97	10.8	0.63	0.988	19.1	15.08	--	21.8
	MW21-20241220	12/20/24	6.22	4.9	0.33	0.948	8.32	14.87	--	103 ^D
MW22	MW22-20150506	05/06/15	6.34	280.6	0.30	0.707	0.00	14.4	--	--
	MW22-20150804	08/04/15	6.29	103.9	0.96	0.794	6.8	15.05	--	--
	MW22-20151208	12/08/15	5.91	212.8	2.18	0.702	0.4	14.49	--	--
	MW22-20160308	03/08/16	6.34	153.8	0.54	0.579	0.81	14.46	--	--
	MW22-20160608	06/08/16	6	-3.2	1.55	--	--	--	--	--
	MW22-20160616	06/16/16	4.99	95.2	1.65	--	--	--	--	--
	MW22-20160623	06/23/16	5.1	64	0.68	--	--	--	--	--
	MW22-20160629	06/29/16	5.22	84.8	1.85	--	--	--	--	--
	MW22-20160706	07/06/16	5.17	26.1	1.88	--	--	--	--	--
	MW22-20160713	07/13/16	5.55	88.1	0.42	1.276	7.26	14.85	--	--
	MW22-20160825	08/25/16	5.06	21.2	0.42	--	--	--	--	--
	MW22-20161020	10/20/16	5.48	108.8	0.24	1.408	8.66	14.86	--	--
	MW22-20170126	1/26/2017	5.55	21.2	0.27	1.185	4.83	14.23	--	--
	MW22-20170601	06/01/17	5.67	239.2	0.62	1.118	5.32	15.32	--	--
	MW22-20170923	09/23/17	5.38	104.1	0.27	1.290	3.52	15.12	--	--
	MW22-20171216	12/16/17	5.44	84.2	0.64	1.186	7.21	14.83	--	--
	MW22-20180310	03/10/18	5.32	82	6.61	0.868	4.57	14.44	--	--
	MW22-20180630	06/30/18	5.47	41.9	0.23	1.128	5.12	15.74	--	--
	MW22-20180922	09/22/18	5.94	73.1	0.38	0.820	5.67	17.00	--	--
	MW22-20181215	12/15/18	5.67	18.4	0.67	0.817	8.6	15.50	269	388 ^U
	MW22-20190615	06/15/19	5.68	106.8	0.38	0.858	7.40	15.63	273	286 ^U
	MW22-20191207	12/07/19	5.69	-76.4	2.02	0.803	71.20	12.14	283	255 ^{BE}
	MW22-20200627	06/27/20	5.82	3.4	0.40	0.720	83.30	15.90	182	206 ^U
	MW22-20201212	12/12/20	6.01	154.5	0.31	0.817	25.80	14.97	500	95.5 ^D
	MW22-20210625	06/25/21	5.91	-4.9	0.55	0.679	8.34	15.30	243 ^H	150 ^D
	MW22-20211217	12/17/21	9.01	-48.1	0.68	0.749	--	14.33	287	133 ^U
	MW22-20220609	06/09/22	5.95	13.8	0.35	0.673	6.70	14.73	304	42
	MW22-20221216	12/16/22	6.09	-13	0.13	0.749	35.60	14.40	289	105 ^U
	MW22-20230623	06/23/23	6.2	-37.1	0.13	0.827	15.40	15.30	317	82.7
	MW22-20231207	12/07/23	5.97	-229.7	0.68	0.943	15.10	14.53	346	76.8
	MW22-20240627	06/27/24	6.09	-13.8	0.08	0.955	11.7	15.1	399	81.2
	MW22-20241220	12/20/24	6.22	1.7	0.20	0.976	13.1	14.95	528 ^D	85.1 ^D



Table 5
Groundwater Geochemical and Water Quality Parameters
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Well Identification	Sample Identification	Sample Date	pH ⁽¹⁾	ORP ⁽¹⁾ (mV)	Dissolved Oxygen ⁽¹⁾ (mg/L)	Specific Conductivity ⁽¹⁾ (mS/cm)	Turbidity ⁽¹⁾ (NTU)	Temperature ⁽¹⁾ (°C)	Alkalinity ⁽²⁾ (mg/L CaCO ₃)	Total Organic Carbon ⁽³⁾ (mg/L)
MW23	MW23-20150507	05/07/15	6.09	223.7	2.19	0.452	0.00	14.65	106	<0.500
	MW23-20150804	08/04/15	6.40	105.5	0.73	0.582	6.8	15.42	--	--
	MW23-20151208	12/08/15	5.80	197	2.12	0.548	12.6	15.10	--	--
	MW23-20160308	03/08/16	6.30	92.5	0.49	0.575	1.2	14.78	--	3.14
	MW23-20160608	06/08/16	5.14	66.9	3.15	--	--	--	--	--
	MW23-20160616	06/16/16	4.77	109.5	2.00	--	--	--	--	--
	MW23-20160623	06/23/16	4.75	58.8	0.94	--	--	--	--	--
	MW23-20160629	06/29/16	4.73	92.3	2.40	--	--	--	--	--
	MW23-20160706	07/06/16	4.74	42	2.04	--	--	--	--	--
	MW23-20160714	07/14/16	5.26	38	0.23	1.339	8.0	15.06	--	2,300
	MW23-20160825	08/25/16	4.68	64.2	0.69	--	--	--	--	--
	MW23-20161020	10/20/16	5.38	45.5	0.20	1.637	2.53	15.12	--	2,300
	MW23-20170126	01/26/17	5.71	-43.40	14.39	0.878	8.03	14.39	--	520.00
	MW23-20170601	06/01/17	5.80	232.1	0.49	1.542	5.60	15.60	--	1,620 ^U
	MW23-20170923	09/23/17	5.69	-4.4	0.46	1.362	7.30	15.45	--	1,160 ^U
	MW23-20171216	12/16/17	5.96	-6.3	0.84	0.973	18.0	15.23	--	865 ^U
	MW23-20180310	03/10/18	5.85	-1.4	2.25	0.802	34.1	14.92	--	127 ^U
	MW23-20180630	06/30/18	6.15	-82.6	0.70	1.228	178.0	15.80	--	198 ^D
	MW23-20180922	09/22/18	6.52	11.1	0.31	0.950	17.5	17.00	--	159 ^U
	MW23-20181215	12/15/18	6.30	-72.9	0.79	1.118	40.8	15.89	600	148 ^U
	MW23-20190615	06/15/19	6.20	89.0	0.50	1.219	20.0	15.96	639	60.7 ^U
	MW23-20191207	12/07/19	6.24	-42.8	2.12	1.070	33.3	12.50	614	17.4 ^B
	MW23-20200627	06/27/20	6.13	-21.8	0.18	0.950	7.24	16.00	481	6.41
	MW23-20201212	12/12/20	6.33	136.3	0.29	0.885	12.60	15.16	436	7.90
	MW23-20210625	06/25/21	6.29	-43.7	0.29	0.763	6.04	15.80	382 ^H	6.65
	MW23-20211217	12/17/21	9.28	-129.2	0.39	0.787	--	14.47	374	6.10
	MW23-20240627	06/27/24	6.28	-31.0	0.53	0.942	7.25	15.35	440	2.98
	MW23-20241219	12/19/24	6.42	-52.1	0.92	0.809	1.39	15.23	491 ^U	3.40
MW24	MW24-20150506	05/06/15	6.03	182.9	1.04	0.454	1.81	14.91	172	1.12
	MW24-20150804	08/04/15	5.80	83.7	0.45	0.563	2.89	16.05	--	--
	MW24-20151208	12/08/15	7.62	120.8	1.00	0.685	1.29	15.10	--	--
	MW24-20160309	03/09/16	6.27	113.7	0.38	0.589	1	15.07	--	2.19
	MW24-20160608	06/08/16	6.73	-69.2	2.34	--	--	--	--	--
	MW24-20160616	06/16/16	5.92	-3	1.59	--	--	--	--	--
	MW24-20160623	06/23/16	5.83	-20	0.87	--	--	--	--	--
	MW24-20160629	06/29/16	5.83	36.1	1.54	--	--	--	--	--
	MW24-20160706	07/06/16	5.67	19.7	1.54	--	--	--	--	--
	MW24-20160715	07/15/16	6.00	31.9	0.29	1.142	8	15.39	--	1,000
	MW24-20160825	08/25/16	5.30	30.5	0.24	--	--	--	--	--
	MW24-20161020	10/20/16	5.93	27.5	0.94	1.440	3.56	15.22	--	640
	MW24-20170125	01/25/17	5.49	-33.5	1.10	0.917	589	14.56	--	375
	MW24-20170601	06/01/17	5.75	240.7	0.38	0.998	3034	15.38	--	1,470 ^U
	MW24-20170924	09/24/17	5.54	76.3	0.27	0.641	122	16.06	--	390 ^D
	MW24-20171216	12/16/17	5.93	-33.4	2.69	0.579	50.2	14.83	--	233 ^U
	MW24-20180310	03/10/18	5.73	17.4	0.70	0.614	72.4	14.77	--	22.1 ^U
	MW24-20180630	06/30/18	5.60	-43.1	0.44	1.393	15.1	15.81	--	770 ^U
	MW24-20180922	09/22/18	6.08	18.9	3.20	0.760	92.4	17.10	--	45.5 ^U
	MW24-20181215	12/15/18	6.08	-0.7	0.44	0.735	72.8	15.44	358	52.2 ^U
	MW24-20190615	06/15/19	5.93	-2.8	0.29	0.798	7.68	16.00	414	20.5
	MW24-20191207	12/07/19	5.66	-139.0	0.66	0.779	20.4	15.21	434	12.6 ^B
	MW24-20200627	06/27/20	6.24	-47.0	0.26	0.860	15.9	15.90	468	8.44
	MW24-20201212	12/12/20	6.08	-26.1	2.03	0.809	4.85	15.09	436	6.95
	MW24-20210625	06/25/21	6.16	-56.4	0.93	0.862	6.98	15.50	401 ^H	7.52
	MW24-20211217	12/17/21	6.16	-36.0	0.12	1.110	--	15.00	488	<0.500
	MW24-20220609	06/09/22	6.19	-16.8	0.32	0.723	0.3	15.01	442	5.79
	MW24-20221216	12/16/22	6.26	-24.7	0.23	0.837	9.43	14.70	440	8.08 ^B
	MW24-20230623	06/23/23	6.37	-23.1	0.23	0.920	6.78	15.10	431	4.60
	MW24-20231207	12/07/23	6.21	-53.5	0.88	0.910	3.57	14.90	446	4.24
	MW24-20240627	06/27/24	6.26	-43.5	1.53	0.994	19.4	15.28	501	3.13
	MW24-20241220	12/20/24	6.30	-81.0	1.08	0.812	3.67	15.00	435 ^D	3.07
MW25	MW25-20150507	05/07/15	6.31	140.5	2.87	0.498	76.5	14.54	112	<0.500
	MW25-20150805	08/05/15	5.67	158.1	1.47	0.667	2.3	15.16	--	--
	MW25-20151209	12/09/15	7.94	114.9	1.55	0.881	7.6	15.12	--	--
	MW25-20160308	03/08/16	6.25	171.8	0.79	0.524	1.2	15.05	--	--
	MW25-20160713	07/13/16	5.60	-13.5	0.29	0.933	>2,000	15.39	--	--
	MW25-20161019	10/19/16	5.40	22.2	0.18	1.304	9.14	15.48	--	--
	MW25-20170125	01/25/17	5.77	-134.5	0.37	0.712	4.18	14.68	--	--
	MW25-20170601	06/01/17	5.81	-136.3	0.31	1.140	4.82	15.67	--	--
	MW25-20170923	09/23/17	6.17	66.3	0.37	1.103	14.6	16.86	--	--
	MW25-20171216	12/16/17	6.61	-35.3	0.50	1.052	8.68	13.67	--	--
	MW25-20180310	03/10/18	6.22	-19.9	0.32	0.890	9.10	15.52	--	--
	MW25-20180630	06/30/18	6.48	-55.4	0.67	1.381	13.10	16.15	--	--
	MW25-20180922	09/22/18	6.48	-51.4	0.09	1.380	17.50	16.20	--	--
	MW25-20181215	12/15/18	6.42	-2.4	0.69	1.306	5.21	15.84	745	18.4
	MW25-20190615	06/15/19	6.22	-48.1	0.59	1.067	3.92	16.27	575	25.8
	MW25-20191207	12/07/19	6.16	-16.5	0.63	0.810	7.61	17.58	424	6.87 ^B
	MW25-20200627	06/27/20	6.2	-37.5	0.23	0.657	14.6	16.20	322	5.21
	MW25-20201212	12/12/20	6.25	-52.3	23.36*	0.806	15.0	15.50	412	9.57
	MW25-20210625	06/25/21	6.19	-113.2	0.82	0.799	7.0	15.90	377 ^H	7.50
	MW25-20211217	12/17/21	6.35	-56.5	0.24	1.020	--	15.80	431	4.18
	MW25-20220609	06/09/22	6.54	-22.1	0.37	0.760	16.5	15.20	352	2.29
	MW25-20221216	12/16/22	6.41	-60.2	0.17	0.614	3.2	15.50	260	1.16
	MW25-20230623	06/23/23	6.52	-85.1	0.22	0.581	3.31	16.30	218	1.56
	MW25-20231207	12/07/23	6.26	-295.1	0.66	0.618	5.66	15.46	205	1.59
	MW25-20240627	06/27/24	6.32	-26.3	0.42	0.565	5.21	16.1	210	1.42
	MW25-20241219	12/19/24	6.40	-58.4	0.27	0.547	9.19	15.82	237 ^U	1.37



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Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Well Identification	Sample Identification	Sample Date	pH ⁽¹⁾	ORP ⁽¹⁾ (mV)	Dissolved Oxygen ⁽¹⁾ (mg/L)	Specific Conductivity ⁽¹⁾ (mS/cm)	Turbidity ⁽¹⁾ (NTU)	Temperature ⁽¹⁾ (°C)	Alkalinity ⁽²⁾ (mg/L CaCO ₃)	Total Organic Carbon ⁽³⁾ (mg/L)
IW04	IW04-20150508	05/08/15	6.58	160.2	6.28*	0.322	15.1	14.80	88.0	<0.500
	IW04-20160309	03/09/16	6.08	-18.6	0.55	0.579	3.5	14.18	--	--
	IW04-20160714	07/14/16	5.17	58.2	0.43	1.401	19.8	14.76	--	--
	IW04-20161021	10/21/16	5.30	27.5	0.10	1.575	7.71	15.01	--	--
	IW04-20170126	01/26/17	5.40	-18.0	0.71	1.288	17.7	14.11	--	--
	IW04-20170601	06/01/17	5.78	-151.8	0.62	0.809	12.7	14.99	--	--
	IW04-20170923	09/23/17	5.99	2.7	0.84	1.189	21.7	18.00	--	--
	IW04-20171216	12/16/17	6.37	-47.8	0.37	0.940	18.8	13.01	--	--
	IW04-20180310	03/10/18	6.22	-40.3	0.82	0.792	56.3	14.77	--	--
	IW04-20180630	06/30/18	6.29	-59.3	0.89	0.914	18	15.59	--	--
	IW04-20180922	09/22/18	6.13	26.1	0.21	0.318	5.1	16.20	--	--
	IW04-20181215	12/15/18	6.32	-26.6	0.64	0.969	14.7	15.27	478	157 ^U
	IW04-20190615	06/15/19	6.32	-60.8	0.24	1.112	13.2	15.48	611	148 ^U
	IW04-20191207	12/07/19	6.41	-24.1	0.98	1.059	22.6	11.91	595	94.8 ^{BE}
	IW04-20200627	06/27/20	6.12	-0.8	5.31*	0.960	9.17	15.40	517	88.7 ^U
	IW04-20201212	12/12/20	9.08	-194.2	2.00	0.910	11.48	15.07	500	90.3 ^U
	IW04-20210625	06/25/21	6.39	-93	0.76	0.865	24.4	15.23	450 ^H	93.1 ^U
	IW04-20211217	12/17/21	6.30	-68.3	0.19	1.040	--	15.00	458	101 ^D
	IW04-20220609	06/09/22	6.42	-37.1	0.35	0.880	14.4	14.30	460	75.6 ^U
	IW04-20221215	12/15/22	6.21	-97.1	0.17	0.813	9.96	14.50	312	30.5 ^U
	IW04-20230622	06/22/23	6.36	-118.9	0.23	0.762	7.63	15.30	285	24.3
	IW04-20231207	12/07/23	5.96	-273.6	0.68	0.819	5.42	14.66	260	21.5
	IW04-20240626	06/26/24	6.30	-78.6	0.31	0.773	4.34	15.5	248	15.3
	IW04-20241219	12/19/24	6.18	-117.8	0.41	0.794	5.33	15.18	216 ^U	16.6
IW06	IW06-20150507	05/07/15	6.70	262.1	7.55*	0.224	17.83	15.02	--	--
	IW06-20180310	03/10/18	5.97	-162.5	0.34	0.284	8.41	14.84	--	--
	IW06-20180630	06/30/18	6.25	-95.9	0.67	0.312	6.99	15.87	--	--
	IW06-20180922	09/22/18	6.35	-55.9	0.17	0.920	43.3	16.20	--	--
	IW06-20181215	12/15/18	6.20	-9.7	0.43	0.297	5.60	15.51	--	--
	IW06-20190615	06/15/19	5.96	67.7	0.58	0.471	11.50	15.81	--	--
	IW06-20191207	12/07/19	6.45	-4.5	0.88	0.446	0.21	12.05	--	--
	IW06-20200627	06/27/20	6.07	-41.9	5.72*	0.749	12.1	15.50	--	--
	IW06-20201212	12/12/20	8.35	-201.9	1.95	0.541	3.66	15.24	--	--
	IW06-20210625	06/25/21	6.09	-98.5	1.16	0.656	11.90	15.38	--	--
	IW06-20211217	12/17/21	6.15	58.2	0.60	0.605	--	15.10	--	--
	IW06-20220609	06/09/22	6.38	217.1	0.53	0.510	7.26	14.20	--	--
	IW06-20221215	12/15/22	7.30	189.9	0.19	1.020	32.60	15.00	--	--
	IW06-20230622	06/22/23	6.61	199.6	0.41	1.080	3.32	15.00	--	--
	IW06-20231207	12/07/23	6.31	91.5	0.17	0.650	5.93	15.00	--	--
	IW06-20240626	06/26/24	6.40	-34.8	0.52	0.578	9.45	15.21	--	--
IW07	IW07-20160825	08/25/16	5.15	-11.4	0.61	--	--	--	--	--
IW15	IW15-20160608	06/08/16	5.19	86.6	2.75	--	--	--	--	--
	IW15-20160616	06/16/16	7.59	70.1	1.95	--	--	--	--	--
	IW15-20160623	06/23/16	5.07	16.6	1.05	--	--	--	--	--
	IW15-20160629	06/29/16	5.11	47.3	1.38	--	--	--	--	--
	IW15-20160706	07/06/16	5.09	28.6	1.55	--	--	--	--	--
	IW15-20160825	08/25/16	4.96	35.9	0.58	--	--	--	--	--
	IW15-20161021	10/21/16	5.42	-16.6	0.12	2.065	3.75	15.46	--	--
	IW15-20170602	06/02/17	5.65	-217.5	0.49	1.001	9.42	15.68	--	--
IW38	IW38-20160608	06/08/16	5.53	57.9	2.4	--	--	--	--	--
	IW38-20160616	06/16/16	5.05	91.4	2	--	--	--	--	--
	IW38-20160623	06/23/16	5.1	39	0.73	--	--	--	--	--
	IW38-20160629	06/29/16	5.13	80.6	1.45	--	--	--	--	--
	IW38-20160706	07/06/16	5.06	49.1	1.65	--	--	--	--	--
	IW38-20160825	08/25/16	4.8	73.4	0.29	--	--	--	--	--
	IW38-20161021	10/21/16	5.06	77.7	0.59	2.068	2.19	15.40	--	--
IW50	IW38-20170602	06/02/17	5.72	-234.3	0.46	0.838	2.80	15.69	--	--
	IW50-20151208	12/08/15	7.44	122.1	0.56	0.984	2.68	14.71	--	--
	IW50-20160309	03/09/16	3.46	149.7	0.70	0.726	3.01	14.52	--	115
	IW50-20160715	07/15/16	5.45	40.6	0.44	1.350	4.77	14.80	--	1,100
	IW50-20161021	10/21/16	5.69	43.7	0.83	2.055	11.8	14.79	--	1,600
	IW50-20170126	01/26/17	6.43	-59.5	0.80	1.058	43.2	14.46	--	391
	IW50-20170602	06/02/17	6.34	198.5	0.60	0.688	17.4	14.98	--	85.2 ^U
	IW50-20170923	09/23/17	6.29	-103.0	0.24	1.004	24.1	15.29	--	214 ^U
	IW50-20171216	12/16/17	6.30	-72.4	2.71	1.048	106	14.99	--	224 ^U
	IW50-20180310	03/10/18	6.34	-43.1	0.40	1.038	76.8	14.81	--	55.0 ^U
	IW50-20180630	06/30/18	6.41	-115.4	0.31	1.204	11.35	15.21	--	41.9 ^U
	IW50-20180922	09/22/18	6.65	-37.4	0.66	0.760	5.81	17.40	--	29.6 ^D
	IW50-20181215	12/15/18	6.35	-120.3	1.28	0.681	4.74	15.50	338	12.2
	IW50-20190615	06/15/19	6.26	65.8	0.38	0.670	5.18	15.86	299	7.56
	IW50-20191207	12/07/19	6.24	-30.3	1.02	0.618	5.33	12.31	288	6.72 ^B
	IW50-20200627	06/27/20	6.08	-13.8	8.61*	0.939	4.91	15.70	497	18.2
	IW50-20201212	12/12/20	6.43	91.8	0.24	1.071	14.1	15.24	544	13.7
	IW50-20210625	06/25/21	6.5	-92.6	0.17	1.016	9.79	15.40	449 ^H	16.1
	IW50-20211217	12/17/21	6.29	-61.9	0.05	1.060	--	15.20	468	38.1
	IW50-20220609	06/09/22	6.30	-59.0	0.32	0.749	16.80	14.78	477	13.5
	IW50-20221216	12/16/22	7.32	32.2	0.17	1.250	7.40	14.70	400	5.66
	IW50-20230623	06/23/23	6.49	-80.1	0.18	0.850	19.20	14.80	410	6.25
	IW50-20231207	12/07/23	6.35	-62.1	1.66	0.790	3.11	14.80	382	5.03
	IW50-20240627	06/27/24	6.35	-50.1	0.61	0.785	9.69	15.17	367	3.72
	IW50-20241220	12/20/24	6.38	-53.6	0.19	1.042	14.30	15.16	614 ^U	16.6
IW57	IW57-20160608	06/08/16	4.46	138.7	5.59	--	--	--	--	--
	IW57-20160616	06/16/16	4.51	109.9	2.28	--	--	--	--	--
	IW57-20160623	06/23/16	4.48	56.2	1.88	--	--	--	--	--
	IW57-20160629	06/29/16	4.45	105.5	2.41	--	--	--	--	--
	IW57-20160706	07/06/16	4.56	41.7	2.68	--	--	--	--	--
	IW57-20160825	08/25/16	4.52	38.0	1.01	--	--	--	--	--
	IW57-20161021	10/21/16	5.44	28.9	0.81	2.085	4.16	14.85	--	--
	IW57-20170602	06/02/17	5.76	-242.1	0.33	0.808	22.5	15.25	--	--



Table 5
Groundwater Geochemical and Water Quality Parameters
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Well Identification	Sample Identification	Sample Date	pH ⁽¹⁾	ORP ⁽¹⁾ (mV)	Dissolved Oxygen ⁽¹⁾ (mg/L)	Specific Conductivity ⁽¹⁾ (mS/cm)	Turbidity ⁽¹⁾ (NTU)	Temperature ⁽¹⁾ (°C)	Alkalinity ⁽²⁾ (mg/L CaCO ₃)	Total Organic Carbon ⁽³⁾ (mg/L)
IW61	IW61-20151208	12/08/16	4.27	200.3	3.34	0.655	24.2	14.25	--	--
	IW61-20160309	03/09/16	6.12	-17.9	1.40	0.650	30.1	14.35	--	114
	IW61-20160714	07/14/16	5.31	39.7	0.56	1.624	52.4	15.38	--	2,900
	IW61-20161021	10/21/16	5.63	48.5	0.81	2.283	4.53	15.09	--	3,000
	IW61-20170126	01/26/17	5.89	-47.9	0.41	1.326	1.96	14.27	--	1,300
	IW61-20170602	06/02/17	6.00	219.6	0.49	0.812	7.57	15.42	--	908 ^U
	IW61-20170923	09/23/17	5.28	-9.6	0.79	2.264	7.67	15.55	--	1,490 ^U
	IW61-20171216	12/16/17	6.07	-66.1	0.79	1.158	510	15.28	--	765 ^U
	IW61-20180310	03/10/18	5.80	-1.5	1.28	0.911	185	14.39	--	432 ^D
	IW61-20180630	06/30/18	6.02	-92.1	0.39	1.127	22.0	15.72	--	406 ^D
	IW61-20180922	09/22/18	6.38	-3.8	0.17	0.750	13.5	16.50	--	228 ^U
	IW61-20181215	12/15/18	6.82	-45.1	0.73	1.171	22.0	15.96	494	628 ^U
	IW61-20190615	06/15/19	5.94	-21.1	0.32	0.913	12.60	15.97	429	140 ^U
	IW61-20191207	12/07/19	5.61	-131.0	0.82	0.819	37.2	15.39	444	103 ^{BE}
	IW61-20200627	06/27/20	6.09	-45.1	0.23	0.859	13.2	16.20	419	55.4 ^U
	IW61-20201212	12/12/20	6.22	115.9	0.34	0.960	60.0	15.01	471	60.6 ^U
	IW61-20210625	06/25/21	6.32	-72.2	0.25	0.866	64.0	15.80	423 ^H	66.2 ^U
	IW61-20211217	12/17/21	9.21	-99.4	0.43	0.941	--	14.69	460 ^H	72.6 ^D
	IW61-20220609	06/09/22	6.23	-23.9	0.70	0.882	34.2	14.98	472 ^H	81.8 ^U
	IW61-20221216	12/16/22	7.2	26.7	0.25	1.530	164.0	14.90	474	81.4 ^U
IW64	IW64-20160608	06/08/16	5.22	69.8	3.25	--	--	--	--	--
	IW64-20160616	06/16/16	4.97	94.3	2.27	--	--	--	--	--
	IW64-20160623	06/23/16	5.04	41.5	1.15	--	--	--	--	--
	IW64-20160629	06/29/16	5.09	80.3	2.25	--	--	--	--	--
	IW64-20160706	07/06/16	5.03	36.4	2.05	--	--	--	--	--
	IW64-20160825	08/25/16	5.03	37.0	0.87	--	--	--	--	--
	IW64-20161021	10/21/16	5.70	33.2	0.99	1.980	32.0	15.22	--	--
IW91	IW91-20150506	05/06/15	6.54	171.4	1.57	0.300	0.19	14.35	--	--
	IW91-20150804	08/04/15	6.11	143.7	2.26	0.363	1.91	14.66	--	--
	IW91-20151208	12/08/15	5.88	218.9	5.23	0.342	8.2	14.18	--	--
	IW91-20160309	03/09/16	6.87	209.2	3.99	0.325	2.98	14.15	--	--
	IW91-20160714	07/14/16	6.79	118	5.51	0.299	0.81	14.60	--	--
	IW91-20161020	10/20/16	6.62	143.2	0.25	0.509	6.69	14.68	--	--
	IW91-20170126	01/26/17	6.93	-65.2	0.35	0.461	3.99	14.17	--	--
	IW91-20170601	06/01/17	6.92	192.4	1.90	0.442	3.57	14.54	--	--
	IW91-20170923	09/23/17	6.92	173.0	2.21	0.433	5.16	14.64	--	--
	IW91-20171216	12/16/17	7.09	223.6	2.10	0.337	23.0	14.49	--	--
	IW91-20180310	03/10/18	6.68	196.6	5.81	0.385	20.1	14.55	--	--
	IW91-20180630	06/30/18	6.67	22.4	12.00	0.563	2.52	14.34	--	--
	IW91-20180922	09/22/18	7.00	199.8	5.59	0.462	2.17	15.70	--	--
	IW91-20181215	12/15/18	6.94	12.5	6.43	0.524	0.97	14.99	--	--
	IW91-20190615	06/15/19	6.51	25.1	9.86	0.557	2.27	15.30	--	--
	IW91-20191207	12/07/19	6.63	-131.6	4.45	0.585	1.98	14.62	--	--
	IW91-20200627	06/27/20	6.72	11.7	22.14*	0.457	4.02	15.30	--	--
	IW91-20201212	12/12/20	7.39	177.9	10.84*	0.553	12.70	15.02	--	--
	IW91-20210625	06/25/21	7.35	99.0	17.23	0.433	4.13	14.90	--	--
	IW91-20211217	12/17/21	9.44	6.5	6.05	0.546	--	14.39	--	--
AIW02	AIW02-20160825	08/25/16	4.88	15.3	0.77	--	--	--	--	--
AIW05	AIW05-20160825	08/25/16	4.89	31.5	1.77	--	--	--	--	--
Boren Avenue North										
MW04	MW04-20110527	05/27/11	6.93	11	6.24	0.330	122	15.09	--	--
	MW04-20111012	10/12/11	6.46	201.6	6.17	0.252	25.1	15.0	--	--
	MW04-20130909	09/09/13	6.15	-136.0	5.49	0.305	>200	17.6	--	--
	MW04-20150508	05/08/15	6.76	287.3	0.433	0.433	0.00	17.03	54.0	<0.500
	MW04-20150806	08/06/15	6.39	111.2	6.09	0.350	0.9	18.01	--	--
	MW04-20151209	12/09/15	6.49	221.3	7.48	0.344	1.1	16.74	--	--
	MW04-20160308	03/08/16	6.60	136.4	3.56	0.292	1.46	16.11	--	--
	MW04-20160713	07/13/16	6.48	-1.3	0.99	0.392	1.06	16.78	--	--
	MW04-20161019	10/19/16	7.18	190.7	3.15	0.300	4.06	15.98	--	--
	MW04-20170124	01/24/17	6.91	-1.1	2.95	0.237	3.22	14.74	--	--
	MW04-20170531	05/31/17	6.93	219.6	7.11	0.453	6.06	15.70	--	--
	MW04-20170921	09/21/17	6.71	120.3	8.65	0.460	6.82	15.49	--	--
	MW04-20171214	12/14/17	7.13	237.0	8.36	0.465	3.01	13.12	--	--
	MW04-20180309	03/09/18	6.60	159.4	1.80	0.290	3.01	14.96	--	--
	MW04-20180629	06/29/18	6.61	132.9	4.55	0.351	1.50	15.78	--	--
	MW04-20180920	09/20/18	6.55	189.1	7.07	0.387	1.27	15.80	--	--
	MW04-20181214	12/14/18	6.47	38.2	4.83	0.388	0.73	14.58	41.0	--
	MW04-20190614	06/14/19	6.58	100.0	4.15	0.386	3.98	16.50	66.3	--
	MW04-20191205	12/05/19	6.68	-64.1	7.97	0.463	2.67	14.07	45.8	--
	MW04-20200626	06/26/20	6.37	185.2	7.78	0.391	7.72	16.70	115	--
	MW04-20201211	12/11/20	9.57	-11.2	6.63	0.409	4.75	12.10	103	--
	MW04-20210623	06/23/21	6.35	-16.3	2.23	0.480	6.14	15.96	137	--
	MW04-20211215	12/15/21	6.95	126.9	1.07	0.495	2.55	14.90	74.0	0.965
	MW04-20220607	06/07/22	6.54	326.5	5.75	0.700	7.06	15.00	61.6	0.633
	MW04-20221214	12/14/22	6.48	183.3	8.16	0.582	9.11	14.10	211	0.761
	MW04-20230622	06/22/23	6.80	263.5	7.79	0.950	2.28	14.80	57.8	0.919
	MW04-20231208	12/08/23	6.56	217.1	7.52	0.445	0.93	14.70	66.6	<0.700
	MW04-20240626	06/26/24	6.52	201.7	7.62	0.455	7.89	15.62	60.5	0.740
	MW04-20241218	12/18/24	6.66	214.4	6.36	0.431	5.08	14.36	70.0 ^D	<0.700



Table 5
Groundwater Geochemical and Water Quality Parameters
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Well Identification	Sample Identification	Sample Date	pH ⁽¹⁾	ORP ⁽¹⁾ (mV)	Dissolved Oxygen ⁽¹⁾ (mg/L)	Specific Conductivity ⁽¹⁾ (mS/cm)	Turbidity ⁽¹⁾ (NTU)	Temperature ⁽¹⁾ (°C)	Alkalinity ⁽²⁾ (mg/L CaCO ₃)	Total Organic Carbon ⁽³⁾ (mg/L)
MW32	MW32-20191009	10/09/19	6.16	-39.9	2.22	0.208	9.71	13.35	--	--
	MW32-20191205	12/05/19	5.92	-9.0	2.26	0.167	23.6	10.44	--	--
	MW32-20200626	06/26/20	5.98	118.9	3.54	0.251	6.92	15.20	--	--
	MW32-20201212	12/12/20	6.48	169.0	5.04	0.334	36.6	14.48	--	--
	MW32-20210624	06/24/21	6.37	156.4	2.79	0.271	14.9	15.80	--	--
	MW32-20211215	12/15/21	6.36	-36.9	0.86	0.280	11.0	14.16	--	--
	MW32-20220607	06/07/22	6.25	292.8	0.54	0.289	57.4	14.50	--	--
	MW32-20221214	12/14/22	7.1	279.9	2.60	0.479	146.0	14.50	--	--
MW33	MW32-20230621	06/21/23	6.47	137.0	4.66	0.329	61.3	15.40	--	--
	MW32-20231205	12/05/23	6.32	190.5	3.18	0.342	336	12.97	--	--
	MW33-20191009	10/09/19	8.03	97.2	4.32	0.257	7.3	15.85	--	--
	MW33-20191205	12/05/19	6.38	-25.6	5.79	0.170	3.43	11.28	--	--
	--	06/26/20	WELL DRY, UNABLE TO SAMPLE							
	--	12/10/20	WELL DRY, UNABLE TO SAMPLE							
	MW33-20210624	06/24/21	6.91	181.6	7.75	0.387	22.8	16.7	--	--
	MW33-20211216	12/16/21	7.26	213.1	1.38	0.371	35.9	14.7	--	--
South-Adjoining Property										
MW29	MW29-20191008	10/08/19	6.55	-146.2	1.67	0.777	32	14.09	--	--
	MW29-20191204	12/04/19	6.28	155.3	0.56	0.937	9.23	15.10	--	--
	MW29-20200625	06/25/20	6.59	33.2	0.70	0.960	9.70	16.70	--	--
	MW29-20201210	12/10/20	6.69	81.3	1.58	0.872	5.87	15.03	--	--
	MW29-20210622	06/22/21	6.59	45.5	4.96	0.870	3.10	17.99	--	--
	MW29-20211215	12/15/21	7.15	110.8	0.36	0.860	7.79	14.60	--	--
MW29R	MW29-20220607	06/07/22	6.7	55.7	1.03	0.700	8.5	15.31	--	--
	WELL DECOMISSIONED 2022									
	MW29R-20230824	08/24/23	6.46	-61.9	0.18	0.85	19.9	17.9	--	--
	MW29R-20240105	01/05/24	7.47	137.7	2.97	0.574	9.13	14.4	--	--
MW30	MW29R-20240625	06/25/24	6.81	202.5	2.27	0.664	3.62	16.8	--	--
	MW29R-20241217	12/17/24	6.84	46.1	3.11	0.534	6.48	14.17	--	--
	MW30-20191008	10/08/19	2.98	133.8	2.30	0.495	158	15.29	--	--
	MW30-20191204	12/04/19	5.88	173.1	0.4	0.440	13.9	14.30	--	--
MW35	MW30-20200625	06/25/20	6.12	61.9	5.92	0.488	22.7	20.10	--	--
	MW30-20201210	12/10/20	6.17	125	2.18	0.475	38.0	14.36	--	--
	MW30-20210623	06/23/21	6.30	136.3	1.29	0.419	113.0	17.90	--	--
	MW30-20211215	12/15/21	6.63	72.8	0.70	0.471	26.4	14.90	--	--
ONNI-MW-4	MW30-20220606	06/06/22	6.19	69.8	1.29	0.338	130	15.20	--	--
	WELL DECOMISSIONED 2022									
	MW35-20230824	08/24/23	5.82	105.9	1.30	0.480	18.9	17.6	--	--
	MW35-20240105	01/05/24	6.91	174.6	2.34	0.467	8.82	14.3	--	--
ONNI-MW-5	MW35-20240625	06/25/24	6.39	281.7	6.93	0.456	204	17.3	--	--
	MW35-20241217	12/17/24	6.60	123.6	5.35	0.432	>2000	13.23	--	--
	ONNI-MW-4-20191208	12/08/19	6.46	-157.2	1.40	0.469	49.0	13.69	--	--
	ONNI-MW-4-20200625	06/25/20	6.97	-12.1	4.20	0.507	91.0	16.70	--	--
ONNI-MW-9	ONNI-MW-4-20201210	12/10/20	7.06	182	1.99	0.472	245.0	13.15	--	--
	ONNI-MW-4-20210622	06/22/21	7.18	180.9	1.84	0.530	3713.0	23.30	--	--
	ONNI-MW-4-20211215	12/15/21	7.54	118.4	0.60	0.540	51.7	14.40	--	--
	WELL DECOMISSIONED 2022									
ONNI-MW-5	ONNI-MW-5-20191208	12/08/19	6.92	-176.5	1.7	0.423	45.0	12.75	--	--
	ONNI-MW-5-20200206	02/06/20	7.11	-38.1	1.17	0.368	20.5	14.79	--	--
	ONNI-MW-5-20200625	06/25/20	7.24	33.1	2.12	0.436	39.3	15.70	--	--
	ONNI-MW-5-20201209	12/09/20	7.21	131.6	0.38	0.405	15.0	14.81	--	--
	ONNI-MW-5-20210623	06/23/21	7.43	27.9	1.74	0.412	overrange	17.53	--	--
	ONNI-MW-5-20211214	12/14/21	7.41	-155.7	0.25	0.343	125	14.10	--	--
ONNI-MW-9	ONNI-MW-9-20211214	12/14/21	6.37	20.5	0.4	0.379	115	13.2	--	--
	ONNI-MW-9-20220606	06/06/22	6.27	329.1	15.41	0.550	55.1	15.3	--	--
WELL DECOMISSIONED 2022										

NOTES:

Analyses performed by Friedman & Bruya, Inc., Fremont Analytical Inc., or Aquatic Research Inc., of Seattle, Washington; or Amtest Inc. of Kirkland, Washington.

⁽¹⁾Parameter is measured in the field using water quality meter with flow-through cell. The reported value is the last reading prior to sampling groundwater.

⁽²⁾Analyzed by SM 2320B.

⁽³⁾Analyzed by SM 5310C.

⁽⁴⁾Elevated turbidity measurement as groundwater was purged from the base of the well.

Laboratory Notes:

^DDilution was required.

^BAnalyte detected in the associated Method Blank.

*Anomalous reading, attributed to meter error.

-- = not measured/ not applicable

< = not detected at a concentration exceeding the laboratory reporting limit

°C = degrees Celius

CaCO₃ = calcium carbonate

mg/L = milligrams per liter

mS/cm = milliSiemen per centimeter

mV = millivolts

NTU = nephelometric turbidity unit

ORP = oxidation-reduction potential

SM = Standard Method

Table 6
Groundwater Analytical Results for Volatile Fatty Acids
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Well Identification	Sample Identification	Sample Date	Lactate ⁽¹⁾ (mg/L)	Acetate ⁽¹⁾ (mg/L)	Propionate ⁽¹⁾ (mg/L)	Formate ⁽¹⁾ (mg/L)	Butyrate ⁽¹⁾ (mg/L)	Pyruvate ⁽¹⁾ (mg/L)	Lactic ⁽²⁾ (mg/L)	Acetic ⁽³⁾ (mg/L)	Total Organic Carbon ⁽⁴⁾ (mg/L)
MW07	MW07-20160308	03/08/16	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	0.862
	MW07-20160713	07/16/16	--	--	--	--	--	--	<20	<20 ^{X,D}	0.83
	MW07-20161019	10/19/16	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	1.7
	MW07-20170124	01/24/17	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	4.25
	MW07-20170531	05/31/17	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	4.58
	MW07-20180308	03/08/18	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	0.877
	MW07-20180629	06/29/18	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	1.80
MW16	MW07-20180920	09/20/18	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	0.963
	MW16-20161019	10/19/16	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	9.4
	MW16-20170125	01/25/17	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	13.5
	MW16-20170531	05/31/17	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	46.0 ^D
	MW16-20170922	09/22/17	<0.39	1.1	<0.31	2	<0.41	<0.69	--	--	92.1 ^D
	MW16-20171229	12/29/17	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	93.5 ^D
	MW16-20180309	03/09/18	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	1.87
MW18	WELL DAMAGED 2018										
	MW18-20150506	05/06/15	--	--	--	--	--	--	--	--	<0.500
	MW18-20160308	03/08/16	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	1.01
	MW18-20160714	07/14/16	--	--	--	--	--	--	<100	64 ^{X,D}	2,300
	MW18-20161020	10/20/16	<7.8	959	494	<4.4	131	<14	--	--	1,900
	MW18-20170126	01/26/17	<7.8	830	200	<4.4	121	<14	--	--	823
	MW18-20170601	06/01/17	<7.8	512	300	<4.4	115	<14	--	--	1,090 ^D
	MW18-20170923	09/23/17	<0.39	25	232	<0.22	<0.41	2	--	--	253 ^D
	MW18-20171216	12/16/17	<0.39	<0.54	81	0.79	<0.41	<0.69	--	--	173 ^D
	MW18-20180310	03/10/18	<0.39	193	79	0.55	1.6	1.7	--	--	108 ^D
	MW18-20180630	06/30/18	<0.39	28	53	<0.22	<0.41	<0.69	--	--	47.2 ^D
	MW18-20180922	09/22/18	<0.39	26	5.4	<0.22	<0.41	<0.69	--	--	37.8 ^D
	MW18-20190615	06/15/19	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	11
	MW18-20191207	12/07/19	<0.39	10	<0.31	<0.22	<0.41	<0.69	--	--	--
	MW18-20200627	06/27/20	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	5.95
	MW18-20201212	12/12/20	<0.69	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	4.30
	MW18-20210625	06/25/21	<0.39	1.8	<0.31	<0.22	<0.41	<0.69	--	--	6.85
	MW18-20211217	12/17/21	<0.39	<0.54	<0.31	<0.22	<0.47	<0.69	--	--	11.9
	MW18-20220609	06/09/22	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	7.97
	MW18-20221215	12/15/22	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	6.18
	MW18-20230622	06/22/23	1.6 ^J	<1.4	<0.10	0.42	<0.06	<0.15	--	--	5.69
	MW18-20231207	12/07/23	<0.50	0.42 ^J	<0.26	<0.25	<0.06	<0.75	--	--	5.31
	MW18-20240627	06/27/24	<0.50	<0.30	<0.26	<0.25	<0.06	<0.75	--	--	4.16

Table 6
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Seattle, Washington

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MW21	MW21-20160309	03/09/16	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	2.29
	MW21-20160713	07/13/16	--	--	--	--	--	--	<100	<100 ^{xD}	1,800
	MW21-20161020	10/20/16	<7.8	509	1,032	<4.4	43	<14	--	--	1,800
	MW21-20170126	01/26/17	<0.39	201	311	1.1	31	0.91	--	--	884
	MW21-20170601	06/01/17	<7.8	682	393	<4.4	88	<14	--	--	755 ^D
	MW21-20170924	09/24/17	<7.8	880	507	<4.4	148	<14	--	--	871 ^D
	MW21-20171216	12/16/17	<7.8	630	151	45	148	13	--	--	722 ^D
	MW21-20180310	03/10/18	<0.39	490	124	1.0	73	16	--	--	466 ^D
	MW21-20180630	06/30/18	<7.8	811	278	<4.4	151	28	--	--	718 ^D
	MW21-20180922	09/22/18	<0.39	460	173	<0.22	114	<0.69	--	--	549 ^D
	MW21-20190615	06/15/19	<0.39	140	66	<0.22	12	4	--	--	163 ^D
	MW21-20191207	12/07/19	<0.39	116	7.2	<0.22	13	12	--	--	--
	MW21-20200627	06/27/20	<0.39	249	144	20	79	19	--	--	--
	MW21-20201212	12/12/20	<0.69	157	89	0.72	36	9.1	--	--	191 ^D
	MW21-20210625	6/25/21	<0.39	189	85	<0.22	50	15	--	--	349 ^D
	MW21-20211217	12/17/21	<0.39	174	62	1.5	31	16	--	--	330
MW22	MW21-20220609	06/09/22	<0.39	<0.54	<0.31	0.64	<0.41	<0.69	--	--	123 ^D
	MW21-20221215	12/15/22	<0.39	161	6.1	<0.22	14	4.1	--	--	104 ^D
	MW21-20230623	06/23/23	<0.62	136	7.4	<1.3	8.7	0.93 ^j	--	--	25.5
	MW21-20231207	12/07/23	<0.50	213	<0.26	9.0	9.3	<0.75	--	--	109
	MW21-20240627	06/27/24	<0.50	117	5.8	<0.25	6.7	<0.75	--	--	21.8
	MW22-20190615	06/15/19	<0.39	270	150	<0.22	39	13	--	--	286 ^D
	MW22-20191207	12/07/19	<0.39	418	134	<0.22	42	13	--	--	--
	MW22-20200627	06/27/20	<0.39	283	56	<0.22	21	7.3	--	--	206 ^D
	MW22-20201212	12/12/20	<0.69	142	22	--	8.8	1.2	--	--	95.5 ^D
	MW22-20210625	06/25/21	<0.39	254	14	<0.22	36	2.4	--	--	349 ^D
	MW22-20211217	12/17/21	<0.39	169	16	<0.22	14	1.9	--	--	133 ^D
	MW22-20220609	06/09/22	<0.39	168	17	0.6	12	1.3	--	--	42.0
	MW22-20221216	12/16/22	<0.39	191	1.5	<0.22	20	2.5	--	--	105 ^D
	MW22-20230623	06/23/23	<0.62	173	5.0	3.6	12	1.7 ^j	--	--	82.7
	MW22-20231207	12/07/23	<0.50	218	2.8	<0.25	7.2	<0.75	--	--	76.8
	MW22-20240627	06/27/24	<0.50	153	9.9	1.2 ^j	8.9	<0.75	--	--	81.2

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MW23	MW23-20150507	05/07/15	--	--	--	--	--	--	--	--	<0.500
	MW23-20160308	03/08/16	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	3.14
	MW23-20160714	07/14/16	--	--	--	--	--	--	<100	<100 ^x	2,300
	MW23-20161020	10/20/16	<7.8	986	1,229	<4.4	144	<14	--	--	2,300
	MW23-20170126	01/26/17	<7.8	613	256	<4.4	57	<14	--	--	520
	MW23-20170601	06/01/17	<7.8	1,300	656	<4.4	280	<14	--	--	1,620 ^D
	MW23-20170923	09/23/17	<7.8	705	388	<4.4	295	59	--	--	1,160 ^D
	MW23-20171216	12/16/17	<0.39	131	176	8.0	106	31	--	--	865 ^D
	MW23-20180310	03/10/18	<0.39	25	151	2.8	<0.41	7.2	--	--	127 ^D
	MW23-20180630	06/30/18	<0.39	52	213	<0.22	<0.41	8.5	--	--	198 ^D
	MW23-20180922	09/22/18	<0.39	26	230	<0.22	<0.41	<0.69	--	--	159 ^D
	MW23-20190615	06/15/19	<0.39	19	86	<0.22	0.42	1.8	--	--	60.7 ^D
	MW23-20191207	12/07/19	<0.39	24	<0.31	2.7	<0.41	<0.69	--	--	--
	MW23-20200627	06/27/20	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	6.41
	MW23-20201212	12/12/20	<0.69	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	7.90
MW24	MW23-20210625	06/25/21	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	6.65
	MW23-20211217	12/17/21	<0.39	<0.54	<0.31	<0.22	<0.47	<0.69	--	--	6.10
	MW23-20240627	06/27/24	<0.50	<0.30	<0.26	1.0 ^j	<0.06	<0.75	--	--	2.98
	MW24-20150506	05/06/15	--	--	--	--	--	--	--	--	1.12
	MW24-20160309	03/09/16	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	2.19
	MW24-20160715	07/15/16	--	--	--	--	--	--	<100	56.7 ^{x,D}	1,000
	MW24-20161020	10/20/16	<7.8	1,431	143	<4.4	20	<14	--	--	640
	MW24-20170126	01/26/17	<7.8	901	133	<4.4	34	<14	--	--	375
	MW24-20170601	06/01/17	<7.8	1,036	204	78	251	<14	--	--	1,470 ^D
	MW24-20170924	09/24/17	<0.39	28	140	4.2	38	7.9	--	--	390 ^D
	MW24-20171216	12/16/17	<0.39	12	70	1.2	2.0	0.80	--	--	233 ^D
	MW24-20180310	03/10/18	<0.39	8.0	10	<0.22	<0.41	<0.69	--	--	22.1 ^D
	MW24-20180630	06/30/18	<7.8	681	164	<4.4	123	<13.8	--	--	770 ^D
	MW24-20180922	09/22/18	<0.39	26	10	<0.22	1	<0.69	--	--	45.5 ^D
	MW24-20190615	06/15/19	<0.39	39	5.6	<0.22	0.46	<0.69	--	--	20.5
	MW24-20191207	12/07/19	5.7	29	<0.31	3.0	<0.41	<0.69	--	--	--
	MW24-20200627	06/27/20	<0.39	<0.54	0.60	<0.22	<0.41	<0.69	--	--	8.44
	MW24-20201212	12/12/20	<0.69	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	6.95
	MW24-20210625	06/25/21	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	7.52
	MW24-20211217	12/17/21	<0.39	<0.54	<0.31	1.7	<0.47	<0.69	--	--	<0.500
	MW24-20220609	06/09/22	<0.39	1.0	<0.31	0.92	<0.41	<0.69	--	--	5.79
	MW24-20221216	12/16/22	<0.39	9.4	<0.31	<0.22	<0.41	<0.69	--	--	8.08 ^D
	MW24-20230623	06/23/23	<0.62	<1.4	<0.10	<1.3	<0.06	<0.15	--	--	4.60
	MW24-20231207	12/07/23	<0.50	0.38 ^f	<0.26	<0.25	<0.06	<0.75	--	--	4.24
	MW24-20240627	06/27/24	<0.50	1.5 ^j	<0.26	0.99 ^j	<0.06	<0.75	--	--	3.13

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MW25	MW25-20150507	05/07/15	--	--	--	--	--	--	--	--	<0.500
	MW25-20190615	06/15/19	<0.39	45	1.3	<0.22	1.3	<0.69	--	--	25.80
	MW25-20191207	12/07/19	<0.39	21	<0.31	2.9	<0.41	<0.69	--	--	--
	MW25-20200627	06/27/20	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	5.21
	MW25-20201212	12/12/20	<0.69	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	9.57
	MW25-20210625	06/25/21	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	7.50
	MW25-20211217	12/17/21	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	4.18
	MW25-20220609	06/09/22	<0.39	<0.54	<0.31	0.80	<0.41	<0.69	--	--	2.29
	MW25-20221216	12/16/22	<0.39	6.5	<0.31	<0.22	<0.41	<0.69	--	--	1.16
IW04	MW25-20230623	06/23/23	1.7 ^j	<1.4	<0.10	<1.3	<0.06	<0.15	--	--	1.56
	MW25-20231207	12/07/23	<0.50	0.38 ^j	<0.26	<0.25	<0.06	<0.75	--	--	1.59
	MW25-20240627	06/27/24	<0.50	<0.30	<0.26	0.98 ^j	<0.06	<0.75	--	--	1.42
	IW04-20150508	05/08/15	--	--	--	--	--	--	--	--	<0.500
	IW04-20190615	06/15/19	<0.39	31	6.1	<0.22	3.2	0.42	--	--	148 ^D
	IW04-20191207	12/07/19	<0.39	25	<0.31	3.3	<0.41	<0.69	--	--	--
	IW04-20200627	06/27/20	<0.39	8.2	1.5	<0.22	1.5	<0.69	--	--	88.7 ^D
	IW04-20201212	12/12/20	<0.69	6.2	3.1	<0.22	2.1	<0.69	--	--	90.3 ^D
	IW04-20210625	06/25/21	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	93.1 ^D
IW50	IW04-20211217	12/17/21	<0.39	2.4	1.2	<0.22	<0.47	<0.69	--	--	101 ^D
	IW04-20220609	06/09/22	<0.39	178	45	5.9	29	16	--	--	75.6 ^D
	IW04-20221215	12/15/22	<0.39	7.2	<0.31	<0.22	<0.41	<0.69	--	--	30.5 ^D
	IW04-20230622	06/22/23	<0.62	<1.4	<0.10	<1.3	<0.06	<0.15	--	--	24.3
	IW04-20231207	12/07/23	<0.50	0.60 ^j	<0.26	<0.25	<0.06	<0.75	--	--	21.5
	IW04-20240626	06/26/24	<0.50	<0.30	<0.26	<0.25	<0.06	<0.75	--	--	15.3
	IW50-20160309	03/09/16	<0.39	358	82	1.1	22	<0.69	--	--	115
	IW50-20160715	07/15/16	--	--	--	--	--	--	<100	<100 ^{xD}	1,100
	IW50-20161021	10/21/16	<7.8	1,492	683	8.2	476	<14	--	--	1,600
	IW50-20170126	01/26/17	<0.39	73	102	4.0	61	9.4	--	--	391
	IW50-20170602	06/02/17	<0.39	39	5.2	<0.22	1.3	<0.69	--	--	85.2 ^D
	IW50-20170924	09/24/17	<0.39	87	108	<0.22	4.2	2.5	--	--	214 ^D
	IW50-20171216	12/16/17	--	43	8.0	<0.22	<0.41	<0.69	--	--	224 ^D
	IW50-20180310	03/10/18	<0.39	41	3.1	<0.22	0.79	<0.69	--	--	55.0 ^D
	IW50-20180630	06/30/18	<0.39	4.9	<0.31	<0.22	<0.41	<0.69	--	--	41.9 ^D
	IW50-20180922	09/22/18	<0.39	2.3	<0.31	<0.22	<0.41	<0.69	--	--	29.6 ^D
	IW50-20190615	06/15/19	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	7.56
	IW50-20191207	12/07/19	<0.39	18	<0.31	3.3	<0.41	<0.69	--	--	--
	IW50-20200627	06/27/20	<0.39	2.8	<0.31	<0.22	<0.41	<0.69	--	--	18.2
	IW50-20201212	12/12/20	<0.69	1.6	<0.31	<0.22	<0.41	<0.69	--	--	13.7
	IW50-20210625	06/25/21	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	16.1
	IW50-20211217	12/17/21	<0.39	9.2	1.3	<0.22	<0.47	<0.69	--	--	38.1
	IW50-20220609	06/09/22	--	--	--	--	--	--	--	--	13.5
	IW50-20221216	12/16/22	<0.39	7.4	<0.31	<0.22	<0.41	<0.69	--	--	5.66
	IW50-20230623	06/23/23	<0.62	<1.4	<0.10	<1.3	<0.06	<0.15	--	--	6.25
	IW50-20231207	12/07/23	<0.50	0.88 ^j	<0.26	<0.25	<0.06	<0.75	--	--	5.03
	IW50-20240627	06/27/24	<0.50	<0.30	<0.26	<0.25	<0.06	<0.75	--	--	3.72

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300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Well Identification	Sample Identification	Sample Date	Lactate ⁽¹⁾ (mg/L)	Acetate ⁽¹⁾ (mg/L)	Propionate ⁽¹⁾ (mg/L)	Formate ⁽¹⁾ (mg/L)	Butyrate ⁽¹⁾ (mg/L)	Pyruvate ⁽¹⁾ (mg/L)	Lactic ⁽²⁾ (mg/L)	Acetic ⁽³⁾ (mg/L)	Total Organic Carbon ⁽⁴⁾ (mg/L)
IW61	IW61-20160309	03/09/16	<0.39	368	51	0.69	28	<0.69	--	--	114
	IW61-20160713	07/13/16	--	--	--	--	--	--	<100	217 ^{X,D}	2,900
	IW61-20161021	10/21/16	<7.8	1,543	538	122	837	<14	--	--	3,000
	IW61-20170126	01/26/17	<7.8	612	253	38	363	<14	--	--	1,300
	IW61-20170602	06/02/17	<0.39	171	118	<0.22	189	<0.69	--	--	908 ^D
	IW6120170923	09/23/17	<7.8	2,589	231	37	705	19	--	--	1,490 ^D
	IW61-20171216	12/16/17	<0.39	235	151	45	148	13	--	--	765 ^D
	IW61-20180310	03/10/18	<0.39	184	176	31	92	16	--	--	432 ^D
	IW61-20180630	06/30/18	<0.39	111	200	<0.22	44	14	--	--	406 ^D
	IW61-20180922	09/22/18	<0.39	71	170	14	21	<0.69	--	--	228 ^D
	IW61-20190615	06/15/19	<0.39	88	72	<0.22	4.4	0.58	--	--	140 ^D
	IW61-20191207	12/07/19	<0.39	98	7.2	1.8	5	<0.69	--	--	--
	IW61-20200627	06/27/20	<0.39	13	0.62	<0.22	<0.41	<0.69	--	--	55.4 ^D
	IW61-20201212	12/12/20	<0.69	5.1	<0.31	0.60	<0.41	<0.69	--	--	60.6 ^D
	IW61-20210625	06/25/21	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	66.2 ^D
	IW61-20211217	12/17/21	<0.39	4.5	<0.31	<0.22	<0.47	<0.69	--	--	72.6 ^D
	IW61-20211217	06/09/22	<0.39	1.4	<0.31	<0.22	2.5	<0.69	--	--	81.8 ^D
	IW61-20221216	12/16/22	<0.39	12	<0.31	<0.22	<0.41	<0.69	--	--	81.4 ^D
	IW61-20230623	06/23/23	2.0	4.4	<0.10	1.9 ^J	<0.06	<0.15	--	--	80.4
	IW61-20231207	12/07/23	<0.50	<0.30	<0.26	<0.25	<0.06	<0.75	--	--	81.3
	IW61-20240627	06/27/24	<0.50	3.9	<0.26	<0.25	<0.06	<0.75	--	--	66.0

NOTES:

⁽¹⁾Analyzed by Ion Chromatography.

⁽²⁾Analyzed by EPA Method 300.0.

⁽³⁾Analyzed by EPA Method 300.0 modified.

⁽⁴⁾Analyzed by SM 5310C or EPA Method 300.0 modified.

Laboratory Notes:

^DThe reported value is from a dilution.

^XAcetic and propionic acids co-eluted. Results are quantitated at acetic acid.

^JThe associated value is an estimated result between the QL and the RL.

-- = not measured/ not applicable

< = not detected at a concentration exceeding the laboratory reporting limit

EPA = US Environmental Protection Agency

mg/L = milligrams per liter

SM = Standard Method

QL = quantitation limit

RL = reporting Limit



Table 7
Summary of Mann-Kendall Non-Parametric Statistical Trend Results
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington

Well Number	PCE	TCE	cis-1,2-DCE	VC	Last Sample Date	PCE	TCE	cis-1,2-DCE	VC	Comments
Statistical Concentration Trend - 2015 through 2024					µg/L					
On-Property										
IW50	NA	NA	NA	Increasing	12/20/24	<1	<0.5	1.2	0.86	Center of the Property near original source area
IW61	NA	NA	Decreasing	Increasing	12/20/24	<1	<0.5	43	3.1	South-center of the Property north of the Thomas ROW and downgradient from the Boren ROW
MW18	NA	NA	NA	Increasing	12/19/24	<1	<0.5	3.6	1.5	Center of the Property near original source area and downgradient of the Boren ROW
MW19	NA	NA	NA	Increasing	12/19/24	<1	<0.5	<1	2.0	Center of the Property near original source area and downgradient of the Boren ROW
MW21	NA	NA	NA	Increasing	12/20/24	<1	<0.5	11	1.8	Center of the Property near original source area and downgradient of the Boren ROW
MW22	NA	NA	Increasing	Increasing	12/20/24	<1	<0.5	35	2.4	Center of the Property near original source area and downgradient of the Boren ROW
MW24	NA	NA	NA	Increasing	12/20/24	<1	0.72	1.6	1.8	Center of the Property near original source area and downgradient of the Boren ROW
MW25	NA	Undetermined ⁽¹⁾	NA	Increasing	12/19/24	4.5	8.1	5.2	1.5	Center of the Property near original source area and downgradient of the Boren ROW
Boren Avenue										
MW04	NA	Undetermined	NA	NA	12/18/24	<1	9.8	<1	<0.2	Boren ROW upgradient of the Property and downgradient of yet unknown upgradient source area for TCE
MW07	NA	Decreasing	NA	NA	12/18/24	2.3	5.7	<1	<0.2	Boren ROW upgradient of the Property and downgradient of yet unknown upgradient source area for TCE
MW27	NA	Decreasing	NA	NA	12/17/24	<1	12	1.4	<0.2	Boren ROW upgradient of the Property and downgradient of yet unknown upgradient source area for TCE
Former Seattle Times Site										
MW29-29R	Undetermined	NA	NA	NA	12/17/24	8	4	5	<0.2	Northern side of former Seattle Times Site
Harrison Street										
MW26	NA	Stable	NA	NA	12/18/24	<1	15	<1	<0.2	Harrison ROW upgradient of the Property and downgradient of yet unknown upgradient source area for TCE
MTCA Groundwater Cleanup Level						5 ⁽²⁾	5 ⁽²⁾	16 ⁽³⁾	0.2 ⁽²⁾	
Commercial Worker Groundwater Remediation Level at the Property ⁽⁴⁾						120	12	1,600	1.6	
Roadway Excavation Remediation Level in Right-of-Ways ⁽⁴⁾						760	40	10,000	9.9	

NOTES:

ug/L = micrograms per liter

cis-1,2-DCE = cis-1,2-dichloroethylene

CLARC = Cleanup Levels and Risk Calculation

MTCA = Washington State Department of Ecology Model Toxics Control Act

NA = The concentration of analyte not detected above the laboratory reporting limit or the concentration was less than the groundwater cleanup level four sampling events as of 2024

PCE = tetrachlorethylene

ROW = right-of-way

TCE = trichloroethylene

trans-1,2-DCE = trans-1,2-dichloroethylene

VC = vinyl chloride

⁽¹⁾ Undetermined = Insufficient evidence to identify a significant trend at the specified level of significance

⁽²⁾ MTCA Method A Cleanup Levels, Table 720-1 of WAC 173-340-900.

⁽³⁾ MTCA Cleanup Regulation, Chapter 173-340 of WAC, CLARC, Groundwater, Method B, Non-Carcinogen, Standard Formula Value, CLARC Website <<https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx>>.

⁽⁴⁾ Table values in CLARC, Ecology’s Guidance for Evaluating Vapor Intrusion in Washington State: Investigation and Remedial Action dated 2009, revised 2022, and Ecology’s South Lake Union Group Memorandum, dated December 14, 2022.

ATTACHMENT A
LABORATORY ANALYTICAL REPORTS

Second Quarter 2024

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 Ave South
Seattle, WA 98108-2419
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office@friedmanandbruya.com
www.friedmanandbruya.com

July 9, 2024

Linnea Coleman, Project Manager
SoundEarth Strategies
1011 SW Klickitat Way, Suite 104
Seattle, WA 98134

Dear Ms Coleman:

Included are the results from the testing of material submitted on June 25, 2024 from the SOU_0731-004-08_20240625, F&BI 406357 project. There are 16 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Tom Cammarata
SOU0709R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 25, 2024 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0731-004-08_20240625, F&BI 406357 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
406357 -01	MW26-20240625
406357 -02	MW28-20240624
406357 -03	MW29R-20240625
406357 -04	MW35-20240625

Samples MW26-20240625 and MW28-20240624 were sent to Alliance Technical Group for RSK dissolved gases, sulfate, nitrate, alkalinity, and ferrous iron analyses. In addition, sample MW26-20240625 was sent for RSK dissolved gases analysis. The report is enclosed.

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/09/24

Date Received: 06/25/24

Project: SOU_0731-004-08_20240625, F&BI 406357

Date Extracted: 06/26/24

Date Analyzed: 06/27/24

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

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	Surrogate <u>(% Recovery)</u> (Limit 50-150)
MW28-20240624 406357-02	<100	90
Method Blank 04-1365 MB	<100	101

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/09/24

Date Received: 06/25/24

Project: SOU_0731-004-08_20240625, F&BI 406357

Date Extracted: 06/27/24

Date Analyzed: 06/27/24

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

Results Reported as ug/L (ppb)

<u>Sample ID</u>	<u>Diesel Range</u>	<u>Motor Oil Range</u>	<u>Surrogate</u>
Laboratory ID	(C ₁₀ -C ₂₅)	(C ₂₅ -C ₃₆)	(% Recovery)
			(Limit 50-150)
MW28-20240624	93 x	<300	76
406357-02 1/1.2			
Method Blank	<50	<250	76
04-1495 MB2			

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW26-20240625	Client:	SoundEarth Strategies
Date Received:	06/25/24	Project:	SOU_0731-004-08_20240625
Date Extracted:	06/28/24	Lab ID:	406357-01
Date Analyzed:	06/28/24	Data File:	062834.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	112	78	126
Toluene-d8	97	84	115
4-Bromofluorobenzene	100	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	11
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW28-20240624	Client:	SoundEarth Strategies
Date Received:	06/25/24	Project:	SOU_0731-004-08_20240625
Date Extracted:	06/28/24	Lab ID:	406357-02
Date Analyzed:	06/28/24	Data File:	062835.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	94	78	126
Toluene-d8	95	84	115
4-Bromofluorobenzene	99	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	18
Trichloroethene	1.1
Tetrachloroethene	1.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW29R-20240625	Client:	SoundEarth Strategies
Date Received:	06/25/24	Project:	SOU_0731-004-08_20240625
Date Extracted:	06/28/24	Lab ID:	406357-03
Date Analyzed:	06/28/24	Data File:	062833.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	78	126
Toluene-d8	101	84	115
4-Bromofluorobenzene	104	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	4.6
Trichloroethene	5.7
Tetrachloroethene	11

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW35-20240625	Client:	SoundEarth Strategies
Date Received:	06/25/24	Project:	SOU_0731-004-08_20240625
Date Extracted:	06/28/24	Lab ID:	406357-04
Date Analyzed:	06/28/24	Data File:	062832.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	78	126
Toluene-d8	98	84	115
4-Bromofluorobenzene	100	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	<0.5
Tetrachloroethene	1.7

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0731-004-08_20240625
Date Extracted:	06/28/24	Lab ID:	04-1464 mb
Date Analyzed:	06/28/24	Data File:	062809.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	78	126
Toluene-d8	98	84	115
4-Bromofluorobenzene	98	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	<0.5
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW26-20240625	Client:	SoundEarth Strategies
Date Received:	06/25/24	Project:	SOU_0731-004-08_20240625
Date Extracted:	07/01/24	Lab ID:	406357-01 x100
Date Analyzed:	07/03/24	Data File:	406357-01 x100.094
Matrix:	Water	Instrument:	ICPMS3
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Iron	20,000
Manganese	1,200

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW28-20240624	Client:	SoundEarth Strategies
Date Received:	06/25/24	Project:	SOU_0731-004-08_20240625
Date Extracted:	07/01/24	Lab ID:	406357-02 x5
Date Analyzed:	07/03/24	Data File:	406357-02 x5.097
Matrix:	Water	Instrument:	ICPMS3
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Iron	2,600
Manganese	1,800

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	NA	Project:	SOU_0731-004-08_20240625
Date Extracted:	07/01/24	Lab ID:	I4-543 mb
Date Analyzed:	07/01/24	Data File:	I4-543 mb.221
Matrix:	Water	Instrument:	ICPMS3
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Iron	<50
Manganese	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/09/24

Date Received: 06/25/24

Project: SOU_0731-004-08_20240625, F&BI 406357

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

Laboratory Code: 406303-15 (Duplicate)

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	ug/L (ppb)	1,000	100	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/09/24

Date Received: 06/25/24

Project: SOU_0731-004-08_20240625, F&BI 406357

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

Laboratory Code: 406334-04 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	<50	92	88	50-150	4

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	ug/L (ppb)	2,500	84	65-151

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/09/24

Date Received: 06/25/24

Project: SOU_0731-004-08_20240625, F&BI 406357

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

Laboratory Code: 406387-03 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent	Acceptance Criteria
				Recovery MS	
Vinyl chloride	ug/L (ppb)	10	<0.02	110	50-150
trans-1,2-Dichloroethene	ug/L (ppb)	10	<1	103	50-150
cis-1,2-Dichloroethene	ug/L (ppb)	10	<1	105	10-211
Trichloroethene	ug/L (ppb)	10	0.67	98	35-149
Tetrachloroethene	ug/L (ppb)	10	<1	100	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	Percent	Acceptance Criteria	RPD (Limit 20)
			Recovery LCS	Recovery LCSD		
Vinyl chloride	ug/L (ppb)	10	86	99	64-142	14
trans-1,2-Dichloroethene	ug/L (ppb)	10	83	94	70-130	12
cis-1,2-Dichloroethene	ug/L (ppb)	10	84	95	70-130	12
Trichloroethene	ug/L (ppb)	10	86	96	70-130	11
Tetrachloroethene	ug/L (ppb)	10	97	98	70-130	1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/09/24

Date Received: 06/25/24

Project: SOU_0731-004-08_20240625, F&BI 406357

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR TOTAL METALS USING EPA METHOD 200.8**

Laboratory Code: 406425-01 x10 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Iron	ug/L (ppb)	100	32,300	0 b	0 b	70-130	nm
Manganese	ug/L (ppb)	20	476	73 b	0 b	70-130	200 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Iron	ug/L (ppb)	100	91	85-115
Manganese	ug/L (ppb)	20	111	85-115

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

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

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

ca - The calibration results for the analyte were outside of acceptance criteria, 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.

406557

SAMPLE CHAIN OF CUSTODY

06/25/24

06/25/24

Page # 1 of 1

Send Report To Linnea Coleman, Tom

Cammarata

Company SoundEarth StrategiesAddress 1011 Southwest Klickitat Way, Suite 212City, State, ZIP Seattle, WA 98134

SAMPLERS (signature)

TURNAROUND TIME

PROJECT NAME/NO.

Troy Laundry Property

PO #

0731-004-08

Standard (2 Weeks)

Rush charges ~~authorized~~ by:

REMARKS

*cVOCs = PCE, TCE, Cis/Trans-DCE, and Vinyl Chloride Reporting Limit = 0.2 ug/L

EIM Y

SAMPLE DISPOSAL

☒ Dispose after 30 days
Return samples
Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	GRPH by NWTPH-Gx	BTEX by EPA 8021B	DRPH/ORPH by NWTPH-Dx	cVOCs * by EPA 8260C	Methane, Ethane, Ethene by RSK175	Sulfate, Nitrate, Alkalinity by SM1845/SM2320B	Total Fe and Mn by EPA 200.8	Fe 2+ by SM 3500	TOC By EPA 415.1	Notes
MU26-20240625	MU26	-	01	06/25/24	1410	GW	10				X	X	X	X	X	X	
MU28-20240624	MU28	-	02	06/24/24	1610		11	X		X	X	X	X	X	X	X	
MU29R-20240625	MU29R	-	03	06/25/24	1120		3				X						
MU35-20240625	MU35	-	04	06/25/24	0955		3				X						
6/23/24 6/25/24 6/25/24 6/25/24 6/25/24 6/25/24 6/25/24 6/25/24 6/25/24 6/25/24 6/25/24 6/25/24 6/25/24 6/25/24 6/25/24 6/25/24 6/25/24 6/25/24																	
Samples received at 7 °C																	

Friedman & Bruya, Inc.

5500 4th Avenue South

Seattle, WA 98108

Ph. (206) 285-8282

Fax (206) 283-5044

SIGNATURE

PRINT NAME

Linnea Coleman

COMPANY

SES

DATE

6/25/24

TIME

16:20

Received by:

ANH PHAN

Relinquished by:

FBI

06/25/24

16:20

Received by:

Samples received at 7 °C

(up)

SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT # 406357 CLIENT SOU INITIALS/ AP
DATE: 06/25/24

If custody seals are present on cooler, are they intact? ☒ NA ☐ YES ☐ NO

Cooler/Sample temperature 7 °C
Thermometer ID: Fluke 96312917

Were samples received on ice/cold packs? ☐ YES ☒ NO

How did samples arrive?
☒ Over the Counter ☐ Picked up by F&BI ☐ FedEx/UPS/GSO

Is there a Chain-of-Custody* (COC)? ☒ YES ☐ NO Initials/ NP
*or other representative documents, letters, and/or shipping memos Date: 06/25/24

Number of days samples have been sitting prior to receipt at laboratory 0 days

Are the samples clearly identified? (explain "no" answer below) ☒ YES ☐ NO

Were all sample containers received intact (i.e. not broken, leaking etc.)? (explain "no" answer below) ☒ YES ☐ NO

Were appropriate sample containers used? ☒ YES ☐ NO ☐ Unknown

If custody seals are present on samples, are they intact? ☒ NA ☐ YES ☐ NO

Are samples requiring no headspace, headspace free? ☐ NA ☒ YES ☐ NO

Is the following information provided on the COC, and does it match the sample label?
(explain "no" answer below)

Sample ID's	☒ Yes ☐ No	☐ Not on COC/label
Date Sampled	☒ Yes ☐ No	☐ Not on COC/label
Time Sampled	☒ Yes ☐ No	☐ Not on COC/label
# of Containers	☒ Yes ☐ No	
Relinquished	☒ Yes ☐ No	
Requested analysis	☒ Yes ☐ On Hold	

Other comments (use a separate page if needed)

Air Samples: Were any additional canisters/tubes received? ☒ NA ☐ YES ☐ NO

Number of unused TO15 canisters _____ Number of unused TO17 tubes _____



3600 Fremont Ave N
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Friedman & Bruya
Michael Erdahl
5500 4th Ave S
Seattle, WA 98108

RE: 406357,
Work Order Number: 2406451

July 08, 2024

Attention Michael Erdahl:

Fremont Analytical, Inc, an Alliance Technical Group company, received 2 sample(s) on 6/26/2024 for the analyses presented in the following report.

Dissolved Gases by RSK-175
Ferrous Iron by SM3500-Fe B
Ion Chromatography by EPA 300.0
Total Alkalinity by SM 2320B
Total Organic Carbon by SM 5310C

All analyses were performed according to our accredited Quality Assurance program. Please contact the laboratory if you should have any questions about the results.

Please note, while the appearance of our logo and branding will update, our commitment to accuracy, speed, and customer service remain values celebrated and shared by Alliance Technical Group. Thank you for the opportunity to serve you.

Sincerely,

A handwritten signature in blue ink, appearing to read "Brianna Barnes".

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.4 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910



Original

www.fremontanalytical.com



Date: 07/08/2024

CLIENT: Friedman & Bruya
Project: 406357
Work Order: 2406451

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2406451-001	MW26-20240625	06/25/2024 2:10 PM	06/26/2024 12:25 PM
2406451-002	MW28-20240624	06/24/2024 4:10 PM	06/26/2024 12:25 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

Original

CLIENT: Friedman & Bruya
Project: 406357

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate

CLIENT: Friedman & Bruya
Project: 406357

Lab ID: 2406451-001
Client Sample ID: MW26-20240625

Collection Date: 6/25/2024 2:10:00 PM
Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Dissolved Gases by RSK-175

Batch ID: R92841 Analyst: CO

Methane	0.0113	0.00500		mg/L	1	7/3/2024 12:25:00 PM
Ethene	ND	0.0100		mg/L	1	7/3/2024 12:25:00 PM
Ethane	ND	0.0100		mg/L	1	7/3/2024 12:25:00 PM

Ion Chromatography by EPA 300.0

Batch ID: 44364 Analyst: SLL

Nitrate (as N)	ND	0.200		mg/L	1	6/26/2024 8:38:00 PM
Sulfate	33.5	10.0	D	mg/L	10	6/27/2024 2:55:00 PM

Total Organic Carbon by SM 5310C

Batch ID: R92801 Analyst: SS

Total Organic Carbon	1.04	0.700		mg/L	1	7/2/2024 2:40:00 AM
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Total Alkalinity by SM 2320B

Batch ID: R92881 Analyst: NR

Alkalinity, Total (As CaCO ₃)	163	2.50		mg/L	1	7/2/2024 11:15:00 AM
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Ferrous Iron by SM3500-Fe B

Batch ID: R92677 Analyst: SLL

Ferrous Iron	1.35	0.300	DH	mg/L	2	6/26/2024 3:10:52 PM
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CLIENT: Friedman & Bruya
Project: 406357

Lab ID: 2406451-002
Client Sample ID: MW28-20240624

Collection Date: 6/24/2024 4:10:00 PM
Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Dissolved Gases by RSK-175

Batch ID: R92841 Analyst: CO

Methane	0.0341	0.00500		mg/L	1	7/3/2024 12:29:00 PM
Ethene	ND	0.0100		mg/L	1	7/3/2024 12:29:00 PM
Ethane	ND	0.0100		mg/L	1	7/3/2024 12:29:00 PM

Ion Chromatography by EPA 300.0

Batch ID: 44364 Analyst: SLL

Nitrate (as N)	0.668	0.200	H	mg/L	1	6/26/2024 10:11:00 PM
Sulfate	5.15	1.00		mg/L	1	6/26/2024 10:11:00 PM

Total Alkalinity by SM 2320B

Batch ID: R92881 Analyst: NR

Alkalinity, Total (As CaCO ₃)	244	2.50		mg/L	1	7/2/2024 11:15:00 AM
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Ferrous Iron by SM3500-Fe B

Batch ID: R92677 Analyst: SLL

Ferrous Iron	0.155	0.150	H	mg/L	1	6/26/2024 3:10:52 PM
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Work Order: 2406451
CLIENT: Friedman & Bruya
Project: 406357

QC SUMMARY REPORT

Total Alkalinity by SM 2320B

Sample ID: MB-R92881		SampType: MBLK			Units: mg/L		Prep Date: 7/2/2024			RunNo: 92881		
Client ID: MBLKW		Batch ID: R92881			Analysis Date: 7/2/2024					SeqNo: 1938678		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Alkalinity, Total (As CaCO3)	ND	2.50									
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Sample ID: LCS-R92881		SampType: LCS			Units: mg/L		Prep Date: 7/2/2024			RunNo: 92881		
Client ID: LCSW		Batch ID: R92881			Analysis Date: 7/2/2024			SeqNo: 1938679				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Alkalinity, Total (As CaCO3)	106	2.50	100.0	0	106	84.5	124.5				
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Sample ID: 2406451-001BDUP		SampType: DUP			Units: mg/L		Prep Date: 7/2/2024			RunNo: 92881		
Client ID: MW26-20240625		Batch ID: R92881			Analysis Date: 7/2/2024			SeqNo: 1938681				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Alkalinity, Total (As CaCO3)	164	2.50						163.2	0.319	20	
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Work Order: 2406451
CLIENT: Friedman & Bruya
Project: 406357

QC SUMMARY REPORT

Ferrous Iron by SM3500-Fe B

Sample ID: MB-R92677	SampType: MBLK	Units: mg/L		Prep Date: 6/26/2024	RunNo: 92677							
Client ID: MBLKW	Batch ID: R92677			Analysis Date: 6/26/2024	SeqNo: 1934171							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Ferrous Iron	ND	0.150										

Sample ID: LCS-R92677	SampType: LCS	Units: mg/L		Prep Date: 6/26/2024	RunNo: 92677							
Client ID: LCSW	Batch ID: R92677			Analysis Date: 6/26/2024	SeqNo: 1934172							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Ferrous Iron	0.437	0.150	0.4000	0	109	85	115					

Sample ID: 2406451-002CDUP	SampType: DUP	Units: mg/L		Prep Date: 6/26/2024	RunNo: 92677							
Client ID: MW28-20240624	Batch ID: R92677			Analysis Date: 6/26/2024	SeqNo: 1934175							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Ferrous Iron	0.163	0.150						0.1550	5.06	20	H	

Sample ID: 2406451-002CMS	SampType: MS	Units: mg/L		Prep Date: 6/26/2024	RunNo: 92677							
Client ID: MW28-20240624	Batch ID: R92677			Analysis Date: 6/26/2024	SeqNo: 1934176							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Ferrous Iron	0.577	0.150	0.4000	0.1550	105	70	130				H	

Sample ID: 2406451-002CMSD	SampType: MSD	Units: mg/L		Prep Date: 6/26/2024	RunNo: 92677							
Client ID: MW28-20240624	Batch ID: R92677			Analysis Date: 6/26/2024	SeqNo: 1934177							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Ferrous Iron	0.558	0.150	0.4000	0.1550	101	70	130	0.5766	3.31	30	H	

Work Order: 2406451
CLIENT: Friedman & Bruya
Project: 406357

QC SUMMARY REPORT

Ion Chromatography by EPA 300.0

Sample ID: MB-44364	SampType: MBLK	Units: mg/L		Prep Date: 6/26/2024	RunNo: 92719							
Client ID: MBLKW	Batch ID: 44364			Analysis Date: 6/26/2024	SeqNo: 1935219							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Nitrate (as N)	ND	0.200										
Sulfate	ND	1.00										

Sample ID: LCS-44364	SampType: LCS	Units: mg/L		Prep Date: 6/26/2024	RunNo: 92719							
Client ID: LCSW	Batch ID: 44364			Analysis Date: 6/26/2024	SeqNo: 1935220							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Nitrate (as N)	0.721	0.200	0.7500	0	96.1	90	110					
Sulfate	3.55	1.00	3.750	0	94.7	90	110					

Sample ID: 2406451-001BDUP	SampType: DUP	Units: mg/L		Prep Date: 6/26/2024	RunNo: 92719							
Client ID: MW26-20240625	Batch ID: 44364			Analysis Date: 6/26/2024	SeqNo: 1935222							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Nitrate (as N)	ND	0.200						0		20		
Sulfate	33.7	1.00						33.46	0.667	20	E	

Sample ID: 2406451-001BMS	SampType: MS	Units: mg/L		Prep Date: 6/26/2024	RunNo: 92719							
Client ID: MW26-20240625	Batch ID: 44364			Analysis Date: 6/26/2024	SeqNo: 1935223							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Nitrate (as N)	0.970	0.200	0.7500	0.1690	107	80	120					
Sulfate	37.1	1.00	3.750	33.46	96.4	80	120				E	

Sample ID: 2406451-001BMSD	SampType: MSD	Units: mg/L		Prep Date: 6/26/2024	RunNo: 92719							
Client ID: MW26-20240625	Batch ID: 44364			Analysis Date: 6/26/2024	SeqNo: 1935224							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Nitrate (as N)	0.960	0.200	0.7500	0.1690	105	80	120	0.9700	1.04	20		
Sulfate	37.0	1.00	3.750	33.46	93.8	80	120	37.08	0.265	20	E	

Work Order: 2406451
CLIENT: Friedman & Bruya
Project: 406357

QC SUMMARY REPORT

Ion Chromatography by EPA 300.0

Sample ID: 2406451-001BMSD	SampType: MSD	Units: mg/L			Prep Date: 6/26/2024			RunNo: 92719			
Client ID: MW26-20240625	Batch ID: 44364				Analysis Date: 6/26/2024			SeqNo: 1935224			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: 2406479-002ADUP	SampType: DUP	Units: mg/L			Prep Date: 6/27/2024			RunNo: 92719			
Client ID: BATCH	Batch ID: 44364				Analysis Date: 6/27/2024			SeqNo: 1935244			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	0.807	0.200						0.7980	1.12	20	
Sulfate	4.91	1.00						4.840	1.46	20	

Sample ID: 2406479-002AMS	SampType: MS	Units: mg/L			Prep Date: 6/27/2024			RunNo: 92719			
Client ID: BATCH	Batch ID: 44364				Analysis Date: 6/27/2024			SeqNo: 1935245			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	1.62	0.200	0.7500	0.7980	110	80	120				
Sulfate	8.89	1.00	3.750	4.840	108	80	120				

Work Order: 2406451
CLIENT: Friedman & Bruya
Project: 406357

QC SUMMARY REPORT

Total Organic Carbon by SM 5310C

Sample ID: LCS-92801	SampType: LCS	Units: mg/L		Prep Date: 7/2/2024	RunNo: 92801							
Client ID: LCSW	Batch ID: R92801			Analysis Date: 7/2/2024	SeqNo: 1936838							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Total Organic Carbon	4.66	0.700	5.000	0	93.1	87.6	109					

Sample ID: MB-92801	SampType: MBLK	Units: mg/L		Prep Date: 7/2/2024	RunNo: 92801							
Client ID: MBLKW	Batch ID: R92801			Analysis Date: 7/2/2024	SeqNo: 1936839							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Total Organic Carbon	ND	0.700										

Sample ID: 2406412-002ADUP	SampType: DUP	Units: mg/L		Prep Date: 7/2/2024	RunNo: 92801							
Client ID: BATCH	Batch ID: R92801			Analysis Date: 7/2/2024	SeqNo: 1936841							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Total Organic Carbon	0.783	0.700						0.8090	3.27	20		

Sample ID: 2406412-002AMS	SampType: MS	Units: mg/L		Prep Date: 7/2/2024	RunNo: 92801							
Client ID: BATCH	Batch ID: R92801			Analysis Date: 7/2/2024	SeqNo: 1936842							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Total Organic Carbon	5.56	0.700	5.000	0.8090	95.0	76.5	111					

Sample ID: 2406412-002AMSD	SampType: MSD	Units: mg/L		Prep Date: 7/2/2024	RunNo: 92801							
Client ID: BATCH	Batch ID: R92801			Analysis Date: 7/2/2024	SeqNo: 1936855							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Total Organic Carbon	5.52	0.700	5.000	0.8090	94.2	76.5	111	5.557	0.686	30		

Work Order: 2406451
CLIENT: Friedman & Bruya
Project: 406357

QC SUMMARY REPORT
Total Organic Carbon by SM 5310C

Sample ID: 2406499-001DDUP	SampType: DUP	Units: mg/L				Prep Date: 7/2/2024				RunNo: 92801		
Client ID: BATCH	Batch ID: R92801					Analysis Date: 7/2/2024				SeqNo: 1936844		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Total Organic Carbon	26.5	0.700						26.73	0.811	20		

Sample ID: 2406499-001DMS	SampType: MS	Units: mg/L				Prep Date: 7/2/2024			RunNo: 92801		
Client ID: BATCH	Batch ID: R92801					Analysis Date: 7/2/2024			SeqNo: 1936845		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	31.2	0.700	5.000	26.73	89.2	76.5	111				

Work Order: 2406451
 CLIENT: Friedman & Bruya
 Project: 406357

QC SUMMARY REPORT

Dissolved Gases by RSK-175

Sample ID: LCS-R92841		SampType: LCS			Units: ppmv		Prep Date: 7/3/2024			RunNo: 92841		
Client ID: LCSW		Batch ID: R92841			Analysis Date: 7/3/2024			SeqNo: 1937805				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Methane	1,110	0.00500	1,000	0	111	73.6	124				
Ethene	1,090	0.0100	1,000	0	109	76.3	122				
Ethane	1,100	0.0100	1,000	0	110	76.1	123				

Sample ID: MB-R92841		SampType: MBLK		Units: mg/L		Prep Date: 7/3/2024			RunNo: 92841		
Client ID: MBLKW		Batch ID: R92841					Analysis Date: 7/3/2024			SeqNo: 1937804	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane	ND	0.00500									
Ethene	ND	0.0100									
Ethane	ND	0.0100									

Sample ID: 2406451-001AREP		SampType: REP		Units: mg/L		Prep Date: 7/3/2024			RunNo: 92841			
Client ID: MW26-20240625		Batch ID: R92841					Analysis Date: 7/3/2024			SeqNo: 1937788		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Methane	0.00939	0.00500						0.01126	18.2	30	
Ethene	ND	0.0100						0		30	
Ethane	ND	0.0100						0		30	

Client Name: FB

Work Order Number: 2406451

Logged by: Brianna Barnes

Date Received: 6/26/2024 12:25:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒
4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all items received at a temperature of >2°C to 6°C * Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. Is there headspace in the VOA vials? Yes ☐ No ☒ NA ☐
11. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
12. Does paperwork match bottle labels? Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all hold times (except field parameters, pH e.g.) able to be met? Yes ☐ No ☒

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☒ No ☐ NA ☐

Person Notified: Michael Erdahl Date: 6/26/2024

By Whom: Brianna Barnes Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: Expired hold times for Nitrate and Ferrous Iron.

Client Instructions:

17. Additional remarks:

Item Information

Item #	Temp °C
Sample	2.3

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

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 Ave South
Seattle, WA 98108-2419
(206) 285-8282
office@friedmanandbruya.com
www.friedmanandbruya.com

July 10, 2024

Linnea Coleman, Project Manager
SoundEarth Strategies
1011 SW Klickitat Way, Suite 104
Seattle, WA 98134

Dear Ms Coleman:

Included are the results from the testing of material submitted on June 26, 2024 from the SOU_0731-004-08_20240626, F&BI 406391 project. There are 20 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Tom Cammarata
SOU0710R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 26, 2024 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0731-004-08_20240626, F&BI 406391 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
406391 -01	IW04-20240626
406391 -02	IW06-20240626
406391 -03	MW04-20240626
406391 -04	MW07-20240626
406391 -05	MW13-20240626
406391 -06	MW27-20240626
406391 -07	MW31-20240626

Samples IW04-20240626, MW04-20240626, and MW07-20240626 were sent to Alliance Technical Group for sulfate, nitrate, alkalinity, ferrous iron, and TOC analyses. In addition, samples MW04-20240626 and MW07-20240626 were sent for RSK dissolved gases analysis. The report is enclosed.

The 6020B manganese calibration standard exceeded the acceptance criteria for the method blank. The metal was not detected, therefore this did not represent an out of control condition, and the results are not considered estimates.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/10/24

Date Received: 06/26/24

Project: SOU_0731-004-08_20240626, F&BI 406391

Date Extracted: 06/27/24

Date Analyzed: 06/28/24

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

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	Surrogate <u>(% Recovery)</u> (Limit 50-150)
MW13-20240626 406391-05	<100	92
Method Blank 04-1368 MB	<100	88

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/10/24

Date Received: 06/26/24

Project: SOU_0731-004-08_20240626, F&BI 406391

Date Extracted: 06/27/24

Date Analyzed: 06/27/24

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

Results Reported as ug/L (ppb)

<u>Sample ID</u>	<u>Diesel Range</u>	<u>Motor Oil Range</u>	<u>Surrogate</u>
Laboratory ID	(C ₁₀ -C ₂₅)	(C ₂₅ -C ₃₆)	(% Recovery)
			(Limit 50-150)
MW13-20240626	<50	<250	81
406391-05			
Method Blank	<50	<250	76
04-1495 MB2			

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	IW04-20240626	Client:	SoundEarth Strategies
Date Received:	06/26/24	Project:	SOU_0731-004-08_20240626
Date Extracted:	07/01/24	Lab ID:	406391-01
Date Analyzed:	07/01/24	Data File:	070115.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	78	126
Toluene-d8	96	84	115
4-Bromofluorobenzene	100	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	0.20
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	<0.5
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	IW06-20240626	Client:	SoundEarth Strategies
Date Received:	06/26/24	Project:	SOU_0731-004-08_20240626
Date Extracted:	07/01/24	Lab ID:	406391-02
Date Analyzed:	07/01/24	Data File:	070117.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	78	126
Toluene-d8	100	84	115
4-Bromofluorobenzene	105	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	<0.5
Tetrachloroethene	1.3

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW04-20240626	Client:	SoundEarth Strategies
Date Received:	06/26/24	Project:	SOU_0731-004-08_20240626
Date Extracted:	07/01/24	Lab ID:	406391-03
Date Analyzed:	07/01/24	Data File:	070121.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	78	126
Toluene-d8	102	84	115
4-Bromofluorobenzene	105	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	8.6
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW07-20240626	Client:	SoundEarth Strategies
Date Received:	06/26/24	Project:	SOU_0731-004-08_20240626
Date Extracted:	07/01/24	Lab ID:	406391-04
Date Analyzed:	07/01/24	Data File:	070120.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	94	78	126
Toluene-d8	101	84	115
4-Bromofluorobenzene	103	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	4.2
Tetrachloroethene	1.7

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW13-20240626	Client:	SoundEarth Strategies
Date Received:	06/26/24	Project:	SOU_0731-004-08_20240626
Date Extracted:	07/01/24	Lab ID:	406391-05
Date Analyzed:	07/01/24	Data File:	070116.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	78	126
Toluene-d8	98	84	115
4-Bromofluorobenzene	102	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	<0.5
Tetrachloroethene	4.7

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW27-20240626	Client:	SoundEarth Strategies
Date Received:	06/26/24	Project:	SOU_0731-004-08_20240626
Date Extracted:	07/01/24	Lab ID:	406391-06
Date Analyzed:	07/01/24	Data File:	070119.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	78	126
Toluene-d8	95	84	115
4-Bromofluorobenzene	101	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	1.5
Trichloroethene	20
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW31-20240626	Client:	SoundEarth Strategies
Date Received:	06/26/24	Project:	SOU_0731-004-08_20240626
Date Extracted:	07/01/24	Lab ID:	406391-07
Date Analyzed:	07/01/24	Data File:	070118.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	78	126
Toluene-d8	99	84	115
4-Bromofluorobenzene	101	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	4.3
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0731-004-08_20240626
Date Extracted:	07/01/24	Lab ID:	04-1468 mb
Date Analyzed:	07/01/24	Data File:	070109.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	78	126
Toluene-d8	99	84	115
4-Bromofluorobenzene	103	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	<0.5
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	IW04-20240626	Client:	SoundEarth Strategies
Date Received:	06/26/24	Project:	SOU_0731-004-08_20240626
Date Extracted:	07/01/24	Lab ID:	406391-01 x100
Date Analyzed:	07/08/24	Data File:	406391-01 x100.169
Matrix:	Water	Instrument:	ICPMS3
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Iron	18,000
Manganese	5,900

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW04-20240626	Client:	SoundEarth Strategies
Date Received:	06/26/24	Project:	SOU_0731-004-08_20240626
Date Extracted:	07/01/24	Lab ID:	406391-03
Date Analyzed:	07/03/24	Data File:	406391-03.156
Matrix:	Water	Instrument:	ICPMS3
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Iron	160
Manganese	7.2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW07-20240626	Client:	SoundEarth Strategies
Date Received:	06/26/24	Project:	SOU_0731-004-08_20240626
Date Extracted:	07/01/24	Lab ID:	406391-04
Date Analyzed:	07/03/24	Data File:	406391-04.157
Matrix:	Water	Instrument:	ICPMS3
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Iron	110
Manganese	4.2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	NA	Project:	SOU_0731-004-08_20240626
Date Extracted:	07/01/24	Lab ID:	I4-541 mb
Date Analyzed:	07/01/24	Data File:	I4-541 mb.217
Matrix:	Water	Instrument:	ICPMS3
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Iron	<50
Manganese	<1 k

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/10/24

Date Received: 06/26/24

Project: SOU_0731-004-08_20240626, F&BI 406391

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

Laboratory Code: 406359-08 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Gasoline	ug/L (ppb)	1,000	<100	108	107	50-150	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	ug/L (ppb)	1,000	100	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/10/24

Date Received: 06/26/24

Project: SOU_0731-004-08_20240626, F&BI 406391

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

Laboratory Code: 406334-04 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	<50	92	88	50-150	4

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	ug/L (ppb)	2,500	84	65-151

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/10/24

Date Received: 06/26/24

Project: SOU_0731-004-08_20240626, F&BI 406391

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

Laboratory Code: 406412-05 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent	Acceptance Criteria
				Recovery MS	
Vinyl chloride	ug/L (ppb)	10	<0.02	107	50-150
trans-1,2-Dichloroethene	ug/L (ppb)	10	<1	97	50-150
cis-1,2-Dichloroethene	ug/L (ppb)	10	<1	98	10-211
Trichloroethene	ug/L (ppb)	10	<0.5	98	35-149
Tetrachloroethene	ug/L (ppb)	10	<1	102	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	Percent	Acceptance Criteria	RPD (Limit 20)
			Recovery LCS	Recovery LCSD		
Vinyl chloride	ug/L (ppb)	10	99	95	64-142	4
trans-1,2-Dichloroethene	ug/L (ppb)	10	94	88	70-130	7
cis-1,2-Dichloroethene	ug/L (ppb)	10	93	90	70-130	3
Trichloroethene	ug/L (ppb)	10	97	96	70-130	1
Tetrachloroethene	ug/L (ppb)	10	99	97	70-130	2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/10/24

Date Received: 06/26/24

Project: SOU_0731-004-08_20240626, F&BI 406391

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR TOTAL METALS USING EPA METHOD 200.8**

Laboratory Code: 406430-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Iron	ug/L (ppb)	100	1,480	169 b	72 b	70-130	80 b
Manganese	ug/L (ppb)	20	1,510	651 b	50 b	70-130	171 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Iron	ug/L (ppb)	100	106	85-115
Manganese	ug/L (ppb)	20	111	85-115

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

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

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

ca - The calibration results for the analyte were outside of acceptance criteria, 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.

SAMPLE CHAIN OF CUSTODY

06/26/24

VW4/L/I21

Page # 1 of 1

406391

Send Report To ~~East Environmental~~ Linnea Coleman, Tom Cammarata

Company SoundEarth Strategies

Address 1011 Southwest Klickitat Way, Suite 212

City, State, ZIP Seattle, WA 98134

SAMPLERS (signature)

Linnea Coleman

PROJECT NAME/NO.

Troy Laundry Property

PO #

0731-004-08

REMARKS

*cVOCs = PCE, TCE, Cis/Trans-DCE, and Vinyl Chloride Reporting Limit = 0.2 ug/L

EIM Y

TURNAROUND TIME

Standard (2 Weeks)

Rush charges authorized by:

SAMPLE DISPOSAL

⊗ Dispose after 30 days
Return samples
Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	GRPH by NWTTPH-Gx	BTEX by EPA 8021B	DRPH/ORPH by NWTTPH-Dx	cVOCs * by EPA 8260C	Methane, Ethane, Ethené by RSK175	Sulfate, Nitrate, Alkalinity by SM1845/SM2320B	Total Fe and Mn by EPA 200.8	Fe 2+ by SM 3500	TOC By EPA 415.1	Notes
IJ004-20240626	IJ004	—	0140	6/26/24	15:20	H2O	3	X			X		X	X	X		
IJ006-20240626	IJ006	—	0240	6/26/24	16:15		10	X			X		X	X	X		
MW07-20240626	MW07	—	0340	6/26/24	13:55		10	X			X		X	X	X		
MW07-20240626	MW07	—	0440	6/26/24	12:50		5	X			X		X	X	X		
MW13-20240626	MW13	—	0540	6/26/24	11:25		3				X		X				
MW27-20240626	MW27	—	0640	6/26/24	12:15		3				X		X				
MW31-20240626	MW31	—	0740	6/26/24	11:05		3				X		X				
<i>6/26/24</i>																	

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

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
<i>Linnea Coleman</i>	Linnea Coleman	SES	6/26/24	17:27
Received by: <i>Ad. W.B.</i>	Liz Weber-Bruya	FIB	6/26/24	17:27
Relinquished by:				
Received by:				

Samples received at 4°C

SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT # 406391 CLIENT S&U INITIALS/ EMB
DATE: 6/26

If custody seals are present on cooler, are they intact? ☒ NA ☐ YES ☐ NO

Cooler/Sample temperature 4 °C
Thermometer ID: Fluke 96312917

Were samples received on ice/cold packs? ☒ YES ☐ NO

How did samples arrive?
☒ Over the Counter ☐ Picked up by F&BI ☐ FedEx/UPS/GSO

Is there a Chain-of-Custody* (COC)? ☒ YES ☐ NO Initials/ AMB
*or other representative documents, letters, and/or shipping memos Date: 6/27

Number of days samples have been sitting prior to receipt at laboratory 0 days

Are the samples clearly identified? (explain "no" answer below) ☒ YES ☐ NO

Were all sample containers received intact (i.e. not broken, leaking etc.)? (explain "no" answer below) ☒ YES ☐ NO

Were appropriate sample containers used? ☒ YES ☐ NO ☐ Unknown

If custody seals are present on samples, are they intact? ☒ NA ☐ YES ☐ NO

Are samples requiring no headspace, headspace free? ☐ NA ☒ YES ☐ NO

Is the following information provided on the COC, and does it match the sample label?
(explain "no" answer below)

Sample ID's	☒ Yes ☐ No	☐ Not on COC/label
Date Sampled	☒ Yes ☐ No	☐ Not on COC/label
Time Sampled	☒ Yes ☐ No	☐ Not on COC/label
# of Containers	☒ Yes ☐ No	
Relinquished	☒ Yes ☐ No	
Requested analysis	☒ Yes ☐ On Hold	

Other comments (use a separate page if needed)

Air Samples: Were any additional canisters/tubes received? ☐ NA ☐ YES ☐ NO

Number of unused TO15 canisters _____ Number of unused TO17 tubes _____

Friedman & Bruya

Michael Erdahl

5500 4th Ave S

Seattle, WA 98108

RE: 406391,

Work Order Number: 2406496

July 08, 2024

Attention Michael Erdahl:

Fremont Analytical, Inc, an Alliance Technical Group company, received 3 sample(s) on 6/27/2024 for the analyses presented in the following report.

Dissolved Gases by RSK-175

Ferrous Iron by SM3500-Fe B

Ion Chromatography by EPA 300.0

Total Alkalinity by SM 2320B

Total Organic Carbon by SM 5310C

All analyses were performed according to our accredited Quality Assurance program. Please contact the laboratory if you should have any questions about the results.

Please note, while the appearance of our logo and branding will update, our commitment to accuracy, speed, and customer service remain values celebrated and shared by Alliance Technical Group. Thank you for the opportunity to serve you.

Sincerely,



Brianna Barnes

Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.4 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910



Original



Date: 07/08/2024

CLIENT: Friedman & Bruya
Project: 406391
Work Order: 2406496

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2406496-001	IW04-20240626	06/26/2024 3:20 PM	06/27/2024 2:05 PM
2406496-002	MW04-20240626	06/26/2024 1:55 PM	06/27/2024 2:05 PM
2406496-003	MW07-20240626	06/26/2024 12:50 PM	06/27/2024 2:05 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

Original

CLIENT: Friedman & Bruya

Project: 406391

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate

CLIENT: Friedman & Bruya
Project: 406391

Lab ID: 2406496-001

Collection Date: 6/26/2024 3:20:00 PM

Client Sample ID: IW04-20240626

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Ion Chromatography by EPA 300.0

Batch ID: 44376 Analyst: SLL

Nitrate (as N)	ND	2.00	D	mg/L	10	6/27/2024 9:53:00 PM
Sulfate	ND	2.50	DH	mg/L	2.5	6/28/2024 7:50:00 PM

NOTES:

Diluted due to matrix.

Total Organic Carbon by SM 5310C

Batch ID: R92801 Analyst: SS

Total Organic Carbon	15.3	0.700		mg/L	1	7/2/2024 8:56:00 AM
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Total Alkalinity by SM 2320B

Batch ID: R92899 Analyst: SS

Alkalinity, Total (As CaCO ₃)	248	2.50		mg/L	1	7/8/2024 10:00:00 AM
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Ferrous Iron by SM3500-Fe B

Batch ID: R92712 Analyst: BB

Ferrous Iron	18.2	1.50	DH	mg/L	10	6/27/2024 4:07:00 PM
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CLIENT: Friedman & Bruya
Project: 406391

Lab ID: 2406496-002

Collection Date: 6/26/2024 1:55:00 PM

Client Sample ID: MW04-20240626

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Dissolved Gases by RSK-175

Batch ID: R92887 Analyst: CO

Methane	ND	0.00500		mg/L	1	7/5/2024 4:33:00 PM
Ethene	ND	0.0100		mg/L	1	7/5/2024 4:33:00 PM
Ethane	ND	0.0100		mg/L	1	7/5/2024 4:33:00 PM

Ion Chromatography by EPA 300.0

Batch ID: 44376 Analyst: SLL

Nitrate (as N)	18.7	2.00	D	mg/L	10	6/27/2024 10:16:00 PM
Sulfate	47.4	10.0	D	mg/L	10	6/27/2024 10:16:00 PM

Total Organic Carbon by SM 5310C

Batch ID: R92801 Analyst: SS

Total Organic Carbon	0.740	0.700		mg/L	1	7/2/2024 9:27:00 AM
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Total Alkalinity by SM 2320B

Batch ID: R92899 Analyst: SS

Alkalinity, Total (As CaCO ₃)	60.5	2.50		mg/L	1	7/8/2024 10:00:00 AM
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Ferrous Iron by SM3500-Fe B

Batch ID: R92712 Analyst: BB

Ferrous Iron	ND	1.50	DH	mg/L	10	6/27/2024 4:07:00 PM
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CLIENT: Friedman & Bruya
Project: 406391

Lab ID: 2406496-003
Client Sample ID: MW07-20240626

Collection Date: 6/26/2024 12:50:00 PM
Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Dissolved Gases by RSK-175</u>				Batch ID: R92887		Analyst: CO
Methane	ND	0.00500		mg/L	1	7/5/2024 4:36:00 PM
Ethene	ND	0.0100		mg/L	1	7/5/2024 4:36:00 PM
Ethane	ND	0.0100		mg/L	1	7/5/2024 4:36:00 PM
<u>Ion Chromatography by EPA 300.0</u>				Batch ID: 44376		Analyst: SLL
Nitrate (as N)	30.2	2.00	D	mg/L	10	6/27/2024 10:39:00 PM
Sulfate	38.0	10.0	D	mg/L	10	6/27/2024 10:39:00 PM
<u>Total Organic Carbon by SM 5310C</u>				Batch ID: R92801		Analyst: SS
Total Organic Carbon	0.794	0.700		mg/L	1	7/2/2024 9:46:00 AM
<u>Total Alkalinity by SM 2320B</u>				Batch ID: R92899		Analyst: SS
Alkalinity, Total (As CaCO ₃)	24.5	2.50		mg/L	1	7/8/2024 10:00:00 AM
<u>Ferrous Iron by SM3500-Fe B</u>				Batch ID: R92712		Analyst: BB
Ferrous Iron	ND	1.50	DH	mg/L	10	6/27/2024 4:07:00 PM

Work Order: 2406496
CLIENT: Friedman & Bruya
Project: 406391

QC SUMMARY REPORT

Total Alkalinity by SM 2320B

Sample ID: MB-R92899	SampType: MBLK	Units: mg/L				Prep Date: 7/8/2024				RunNo: 92899		
Client ID: MBLKW	Batch ID: R92899					Analysis Date: 7/8/2024				SeqNo: 1939174		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Alkalinity, Total (As CaCO3)	ND	2.50										

Sample ID: LCS-R92899	SampType: LCS	Units: mg/L				Prep Date: 7/8/2024				RunNo: 92899		
Client ID: LCSW	Batch ID: R92899					Analysis Date: 7/8/2024				SeqNo: 1939175		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Alkalinity, Total (As CaCO3)	108	2.50	100.0	0	108	84.5	124.5					

Sample ID: 2406496-001ADUP	SampType: DUP	Units: mg/L				Prep Date: 7/8/2024				RunNo: 92899		
Client ID: IW04-20240626	Batch ID: R92899					Analysis Date: 7/8/2024				SeqNo: 1939177		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Alkalinity, Total (As CaCO3)	246	2.50						247.7	0.784	20		

Work Order: 2406496
CLIENT: Friedman & Bruya
Project: 406391

QC SUMMARY REPORT

Ferrous Iron by SM3500-Fe B

Sample ID: MB-R92712		SampType: MBLK			Units: mg/L		Prep Date: 6/27/2024			RunNo: 92712		
Client ID: MBLKW		Batch ID: R92712						Analysis Date: 6/27/2024			SeqNo: 1935084	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Ferrous Iron	ND	0.150										

Sample ID: LCS-R92712		SampType: LCS			Units: mg/L		Prep Date: 6/27/2024			RunNo: 92712		
Client ID: LCSW		Batch ID: R92712						Analysis Date: 6/27/2024			SeqNo: 1935085	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Ferrous Iron	0.453	0.150	0.4000	0	113	85	115					

Sample ID: 2406496-001BDUP		SampType: DUP			Units: mg/L		Prep Date: 6/27/2024			RunNo: 92712		
Client ID: IW04-20240626		Batch ID: R92712						Analysis Date: 6/27/2024			SeqNo: 1935087	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Ferrous Iron	18.3	1.50						18.22	0.441	20	DH	

Sample ID: 2406496-001BMS		SampType: MS			Units: mg/L		Prep Date: 6/27/2024			RunNo: 92712		
Client ID: IW04-20240626		Batch ID: R92712						Analysis Date: 6/27/2024			SeqNo: 1935088	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Ferrous Iron	23.2	1.50	4.000	18.22	126	70	130				DH	

Sample ID: 2406496-001BMSD		SampType: MSD			Units: mg/L		Prep Date: 6/27/2024			RunNo: 92712		
Client ID: IW04-20240626		Batch ID: R92712						Analysis Date: 6/27/2024			SeqNo: 1935089	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Ferrous Iron	23.2	1.50	4.000	18.22	126	70	130	23.24	0	30	DH	

Work Order: 2406496
CLIENT: Friedman & Bruya
Project: 406391

QC SUMMARY REPORT

Ion Chromatography by EPA 300.0

Sample ID: MB-44376		SampType: MBLK		Units: mg/L		Prep Date: 6/27/2024			RunNo: 92785		
Client ID: MBLKW		Batch ID: 44376					Analysis Date: 6/27/2024			SeqNo: 1936370	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate (as N)	ND	0.200									
Sulfate	ND	1.00									

Sample ID: LCS-44376		SampType: LCS			Units: mg/L		Prep Date: 6/27/2024			RunNo: 92785		
Client ID: LCSW		Batch ID: 44376			Analysis Date: 6/27/2024			SeqNo: 1936371				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Nitrate (as N)	0.723	0.200	0.7500	0	96.4	90	110				
Sulfate	3.65	1.00	3.750	0	97.3	90	110				

Sample ID: 2406495-001ADUP		SampType: DUP			Units: mg/L		Prep Date: 6/27/2024			RunNo: 92785		
Client ID: BATCH		Batch ID: 44376			Analysis Date: 6/27/2024				SeqNo: 1936373			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Nitrate (as N)	40.5	2.00						40.55	0.123	20	D
Sulfate	58.6	10.0						58.87	0.477	20	D

Sample ID: 2406495-001AMS		SampType: MS		Units: mg/L		Prep Date: 6/27/2024			RunNo: 92785		
Client ID: BATCH		Batch ID: 44376					Analysis Date: 6/27/2024			SeqNo: 1936374	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate (as N)	47.8	2.00	7.500	40.55	96.9	80	120				D
Sulfate	98.5	10.0	37.50	58.87	106	80	120				D

Sample ID: 2406495-001AMSD	SampType: MSD	Units: mg/L			Prep Date: 6/27/2024				RunNo: 92785			
Client ID: BATCH	Batch ID: 44376					Analysis Date: 6/27/2024				SeqNo: 1936375		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Nitrate (as N)	48.0	2.00	7.500	40.55	98.9	80	120	47.82	0.313	20	D
Sulfate	98.8	10.0	37.50	58.87	106	80	120	98.53	0.223	20	D

Work Order: 2406496
 CLIENT: Friedman & Bruya
 Project: 406391

QC SUMMARY REPORT

Ion Chromatography by EPA 300.0

Sample ID: 2406495-001AMSD		SampType: MSD		Units: mg/L		Prep Date: 6/27/2024			RunNo: 92785		
Client ID: BATCH		Batch ID: 44376		Analysis Date: 6/27/2024					SeqNo: 1936375		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Work Order: 2406496
CLIENT: Friedman & Bruya
Project: 406391

QC SUMMARY REPORT

Total Organic Carbon by SM 5310C

Sample ID: LCS-92801	SampType: LCS	Units: mg/L		Prep Date: 7/2/2024	RunNo: 92801							
Client ID: LCSW	Batch ID: R92801			Analysis Date: 7/2/2024	SeqNo: 1936838							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Total Organic Carbon	4.66	0.700	5.000	0	93.1	87.6	109					

Sample ID: MB-92801	SampType: MBLK	Units: mg/L		Prep Date: 7/2/2024	RunNo: 92801							
Client ID: MBLKW	Batch ID: R92801			Analysis Date: 7/2/2024	SeqNo: 1936839							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Total Organic Carbon	ND	0.700										

Sample ID: 2406412-002ADUP	SampType: DUP	Units: mg/L		Prep Date: 7/2/2024	RunNo: 92801							
Client ID: BATCH	Batch ID: R92801			Analysis Date: 7/2/2024	SeqNo: 1936841							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Total Organic Carbon	0.783	0.700						0.8090	3.27	20		

Sample ID: 2406412-002AMS	SampType: MS	Units: mg/L		Prep Date: 7/2/2024	RunNo: 92801							
Client ID: BATCH	Batch ID: R92801			Analysis Date: 7/2/2024	SeqNo: 1936842							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Total Organic Carbon	5.56	0.700	5.000	0.8090	95.0	76.5	111					

Sample ID: 2406412-002AMSD	SampType: MSD	Units: mg/L		Prep Date: 7/2/2024	RunNo: 92801							
Client ID: BATCH	Batch ID: R92801			Analysis Date: 7/2/2024	SeqNo: 1936855							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Total Organic Carbon	5.52	0.700	5.000	0.8090	94.2	76.5	111	5.557	0.686	30		

Work Order: 2406496
CLIENT: Friedman & Bruya
Project: 406391

QC SUMMARY REPORT
Total Organic Carbon by SM 5310C

Sample ID: 2406499-001DDUP	SampType: DUP	Units: mg/L			Prep Date: 7/2/2024			RunNo: 92801			
Client ID: BATCH	Batch ID: R92801	Analysis Date: 7/2/2024			SeqNo: 1936844						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	26.5	0.700						26.73	0.811	20	

Sample ID: 2406499-001DMS	SampType: MS	Units: mg/L			Prep Date: 7/2/2024			RunNo: 92801			
Client ID: BATCH	Batch ID: R92801	Analysis Date: 7/2/2024			SeqNo: 1936845						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	31.2	0.700	5.000	26.73	89.2	76.5	111				

Work Order: 2406496
 CLIENT: Friedman & Bruya
 Project: 406391

QC SUMMARY REPORT

Dissolved Gases by RSK-175

Sample ID: LCS-R92887		SampType: LCS		Units: ppmv		Prep Date: 7/5/2024			RunNo: 92887		
Client ID: LCSW		Batch ID: R92887					Analysis Date: 7/5/2024			SeqNo: 1938846	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane	1,080	0.00500	1,000	0	108	73.6	124				
Ethene	1,040	0.0100	1,000	0	104	76.3	122				
Ethane	1,040	0.0100	1,000	0	104	76.1	123				

Sample ID: MB-R92887		SampType: MBLK		Units: mg/L		Prep Date: 7/5/2024			RunNo: 92887		
Client ID: MBLKW		Batch ID: R92887					Analysis Date: 7/5/2024			SeqNo: 1938844	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane	ND	0.00500									
Ethene	ND	0.0100									
Ethane	ND	0.0100									

Sample ID: 2406495-001CREP		SampType: REP		Units: mg/L		Prep Date: 7/5/2024			RunNo: 92887		
Client ID: BATCH		Batch ID: R92887					Analysis Date: 7/5/2024			SeqNo: 1938832	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane	ND	0.00500						0		30	
Ethene	ND	0.0100						0		30	
Ethane	ND	0.0100						0		30	

Client Name: FB

Work Order Number: 2406496

Logged by: Morgan Wilson

Date Received: 6/27/2024 2:05:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒
4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all items received at a temperature of >2°C to 6°C * Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. Is there headspace in the VOA vials? Yes ☐ No ☒ NA ☐
11. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
12. Does paperwork match bottle labels? Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all hold times (except field parameters, pH e.g.) able to be met? Yes ☒ No ☐

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via:

☐

eMail

☐

Phone

☐

Fax

☐

In Person

Regarding:

Client Instructions:

17. Additional remarks:

Item Information

Item #	Temp °C
Sample	5.2

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

2406496

TURNAROUND TIME

PROJECT NAME/NO.

406391

REMARKS

EIMI

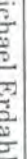
SAMPLE DISPOSAL

Dispose after 30 days

Return samples

Will call with instructions

Phone # (206) 285-8282 merdahl@friedmanandbruya.com

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
	Michael Erdahl	Friedman & Bruya	6/7/74	0947
	Nathan Lobels	ATG	6/27/84	1905
Received by:				
Relinquished by:				
Received by:				

Page 16 of 17

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 Ave South
Seattle, WA 98108-2419
(206) 285-8282
office@friedmanandbruya.com
www.friedmanandbruya.com

July 11, 2024

Levi Fernandes, Project Manager
SoundEarth Strategies
1011 SW Klickitat Way, Suite 104
Seattle, WA 98134

Dear Mr Fernandes:

Included are the results from the testing of material submitted on June 28, 2024 from the SOU_0731-004-08_20240628, F&BI 406432 project. There are 28 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Linnea Coleman, Tom Cammarata
SOU0711R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 28, 2024 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0731-004-08_20240628, F&BI 406432 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
406432 -01	MW18-20240627
406432 -02	MW19-20240627
406432 -03	MW21-20240627
406432 -04	MW22-20240627
406432 -05	MW23-20240627
406432 -06	MW24-20240627
406432 -07	MW25-20240627
406432 -08	MW99-20240627
406432 -09	IW50-20240627
406432 -10	IW61-20240627

The samples were sent to Alliance Technical Group for RSK dissolved gases, sulfate, nitrate, alkalinity, RSK dissolved gases, and ferrous iron analyses as marked on the chain of custody. The report is enclosed.

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/11/24

Date Received: 06/28/24

Project: SOU_0731-004-08_20240628, F&BI 406432

Date Extracted: 07/02/24

Date Analyzed: 07/02/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING METHOD NWTPH-G_x**
Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	Surrogate <u>(% Recovery)</u> (Limit 50-150)
MW21-20240627 406432-03	<100	98
MW22-20240627 406432-04	<100	103
Method Blank 04-1377 MB	<100	105

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/11/24

Date Received: 06/28/24

Project: SOU_0731-004-08_20240628, F&BI 406432

Date Extracted: 07/02/24

Date Analyzed: 07/02/24

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

Results Reported as ug/L (ppb)

<u>Sample ID</u>	<u>Diesel Range</u>	<u>Motor Oil Range</u>	<u>Surrogate</u>
Laboratory ID	(C ₁₀ -C ₂₅)	(C ₂₅ -C ₃₆)	(% Recovery)
			(Limit 50-150)
MW21-20240627	3,900 x	850 x	ip
406432-03			
MW22-20240627	5,000 x	490 x	ip
406432-04			
Method Blank	<50	<250	74
04-1530 MB			

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW18-20240627	Client:	SoundEarth Strategies
Date Received:	06/28/24	Project:	SOU_0731-004-08_20240628
Date Extracted:	07/01/24	Lab ID:	406432-01
Date Analyzed:	07/02/24	Data File:	070149.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	78	126
Toluene-d8	104	84	115
4-Bromofluorobenzene	113	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	2.4
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	3.6
Trichloroethene	<0.5
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW19-20240627	Client:	SoundEarth Strategies
Date Received:	06/28/24	Project:	SOU_0731-004-08_20240628
Date Extracted:	07/01/24	Lab ID:	406432-02
Date Analyzed:	07/02/24	Data File:	070150.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	78	126
Toluene-d8	106	84	115
4-Bromofluorobenzene	105	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	2.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	<0.5
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW21-20240627	Client:	SoundEarth Strategies
Date Received:	06/28/24	Project:	SOU_0731-004-08_20240628
Date Extracted:	07/01/24	Lab ID:	406432-03
Date Analyzed:	07/02/24	Data File:	070153.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	78	126
Toluene-d8	102	84	115
4-Bromofluorobenzene	106	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	1.9
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	2.4
Trichloroethene	<0.5
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW22-20240627	Client:	SoundEarth Strategies
Date Received:	06/28/24	Project:	SOU_0731-004-08_20240628
Date Extracted:	07/01/24	Lab ID:	406432-04
Date Analyzed:	07/02/24	Data File:	070158.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	78	126
Toluene-d8	104	84	115
4-Bromofluorobenzene	109	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	1.8
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	46
Trichloroethene	<0.5
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW23-20240627	Client:	SoundEarth Strategies
Date Received:	06/28/24	Project:	SOU_0731-004-08_20240628
Date Extracted:	07/01/24	Lab ID:	406432-05
Date Analyzed:	07/02/24	Data File:	070155.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

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

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	2.0
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	5.5
Trichloroethene	<0.5
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW24-20240627	Client:	SoundEarth Strategies
Date Received:	06/28/24	Project:	SOU_0731-004-08_20240628
Date Extracted:	07/01/24	Lab ID:	406432-06
Date Analyzed:	07/02/24	Data File:	070151.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	78	126
Toluene-d8	102	84	115
4-Bromofluorobenzene	110	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	1.3
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	1.4
Trichloroethene	<0.5
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW25-20240627	Client:	SoundEarth Strategies
Date Received:	06/28/24	Project:	SOU_0731-004-08_20240628
Date Extracted:	07/01/24	Lab ID:	406432-07
Date Analyzed:	07/02/24	Data File:	070152.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	78	126
Toluene-d8	101	84	115
4-Bromofluorobenzene	106	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	1.8
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	4.3
Trichloroethene	6.6
Tetrachloroethene	3.8

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW99-20240627	Client:	SoundEarth Strategies
Date Received:	06/28/24	Project:	SOU_0731-004-08_20240628
Date Extracted:	07/01/24	Lab ID:	406432-08
Date Analyzed:	07/02/24	Data File:	070154.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	78	126
Toluene-d8	100	84	115
4-Bromofluorobenzene	102	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	1.5
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	3.4
Trichloroethene	5.5
Tetrachloroethene	3.2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	IW50-20240627	Client:	SoundEarth Strategies
Date Received:	06/28/24	Project:	SOU_0731-004-08_20240628
Date Extracted:	07/01/24	Lab ID:	406432-09
Date Analyzed:	07/02/24	Data File:	070156.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	78	126
Toluene-d8	100	84	115
4-Bromofluorobenzene	104	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	4.7
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	24
Trichloroethene	3.9
Tetrachloroethene	10

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	IW61-20240627	Client:	SoundEarth Strategies
Date Received:	06/28/24	Project:	SOU_0731-004-08_20240628
Date Extracted:	07/01/24	Lab ID:	406432-10
Date Analyzed:	07/02/24	Data File:	070157.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	78	126
Toluene-d8	106	84	115
4-Bromofluorobenzene	104	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	3.0
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	46
Trichloroethene	<0.5
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0731-004-08_20240628
Date Extracted:	07/01/24	Lab ID:	04-1470 mb
Date Analyzed:	07/01/24	Data File:	070136.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	78	126
Toluene-d8	100	84	115
4-Bromofluorobenzene	104	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	<0.5
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW18-20240627	Client:	SoundEarth Strategies
Date Received:	06/28/24	Project:	SOU_0731-004-08_20240628
Date Extracted:	07/01/24	Lab ID:	406432-01 x200
Date Analyzed:	07/03/24	Data File:	406432-01 x200.212
Matrix:	Water	Instrument:	ICPMS3
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	24,000
Manganese	10,000

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW19-20240627	Client:	SoundEarth Strategies
Date Received:	06/28/24	Project:	SOU_0731-004-08_20240628
Date Extracted:	07/01/24	Lab ID:	406432-02 x100
Date Analyzed:	07/08/24	Data File:	406432-02 x100.160
Matrix:	Water	Instrument:	ICPMS3
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Iron	20,000
Manganese	9,300

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW22-20240627	Client:	SoundEarth Strategies
Date Received:	06/28/24	Project:	SOU_0731-004-08_20240628
Date Extracted:	07/01/24	Lab ID:	406432-04 x200
Date Analyzed:	07/03/24	Data File:	406432-04 x200.220
Matrix:	Water	Instrument:	ICPMS3
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Iron	22,000
Manganese	9,800

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW23-20240627	Client:	SoundEarth Strategies
Date Received:	06/28/24	Project:	SOU_0731-004-08_20240628
Date Extracted:	07/01/24	Lab ID:	406432-05 x100
Date Analyzed:	07/03/24	Data File:	406432-05 x100.191
Matrix:	Water	Instrument:	ICPMS3
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Iron	5,800
Manganese	12,000

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW24-20240627	Client:	SoundEarth Strategies
Date Received:	06/28/24	Project:	SOU_0731-004-08_20240628
Date Extracted:	07/01/24	Lab ID:	406432-06 x100
Date Analyzed:	07/03/24	Data File:	406432-06 x100.192
Matrix:	Water	Instrument:	ICPMS3
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Iron	13,000
Manganese	19,000

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW25-20240627	Client:	SoundEarth Strategies
Date Received:	06/28/24	Project:	SOU_0731-004-08_20240628
Date Extracted:	07/01/24	Lab ID:	406432-07 x50
Date Analyzed:	07/03/24	Data File:	406432-07 x50.193
Matrix:	Water	Instrument:	ICPMS3
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Iron	5,500
Manganese	5,300

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	IW50-20240627	Client:	SoundEarth Strategies
Date Received:	06/28/24	Project:	SOU_0731-004-08_20240628
Date Extracted:	07/01/24	Lab ID:	406432-09 x50
Date Analyzed:	07/03/24	Data File:	406432-09 x50.194
Matrix:	Water	Instrument:	ICPMS3
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Iron	6,500
Manganese	7,800

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	IW61-20240627	Client:	SoundEarth Strategies
Date Received:	06/28/24	Project:	SOU_0731-004-08_20240628
Date Extracted:	07/01/24	Lab ID:	406432-10 x100
Date Analyzed:	07/03/24	Data File:	406432-10 x100.195
Matrix:	Water	Instrument:	ICPMS3
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Iron	11,000
Manganese	13,000

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	NA	Project:	SOU_0731-004-08_20240628
Date Extracted:	07/01/24	Lab ID:	I4-543 mb
Date Analyzed:	07/01/24	Data File:	I4-543 mb.221
Matrix:	Water	Instrument:	ICPMS3
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Iron	<50
Manganese	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/11/24

Date Received: 06/28/24

Project: SOU_0731-004-08_20240628, F&BI 406432

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

Laboratory Code: 406432-03 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Gasoline	ug/L (ppb)	<100	110	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	ug/L (ppb)	1,000	93	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/11/24

Date Received: 06/28/24

Project: SOU_0731-004-08_20240628, F&BI 406432

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	88	96	65-151	9

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/11/24

Date Received: 06/28/24

Project: SOU_0731-004-08_20240628, F&BI 406432

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

Laboratory Code: 406334-04 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	10	<0.02	101	105	50-150	4
trans-1,2-Dichloroethene	ug/L (ppb)	10	<1	92	98	50-150	6
cis-1,2-Dichloroethene	ug/L (ppb)	10	<1	91	94	10-211	3
Trichloroethene	ug/L (ppb)	10	<0.5	91	95	35-149	4
Tetrachloroethene	ug/L (ppb)	10	<1	93	96	50-150	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	10	101	101	64-142	0
trans-1,2-Dichloroethene	ug/L (ppb)	10	94	92	70-130	2
cis-1,2-Dichloroethene	ug/L (ppb)	10	94	90	70-130	4
Trichloroethene	ug/L (ppb)	10	98	94	70-130	4
Tetrachloroethene	ug/L (ppb)	10	104	101	70-130	3

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/11/24

Date Received: 06/28/24

Project: SOU_0731-004-08_20240628, F&BI 406432

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR TOTAL METALS USING EPA METHOD 200.8**

Laboratory Code: 406425-01 x10 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Iron	ug/L (ppb)	100	32,300	0 b	0 b	70-130	nm
Manganese	ug/L (ppb)	20	476	73 b	0 b	70-130	200 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Iron	ug/L (ppb)	100	91	85-115
Manganese	ug/L (ppb)	20	111	85-115

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

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

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

ca - The calibration results for the analyte were outside of acceptance criteria, 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.

T5/L4/VW4

City, State, ZIP Seattle, WA 98134

Page #	1	of
TURNAROUND TIME		
Standard (2 Weeks)		
Rush charges authorized by:		
SAMPLE DISPOSAL Dispose after 30 days Return samples Will call with instructions		

[illegible]

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <i>[Signature]</i>	<i>Lynna Coleman</i>	SES	6/28/24	0735
Received by: <i>[Signature]</i>	<i>Michael E. Clark</i>	SES	6/28/24	0935
Relinquished by:		Samples received at	1	C
Received by:				

SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT # 406432 CLIENT SOU INITIALS/ AP
DATE: 06/28/24

If custody seals are present on cooler, are they intact? ☒ NA ☐ YES ☐ NO

Cooler/Sample temperature 1 °C
Thermometer ID: Fluke 96312917

Were samples received on ice/cold packs? ☒ YES ☐ NO

How did samples arrive?
☒ Over the Counter ☐ Picked up by F&BI ☐ FedEx/UPS/GSO

Is there a Chain-of-Custody* (COC)? ☒ YES ☐ NO Initials/ AP
*or other representative documents, letters, and/or shipping memos Date: 06/28/24

Number of days samples have been sitting prior to receipt at laboratory 1 days

Are the samples clearly identified? (explain "no" answer below) ☒ YES ☐ NO

Were all sample containers received intact (i.e. not broken, leaking etc.)? (explain "no" answer below) ☒ YES ☐ NO

Were appropriate sample containers used? ☒ YES ☐ NO ☐ Unknown

If custody seals are present on samples, are they intact? ☒ NA ☐ YES ☐ NO

Are samples requiring no headspace, headspace free? ☐ NA ☒ YES ☐ NO

Is the following information provided on the COC, and does it match the sample label?
(explain "no" answer below)

Sample ID's	☒ Yes ☐ No	☐ Not on COC/label
Date Sampled	☒ Yes ☐ No	☐ Not on COC/label
Time Sampled	☒ Yes ☐ No	☐ Not on COC/label
# of Containers	☒ Yes ☐ No	
Relinquished	☒ Yes ☐ No	
Requested analysis	☒ Yes ☐ On Hold	

Other comments (use a separate page if needed)

Air Samples: Were any additional canisters/tubes received? ☒ NA ☐ YES ☐ NO

Number of unused TO15 canisters _____ Number of unused TO17 tubes _____



3600 Fremont Ave N
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Friedman & Bruya
Michael Erdahl
5500 4th Ave S
Seattle, WA 98108

RE: 406432,
Work Order Number: 2406522

July 10, 2024

Attention Michael Erdahl:

Fremont Analytical, Inc, an Alliance Technical Group company, received 9 sample(s) on 6/28/2024 for the analyses presented in the following report.

Dissolved Gases by RSK-175
Ferrous Iron by SM3500-Fe B
Ion Chromatography by EPA 300.0
Total Alkalinity by SM 2320B
Total Organic Carbon by SM 5310C

All analyses were performed according to our accredited Quality Assurance program. Please contact the laboratory if you should have any questions about the results.

Please note, while the appearance of our logo and branding will update, our commitment to accuracy, speed, and customer service remain values celebrated and shared by Alliance Technical Group. Thank you for the opportunity to serve you.

Sincerely,

A handwritten signature in blue ink, appearing to read "Brianna Barnes".

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.4 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910



Original

www.fremontanalytical.com

CLIENT: Friedman & Bruya
Project: 406432
Work Order: 2406522

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2406522-001	MW18-20240627	06/27/2024 9:45 AM	06/28/2024 11:30 AM
2406522-002	MW19-20240627	06/27/2024 9:20 AM	06/28/2024 11:30 AM
2406522-003	MW21-20240627	06/27/2024 1:35 PM	06/28/2024 11:30 AM
2406522-004	MW22-20240627	06/27/2024 12:20 PM	06/28/2024 11:30 AM
2406522-005	MW23-20240627	06/27/2024 12:10 PM	06/28/2024 11:30 AM
2406522-006	MW24-20240627	06/27/2024 10:55 AM	06/28/2024 11:30 AM
2406522-007	MW25-20240627	06/27/2024 10:45 AM	06/28/2024 11:30 AM
2406522-008	IW50-20240627	06/27/2024 2:45 PM	06/28/2024 11:30 AM
2406522-009	IW61-20240627	06/27/2024 1:45 PM	06/28/2024 11:30 AM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Friedman & Bruya
Project: 406432

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Analytical Report

Work Order: 2406522

Date Reported: 7/10/2024

Client: Friedman & Bruya

Collection Date: 6/27/2024 9:45:00 AM

Project: 406432

Lab ID: 2406522-001

Matrix: Water

Client Sample ID: MW18-20240627

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Dissolved Gases by RSK-175

Batch ID: R92919 Analyst: CO

Methane	9.17	0.250	D	mg/L	50	7/8/2024 3:28:00 PM
Ethene	ND	0.0100		mg/L	1	7/8/2024 2:44:00 PM
Ethane	ND	0.0100		mg/L	1	7/8/2024 2:44:00 PM

Ion Chromatography by EPA 300.0

Batch ID: 44387 Analyst: SLL

Nitrate (as N)	ND	2.00	D	mg/L	10	6/29/2024 12:51:00 AM
Sulfate	2.39	1.00		mg/L	1	7/1/2024 1:57:00 PM

Total Organic Carbon by SM 5310C

Batch ID: R92819 Analyst: SLL

Total Organic Carbon	4.16	0.700		mg/L	1	7/3/2024 12:47:00 AM
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Total Alkalinity by SM 2320B

Batch ID: R92942 Analyst: SS

Alkalinity, Total (As CaCO ₃)	565	2.50		mg/L	1	7/9/2024 10:00:00 AM
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Ferrous Iron by SM3500-Fe B

Batch ID: R92727 Analyst: BB

Ferrous Iron	24.3	3.75	DH	mg/L	25	6/28/2024 11:46:00 AM
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Client: Friedman & Bruya

Collection Date: 6/27/2024 9:20:00 AM

Project: 406432

Lab ID: 2406522-002

Matrix: Water

Client Sample ID: MW19-20240627

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Dissolved Gases by RSK-175

Batch ID: R92919 Analyst: CO

Methane	8.26	0.250	D	mg/L	50	7/8/2024 3:30:00 PM
Ethene	ND	0.0100		mg/L	1	7/8/2024 2:48:00 PM
Ethane	ND	0.0100		mg/L	1	7/8/2024 2:48:00 PM

Ion Chromatography by EPA 300.0

Batch ID: 44387 Analyst: SLL

Nitrate (as N)	ND	2.00	D	mg/L	10	6/29/2024 1:14:00 AM
Sulfate	ND	10.0	D	mg/L	10	6/29/2024 1:14:00 AM

Total Alkalinity by SM 2320B

Batch ID: R92942 Analyst: SS

Alkalinity, Total (As CaCO ₃)	380	2.50		mg/L	1	7/9/2024 10:00:00 AM
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Ferrous Iron by SM3500-Fe B

Batch ID: R92727 Analyst: BB

Ferrous Iron	19.9	3.75	DH	mg/L	25	6/28/2024 11:46:00 AM
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Analytical Report

Work Order: 2406522

Date Reported: 7/10/2024

Client: Friedman & Bruya

Collection Date: 6/27/2024 1:35:00 PM

Project: 406432

Lab ID: 2406522-003

Matrix: Water

Client Sample ID: MW21-20240627

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Dissolved Gases by RSK-175

Batch ID: R92919 Analyst: CO

Methane	5.57	0.250	D	mg/L	50	7/8/2024 3:33:00 PM
Ethene	ND	0.0100		mg/L	1	7/8/2024 2:58:00 PM
Ethane	ND	0.0100		mg/L	1	7/8/2024 2:58:00 PM

Total Organic Carbon by SM 5310C

Batch ID: R92819 Analyst: SLL

Total Organic Carbon	21.8	0.700		mg/L	1	7/3/2024 1:19:00 AM
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Analytical Report

Work Order: 2406522

Date Reported: 7/10/2024

Client: Friedman & Bruya

Collection Date: 6/27/2024 12:20:00 PM

Project: 406432

Lab ID: 2406522-004

Matrix: Water

Client Sample ID: MW22-20240627

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Dissolved Gases by RSK-175

Batch ID: R92919 Analyst: CO

Methane	4.53	0.250	D	mg/L	50	7/8/2024 3:35:00 PM
Ethene	ND	0.0100		mg/L	1	7/8/2024 3:00:00 PM
Ethane	ND	0.0100		mg/L	1	7/8/2024 3:00:00 PM

Ion Chromatography by EPA 300.0

Batch ID: 44387 Analyst: SLL

Nitrate (as N)	ND	2.00	D	mg/L	10	6/29/2024 2:24:00 AM
Sulfate	ND	10.0	D	mg/L	10	6/29/2024 2:24:00 AM

Total Organic Carbon by SM 5310C

Batch ID: R92819 Analyst: SLL

Total Organic Carbon	81.2	0.700		mg/L	1	7/3/2024 1:39:00 AM
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Total Alkalinity by SM 2320B

Batch ID: R92942 Analyst: SS

Alkalinity, Total (As CaCO ₃)	399	2.50		mg/L	1	7/9/2024 10:00:00 AM
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Ferrous Iron by SM3500-Fe B

Batch ID: R92727 Analyst: BB

Ferrous Iron	15.4	3.75	D	mg/L	25	6/28/2024 11:46:00 AM
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Analytical Report

Work Order: 2406522

Date Reported: 7/10/2024

Client: Friedman & Bruya

Collection Date: 6/27/2024 12:10:00 PM

Project: 406432

Lab ID: 2406522-005

Matrix: Water

Client Sample ID: MW23-20240627

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Dissolved Gases by RSK-175

Batch ID: R92919 Analyst: CO

Methane	10.1	0.250	D	mg/L	50	7/8/2024 3:38:00 PM
Ethene	ND	0.0100		mg/L	1	7/8/2024 3:03:00 PM
Ethane	ND	0.0100		mg/L	1	7/8/2024 3:03:00 PM

Ion Chromatography by EPA 300.0

Batch ID: 44387 Analyst: SLL

Nitrate (as N)	ND	2.00	D	mg/L	10	6/29/2024 2:47:00 AM
Sulfate	1.33	1.00		mg/L	1	7/1/2024 2:20:00 PM

Total Organic Carbon by SM 5310C

Batch ID: R92819 Analyst: SLL

Total Organic Carbon	2.98	0.700		mg/L	1	7/3/2024 2:03:00 AM
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Total Alkalinity by SM 2320B

Batch ID: R92942 Analyst: SS

Alkalinity, Total (As CaCO ₃)	440	2.50		mg/L	1	7/9/2024 10:00:00 AM
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Ferrous Iron by SM3500-Fe B

Batch ID: R92727 Analyst: BB

Ferrous Iron	5.35	3.75	D	mg/L	25	6/28/2024 11:46:00 AM
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Analytical Report

Work Order: 2406522

Date Reported: 7/10/2024

Client: Friedman & Bruya

Collection Date: 6/27/2024 10:55:00 AM

Project: 406432

Lab ID: 2406522-006

Matrix: Water

Client Sample ID: MW24-20240627

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Dissolved Gases by RSK-175

Batch ID: R92919 Analyst: CO

Methane	9.81	0.250	D	mg/L	50	7/8/2024 3:40:00 PM
Ethene	ND	0.0100		mg/L	1	7/8/2024 3:05:00 PM
Ethane	ND	0.0100		mg/L	1	7/8/2024 3:05:00 PM

Ion Chromatography by EPA 300.0

Batch ID: 44387 Analyst: SLL

Nitrate (as N)	ND	2.00	D	mg/L	10	6/29/2024 3:57:00 AM
Sulfate	2.96	1.00		mg/L	1	7/1/2024 2:43:00 PM

Total Organic Carbon by SM 5310C

Batch ID: R92819 Analyst: SLL

Total Organic Carbon	3.13	0.700		mg/L	1	7/3/2024 2:36:00 AM
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Total Alkalinity by SM 2320B

Batch ID: R92942 Analyst: SS

Alkalinity, Total (As CaCO ₃)	501	2.50		mg/L	1	7/9/2024 10:00:00 AM
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Ferrous Iron by SM3500-Fe B

Batch ID: R92727 Analyst: BB

Ferrous Iron	11.7	3.75	DH	mg/L	25	6/28/2024 11:46:00 AM
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Analytical Report

Work Order: 2406522

Date Reported: 7/10/2024

Client: Friedman & Bruya

Collection Date: 6/27/2024 10:45:00 AM

Project: 406432

Lab ID: 2406522-007

Matrix: Water

Client Sample ID: MW25-20240627

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Dissolved Gases by RSK-175

Batch ID: R92919 Analyst: CO

Methane	10.6	0.250	D	mg/L	50	7/8/2024 3:45:00 PM
Ethene	ND	0.0100		mg/L	1	7/8/2024 3:08:00 PM
Ethane	ND	0.0100		mg/L	1	7/8/2024 3:08:00 PM

Ion Chromatography by EPA 300.0

Batch ID: 44387 Analyst: SLL

Nitrate (as N)	ND	2.00	D	mg/L	10	6/29/2024 4:20:00 AM
Sulfate	35.6	10.0	D	mg/L	10	6/29/2024 4:20:00 AM

Total Organic Carbon by SM 5310C

Batch ID: R92819 Analyst: SLL

Total Organic Carbon	1.42	0.700		mg/L	1	7/3/2024 2:57:00 AM
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Total Alkalinity by SM 2320B

Batch ID: R92942 Analyst: SS

Alkalinity, Total (As CaCO ₃)	210	2.50		mg/L	1	7/9/2024 10:00:00 AM
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Ferrous Iron by SM3500-Fe B

Batch ID: R92727 Analyst: BB

Ferrous Iron	5.96	3.75	DH	mg/L	25	6/28/2024 11:46:00 AM
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Analytical Report

Work Order: **2406522**
Date Reported: **7/10/2024**

Client: Friedman & Bruya

Collection Date: 6/27/2024 2:45:00 PM

Project: 406432

Lab ID: 2406522-008

Matrix: Water

Client Sample ID: IW50-20240627

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Dissolved Gases by RSK-175

Batch ID: R92919 Analyst: CO

Methane	7.65	0.250	D	mg/L	50	7/8/2024 3:47:00 PM
Ethene	ND	0.0100		mg/L	1	7/8/2024 3:11:00 PM
Ethane	ND	0.0100		mg/L	1	7/8/2024 3:11:00 PM

Ion Chromatography by EPA 300.0

Batch ID: 44387 Analyst: SLL

Nitrate (as N)	ND	2.00	D	mg/L	10	6/29/2024 4:43:00 AM
Sulfate	16.4	10.0	D	mg/L	10	6/29/2024 4:43:00 AM

Total Organic Carbon by SM 5310C

Batch ID: R92819 Analyst: SLL

Total Organic Carbon	3.72	0.700		mg/L	1	7/3/2024 3:31:00 AM
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Total Alkalinity by SM 2320B

Batch ID: R92942 Analyst: SS

Alkalinity, Total (As CaCO ₃)	367	2.50		mg/L	1	7/9/2024 10:00:00 AM
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Ferrous Iron by SM3500-Fe B

Batch ID: R92727 Analyst: BB

Ferrous Iron	6.16	3.75	D	mg/L	25	6/28/2024 11:46:00 AM
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Analytical Report

Work Order: 2406522

Date Reported: 7/10/2024

Client: Friedman & Bruya

Collection Date: 6/27/2024 1:45:00 PM

Project: 406432

Lab ID: 2406522-009

Matrix: Water

Client Sample ID: IW61-20240627

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Dissolved Gases by RSK-175

Batch ID: R92919 Analyst: CO

Methane	9.22	0.250	D	mg/L	50	7/8/2024 3:50:00 PM
Ethene	ND	0.0100		mg/L	1	7/8/2024 3:13:00 PM
Ethane	ND	0.0100		mg/L	1	7/8/2024 3:13:00 PM

Ion Chromatography by EPA 300.0

Batch ID: 44387 Analyst: SLL

Nitrate (as N)	ND	2.00	D	mg/L	10	6/29/2024 5:06:00 AM
Sulfate	ND	10.0	D	mg/L	10	6/29/2024 5:06:00 AM

Total Organic Carbon by SM 5310C

Batch ID: R92819 Analyst: SLL

Total Organic Carbon	66.0	0.700		mg/L	1	7/3/2024 4:02:00 AM
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Total Alkalinity by SM 2320B

Batch ID: R92942 Analyst: SS

Alkalinity, Total (As CaCO ₃)	571	2.50		mg/L	1	7/9/2024 10:00:00 AM
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Ferrous Iron by SM3500-Fe B

Batch ID: R92727 Analyst: BB

Ferrous Iron	11.7	3.75	D	mg/L	25	6/28/2024 11:46:00 AM
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Work Order: 2406522
CLIENT: Friedman & Bruya
Project: 406432

QC SUMMARY REPORT

Total Alkalinity by SM 2320B

Sample ID: MB-R92942		SampType: MBLK			Units: mg/L		Prep Date: 7/9/2024			RunNo: 92942		
Client ID: MBLKW		Batch ID: R92942			Analysis Date: 7/9/2024					SeqNo: 1940063		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Alkalinity, Total (As CaCO3)	ND	2.50									
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Sample ID: LCS-R92942		SampType: LCS			Units: mg/L		Prep Date: 7/9/2024			RunNo: 92942		
Client ID: LCSW		Batch ID: R92942			Analysis Date: 7/9/2024			SeqNo: 1940064				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Alkalinity, Total (As CaCO3)	108	2.50	100.0	0	108	84.5	124.5				
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Sample ID: 2407048-012BDUP		SampType: DUP		Units: mg/L		Prep Date: 7/9/2024			RunNo: 92942		
Client ID: BATCH		Batch ID: R92942		Analysis Date: 7/9/2024			SeqNo: 1940066				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Alkalinity, Total (As CaCO3)	189	2.50						190.3	0.848	20	
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Sample ID: 2406522-006BDUP		SampType: DUP		Units: mg/L		Prep Date: 7/9/2024		RunNo: 92942			
Client ID: MW24-20240627		Batch ID: R92942				Analysis Date: 7/9/2024		SeqNo: 1940076			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Alkalinity, Total (As CaCO3)	496	2.50						500.6	0.854	20	
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Work Order: 2406522
CLIENT: Friedman & Bruya
Project: 406432

QC SUMMARY REPORT

Ferrous Iron by SM3500-Fe B

Sample ID: MB-R92727		SampType: MBLK			Units: mg/L		Prep Date: 6/28/2024			RunNo: 92727		
Client ID: MBLKW		Batch ID: R92727						Analysis Date: 6/28/2024			SeqNo: 1935393	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Ferrous Iron	ND	0.150										

Sample ID: LCS-R92727		SampType: LCS			Units: mg/L		Prep Date: 6/28/2024			RunNo: 92727		
Client ID: LCSW		Batch ID: R92727						Analysis Date: 6/28/2024			SeqNo: 1935394	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Ferrous Iron	0.410	0.150	0.4000	0	103	85	115					

Sample ID: 2406522-001CDUP		SampType: DUP			Units: mg/L		Prep Date: 6/28/2024			RunNo: 92727		
Client ID: MW18-20240627		Batch ID: R92727						Analysis Date: 6/28/2024			SeqNo: 1935396	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Ferrous Iron	25.9	3.75						24.28	6.42	20	DH	

Sample ID: 2406522-001CMS		SampType: MS			Units: mg/L		Prep Date: 6/28/2024			RunNo: 92727		
Client ID: MW18-20240627		Batch ID: R92727						Analysis Date: 6/28/2024			SeqNo: 1935397	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Ferrous Iron	34.3	3.75	10.00	24.28	100	70	130				DH	

Sample ID: 2406522-001CMSD		SampType: MSD			Units: mg/L		Prep Date: 6/28/2024			RunNo: 92727		
Client ID: MW18-20240627		Batch ID: R92727						Analysis Date: 6/28/2024			SeqNo: 1935398	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Ferrous Iron	34.8	3.75	10.00	24.28	105	70	130	34.28	1.55	30	DH	

Work Order: 2406522
CLIENT: Friedman & Bruya
Project: 406432

QC SUMMARY REPORT

Ion Chromatography by EPA 300.0

Sample ID: MB-44387		SampType: MBLK			Units: mg/L		Prep Date: 6/28/2024			RunNo: 92780		
Client ID: MBLKW		Batch ID: 44387			Analysis Date: 6/28/2024					SeqNo: 1936247		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Nitrate (as N)	ND	0.200									
Sulfate	ND	1.00									

Sample ID: LCS-44387		SampType: LCS			Units: mg/L		Prep Date: 6/28/2024			RunNo: 92780		
Client ID: LCSW		Batch ID: 44387			Analysis Date: 6/28/2024			SeqNo: 1936248				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Nitrate (as N)	0.722	0.200	0.7500	0	96.3	90	110				
Sulfate	3.60	1.00	3.750	0	95.9	90	110				

Sample ID: 2406520-001ADUP		SampType: DUP			Units: mg/L		Prep Date: 6/28/2024			RunNo: 92780		
Client ID: BATCH		Batch ID: 44387			Analysis Date: 6/28/2024			SeqNo: 1936250				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Nitrate (as N)	2.72	0.200						2.720	0	20	
Sulfate	9.78	1.00						9.751	0.307	20	

Sample ID: 2406520-001AMS		SampType: MS			Units: mg/L		Prep Date: 6/28/2024			RunNo: 92780		
Client ID: BATCH		Batch ID: 44387			Analysis Date: 6/28/2024			SeqNo: 1936251				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Nitrate (as N)	3.50	0.200	0.7500	2.720	103	80	120				
Sulfate	13.7	1.00	3.750	9.751	106	80	120				

Sample ID: 2406520-001AMSD		SampType: MSD			Units: mg/L		Prep Date: 6/28/2024			RunNo: 92780		
Client ID: BATCH		Batch ID: 44387			Analysis Date: 6/28/2024			SeqNo: 1936252				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Nitrate (as N)	3.49	0.200	0.7500	2.720	102	80	120	3.496	0.229	20	
Sulfate	13.7	1.00	3.750	9.751	105	80	120	13.73	0.255	20	

Work Order: 2406522
CLIENT: Friedman & Bruya
Project: 406432

QC SUMMARY REPORT

Ion Chromatography by EPA 300.0

Sample ID: 2406520-001AMSD		SampType: MSD			Units: mg/L		Prep Date: 6/28/2024			RunNo: 92780		
Client ID: BATCH		Batch ID: 44387			Analysis Date: 6/28/2024					SeqNo: 1936252		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Sample ID: 2406522-005BDUP		SampType: DUP			Units: mg/L		Prep Date: 6/28/2024			RunNo: 92780		
Client ID: MW23-20240627		Batch ID: 44387			Analysis Date: 6/29/2024			SeqNo: 1936262				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Nitrate (as N)	ND	2.00						0		20	D	
Sulfate	ND	10.0						0		20	D	

Sample ID: 2406522-005BMS		SampType: MS		Units: mg/L		Prep Date: 6/28/2024			RunNo: 92780		
Client ID: MW23-20240627		Batch ID: 44387					Analysis Date: 6/29/2024			SeqNo: 1936263	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	7.04	2.00	7.500	0	93.9	80	120				D
Sulfate	37.8	10.0	37.50	0	101	80	120				D

Work Order: 2406522
CLIENT: Friedman & Bruya
Project: 406432

QC SUMMARY REPORT

Total Organic Carbon by SM 5310C

Sample ID: MB-92819	SampType: MBLK	Units: mg/L				Prep Date: 7/2/2024			RunNo: 92819		
Client ID: MBLKW	Batch ID: R92819					Analysis Date: 7/2/2024			SeqNo: 1937335		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	ND	0.700									

Sample ID: LCS-92819	SampType: LCS	Units: mg/L				Prep Date: 7/2/2024			RunNo: 92819		
Client ID: LCSW	Batch ID: R92819					Analysis Date: 7/2/2024			SeqNo: 1937336		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	4.88	0.700	5.000	0	97.6	87.6	109				

Sample ID: 2406520-001BDUP	SampType: DUP	Units: mg/L				Prep Date: 7/2/2024			RunNo: 92819		
Client ID: BATCH	Batch ID: R92819					Analysis Date: 7/2/2024			SeqNo: 1937338		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	1.53	0.700						1.461	4.81	20	

Sample ID: 2406520-001BMS	SampType: MS	Units: mg/L				Prep Date: 7/2/2024			RunNo: 92819		
Client ID: BATCH	Batch ID: R92819					Analysis Date: 7/2/2024			SeqNo: 1937339		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	6.57	0.700	5.000	1.461	102	76.5	111				

Sample ID: 2406520-001BMSD	SampType: MSD	Units: mg/L				Prep Date: 7/2/2024			RunNo: 92819		
Client ID: BATCH	Batch ID: R92819					Analysis Date: 7/2/2024			SeqNo: 1937340		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	6.28	0.700	5.000	1.461	96.3	76.5	111	6.569	4.56	30	

Work Order: 2406522
CLIENT: Friedman & Bruya
Project: 406432

QC SUMMARY REPORT
Total Organic Carbon by SM 5310C

Sample ID: 2407041-001DDUP		SampType: DUP			Units: mg/L		Prep Date: 7/3/2024			RunNo: 92819		
Client ID: BATCH		Batch ID: R92819			Analysis Date: 7/3/2024				SeqNo: 1937358			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Total Organic Carbon	13.7	0.700						13.66	0.285	20		

Sample ID: 2407041-001DMS		SampType: MS			Units: mg/L		Prep Date: 7/3/2024		RunNo: 92819		
Client ID: BATCH		Batch ID: R92819			Analysis Date: 7/3/2024				SeqNo: 1937359		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	18.3	0.700	5.000	13.66	92.2	76.5	111				

Work Order: 2406522
CLIENT: Friedman & Bruya
Project: 406432

QC SUMMARY REPORT

Dissolved Gases by RSK-175

Sample ID: LCS-R92919		SampType: LCS			Units: ppmv		Prep Date: 7/8/2024			RunNo: 92919		
Client ID: LCSW		Batch ID: R92919			Analysis Date: 7/8/2024					SeqNo: 1939559		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Methane	1,080	0.00500	1,000	0	108	73.6	124				
Ethene	983	0.0100	1,000	0	98.3	76.3	122				
Ethane	1,010	0.0100	1,000	0	101	76.1	123				

Sample ID: MB-R92919		SampType: MBLK			Units: mg/L		Prep Date: 7/8/2024			RunNo: 92919		
Client ID: MBLKW		Batch ID: R92919			Analysis Date: 7/8/2024			SeqNo: 1939558				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Methane	ND	0.00500									
Ethene	ND	0.0100									
Ethane	ND	0.0100									

Sample ID: 2406520-004CREP		SampType: REP			Units: mg/L		Prep Date: 7/8/2024			RunNo: 92919		
Client ID: BATCH		Batch ID: R92919			Analysis Date: 7/8/2024					SeqNo: 1939531		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Methane	ND	0.00500						0		30	
Ethene	ND	0.0100						0		30	
Ethane	ND	0.0100						0		30	

Client Name: FB

Work Order Number: 2406522

Logged by: Morgan Wilson

Date Received: 6/28/2024 11:30:00 AM

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒
4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all items received at a temperature of >2°C to 6°C * Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. Is there headspace in the VOA vials? Yes ☐ No ☐ NA ☒
11. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
12. Does paperwork match bottle labels? Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all hold times (except field parameters, pH e.g.) able to be met? Yes ☐ No ☒

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☒ No ☐ NA ☐

Person Notified:	Michael Erdahl	Date:	6/28/2024
By Whom:	Morgan Wilson	Via:	☒ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:	Ferrous Iron Hold Time		
Client Instructions:			

17. Additional remarks:

Item Information

Item #	Temp °C
Sample	0.3

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

SUBCONTRACT SAMPLE CHAIN OF CUSTODY

2406522

Page # 1 of 1

SUBCONTRACTOR
Alliance Technical Group

Send Report To Michael Erdahl

PROJECT NAME/NO.
406432

Company Friedman and Bruya, Inc.

PO #
E-272

Address 5500 4th Ave S

REMARKS

City, State, ZIP Seattle, WA 98108

Phone # (206) 285-8282 merdahl@friedmanandbruya.com

TURNAROUND TIME	☒ Standard TAT
Rush charges authorized by:	
SAMPLE DISPOSAL	
Dispose after 30 days	
Return samples	
Will call with instructions	

Sample ID	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED						Notes
						RSK 175	Sulfate	Nitrate	Alkalinity	ferrous iron	TOC	
MW18-20240627		6/27/2024	945	water		X	X	X	X	X	X	
MW19-20240627		6/27/2024	920	water		X	X	X	X	X		
MW21-20240627		6/27/2024	1335	water		X					X	
MW22-20240627		6/27/2024	1220	water		X	X	X	X	X	X	
MW23-20240627		6/27/2024	1210	water		X	X	X	X	X	X	
MW24-20240627		6/27/2024	1055	water		X	X	X	X	X	X	
MW25-20240627		6/27/2024	1045	water		X	X	X	X	X	X	
IW50-20240627		6/27/2024	1445	water		X	X	X	X	X	X	
IW61-20240627		6/27/2024	1345	water		X	X	X	X	X	X	

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Pl. (206) 285-8282

Fax (206) 283-5044

SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
Relinquished by:		Michael Erdahl		Friedman & Bruya		6/28/24	0945
Received by:		Nathan Keller		ATG		6/18/24	1130
Relinquished by:							
Received by:							

Analytical Results

SiREM File Reference: S-10534

Client: SoundEarth Strategies
Client Project Number: 0731-004
Date Samples Received: July 2, 2024
Date Samples Analyzed: July 8, 2024

Client Sample ID	SiREM Reference ID	Client Sample Date	Sample Dilution Factor	Lactate	Acetate	Propionate	Formate	Butyrate	Pruvate
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW18-20240627	24-18393	27-Jun-24	50x	<0.50	<0.30	<0.26	<0.25	<0.06	<0.75
MW21-20240627	24-18394	27-Jun-24	50x	<0.50	117	5.8	<0.25	6.7	<0.75
MW22-20240627	24-18395	27-Jun-24	50x	<0.50	153	9.9	1.2 J	8.9	<0.75
MW23-20240627	24-18396	27-Jun-24	50x	<0.50	<0.30	<0.26	1.0 J	<0.06	<0.75
MW24-20240627	24-18397	27-Jun-24	50x	<0.50	1.5 J	<0.26	0.99 J	<0.06	<0.75
MW25-20240627	24-18398	27-Jun-24	50x	<0.50	<0.30	<0.26	0.98 J	<0.06	<0.75
IW04-20240626	24-18399	26-Jun-24	50x	<0.50	<0.30	<0.26	<0.25	<0.06	<0.75
IW50-20240627	24-18400	27-Jun-24	50x	<0.50	<0.30	<0.26	<0.25	<0.06	<0.75
IW61-20240627	24-18401	27-Jun-24	50x	<0.50	3.9	<0.26	<0.25	<0.06	<0.75
QL				50	0.50	0.30	0.26	0.25	0.06
RL				50	2.0	2.0	2.0	2.0	2.0

Comments:

Method: Ion Chromatography with Electrical Conductivity Detection
J = the associated value is an estimated result between the QL and the RL
QL = Quantitation Limit
RL = Reporting Limit
mg/L = milligram per liter
< = compound analyzed for but not detected, associated value is QL. Sample QL is corrected for dilution.

Analyst:

Brooke Rapien

Brooke Rapien, B.Sc.
Laboratory Technician II

Results approved:

Kela Ashworth

Kela Ashworth, B.Sc.
Scientist

Date:

July 16, 2024



Chain-of-Custody Form

siremlab.com

180A Market Place Blvd.
Knoxville, TN 37922
(865) 330-0037

Lab #
S10534

Project Name Troy Laundry Property		Project # 0731-004		Analysis																			
Project Manager Linnea Coleman				Preservative																			
Email lcoleman@soundearthinc.com				Preservative Key 0. None 1. HCL 2. Other 3. Other 4. Other 5. Other 6. Other																			
Company SoundEarth Strategies																							
Address 1011 Southwest Klickitat Way, Suite 212																							
Seattle, Washington 98134																							
Phone # 206-306-1900																							
Sampler's Signature 		Sampler's Printed Name Linnea Coleman		Volatile Fatty Acids																			
Client Sample ID		Lab ID		Sampling		Matrix		# of Containers		Other Information													
				Date		Time																	
MW18-20240627				6/27/24		8945		H ₂ O		2		X											
MW21-20240627				↓		1335		↓		↓		X											
MW22-20240627				↓		1220		↓		↓		X											
MW23-20240627				↓		1210		↓		↓		X											
MW24-20240627				↓		1055		↓		↓		X											
MW25-20240627				↓		1045		↓		↓		X											
IW04-20240626				6/26/24		1520		↓		↓		X											
IW50-20240627				6/27/24		1445		↓		↓		X											
IW61-20240627				↓		1345		↓		↓		X											
LGC		7/1/24																					
Cooler Condition: intact		Sample Receipt		P.O. # 0731-004								Invoice Information											
Cooler Temperature: 3.6°C (KX00238)				Bill To: Sound Earth								For Lab Use Only											
Custody Seals: Yes ☒ No ☐																							
Relinquished By: Signature 		Received By: Signature 		Relinquished By: Signature		Received By: Signature		Relinquished By: Signature		Received By: Signature		Relinquished By: Signature		Received By: Signature									
Printed Name Linnea Coleman		Printed Name Kayland Crachola		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name									
Firm Sound Earth		Firm SiREM		Firm		Firm		Firm		Firm		Firm		Firm									
Date/Time 7/1/24 1200		Date/Time 7-2-24 1104		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time									

Distribution: White - Return to Originator: Yellow - Lab Copy: Pink - Retained by Client

In the absence of an executed agreement, submission of samples to SiREM implies consent for performance of analyses specified on this Chain-of-Custody form and agreement with the terms and conditions of the SiREM Laboratory Services Agreement. The entity submitting samples shall be responsible for payment in full for said analyses.



Chain-of-Custody Form

siremlab.com

COPY

180A Market Place Blvd.
Knoxville, TN 37922
(865) 330-0037

Lab #
S-10534

Project Name Troy Laundry Property		Project # 0731-004		Preservative												Analysis																			
Project Manager Linnea Coleman				0 Volatile Fatty Acids												Preservative Key 0. None 1. HCL 2. Other 3. Other 4. Other 5. Other 6. Other																			
Email lcoleman@soundearthinc.com																																			
Company SoundEarth Strategies																																			
Address 1011 Southwest Klickitat Way, Suite 212																																			
Seattle, Washington 98134																																			
Phone # 206-306-1900																																			
Sampler's Signature 		Sampler's Printed Name Linnea Coleman																																	
Client Sample ID		Lab ID		Sampling		Matrix		# of Containers														Other Information													
				Date		Time																													
MW18-20240627				6/27/24		8945		H2O		21		X												✓											
MW21-20240627				↓		1335		↓		X												✓													
MW22-20240627				↓		1220		↓		X												✓													
MW23-20240627				↓		1210		↓		X												✓													
MW24-20240627				↓		1055		↓		X												✓													
MW25-20240627				↓		1045		↓		X												✓													
IW04-20240626				6/26/24		1520		↓		X												✓													
IW50-20240627				6/27/24		1445		↓		X												✓													
IW61-20240627				↓		1345		↓		X												✓													

Cooler Condition: Sample Receipt intact		P.O. # 0731-004		Invoice Information		For Lab Use Only											
Cooler Temperature: 3.6°C (KX00238)		Bill To: Sound Earth															
Custody Seals: Yes ☒ No ☐																	

Relinquished By:		Received By:		Relinquished By:		Received By:		Relinquished By:		Received By:	
Signature		Signature		Signature		Signature		Signature		Signature	
Printed Name Linnea Coleman		Printed Name K. Cracchiora		Printed Name K. Cracchiora		Printed Name Anthony Carson		Printed Name		Printed Name	
Firm Sound Earth		Firm SiREM		Firm SiREM		Firm SiREM		Firm		Firm	
Date/Time 7/1/24 1200		Date/Time 7-2-24 1104		Date/Time 7-3-24 1400		Date/Time 7-5-24 1035		Date/Time		Date/Time	

Distribution: White - Return to Originator: Yellow - Lab Copy: Pink - Retained by Client

In the absence of an executed agreement, submission of samples to SiREM implies consent for performance of analyses specified on this Chain-of-Custody form and agreement with the terms and conditions of the SiREM Laboratory Services Agreement. The entity submitting samples shall be responsible for payment in full for said analyses.

Fourth Quarter 2024

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 Ave South
Seattle, WA 98108-2419
(206) 285-8282
office@friedmanandbruya.com
www.friedmanandbruya.com

January 2, 2025

Linnea Coleman, Project Manager
SoundEarth Strategies
1011 SW Klickitat Way, Suite 104
Seattle, WA 98134

Dear Ms Coleman:

Included are the results from the testing of material submitted on December 17, 2024 from the SOU_0731-004-08_20241217, F&BI 412321 project. There are 15 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Tom Cammarata
SOU0102R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on December 17, 2024 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0731-004-08_20241217, F&BI 412321 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
412321 -01	MW27-20241217
412321 -02	MW28-20241216
412321 -03	MW29R-20241217
412321 -04	MW35-20241217

Sample MW28-20241216 was sent to Alliance Technical Group for RSK major gases, sulfate, nitrate, alkalinity, and ferrous iron testing. The report is enclosed.

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/02/25

Date Received: 12/17/24

Project: SOU_0731-004-08_20241217, F&BI 412321

Date Extracted: 12/18/24

Date Analyzed: 12/19/24

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

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	Surrogate <u>(% Recovery)</u> (Limit 50-150)
MW28-20241216 412321-02	<100	96
Method Blank 04-3031 MB	<100	97

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/02/25

Date Received: 12/17/24

Project: SOU_0731-004-08_20241217, F&BI 412321

Date Extracted: 12/18/24

Date Analyzed: 12/18/24

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

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150)
MW28-20241216 412321-02	1,000 x	4,300	134
Method Blank 04-3130 MB	<50	<250	134

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW27-20241217	Client:	SoundEarth Strategies
Date Received:	12/17/24	Project:	SOU_0731-004-08_20241217, F&BI 412321
Date Extracted:	12/20/24	Lab ID:	412321-01
Date Analyzed:	12/20/24	Data File:	122035.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	78	126
Toluene-d8	96	84	115
4-Bromofluorobenzene	97	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	1.4
Trichloroethene	12
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW28-20241216	Client:	SoundEarth Strategies
Date Received:	12/17/24	Project:	SOU_0731-004-08_20241217, F&BI 412321
Date Extracted:	12/20/24	Lab ID:	412321-02
Date Analyzed:	12/20/24	Data File:	122034.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	105	78	126
Toluene-d8	96	84	115
4-Bromofluorobenzene	102	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	16
Trichloroethene	0.89
Tetrachloroethene	1.3

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW29R-20241217	Client:	SoundEarth Strategies
Date Received:	12/17/24	Project:	SOU_0731-004-08_20241217, F&BI 412321
Date Extracted:	12/20/24	Lab ID:	412321-03
Date Analyzed:	12/20/24	Data File:	122033.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	107	78	126
Toluene-d8	98	84	115
4-Bromofluorobenzene	97	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	5.0
Trichloroethene	4.0
Tetrachloroethene	8.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW35-20241217	Client:	SoundEarth Strategies
Date Received:	12/17/24	Project:	SOU_0731-004-08_20241217, F&BI 412321
Date Extracted:	12/20/24	Lab ID:	412321-04
Date Analyzed:	12/20/24	Data File:	122032.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	96	78	126
Toluene-d8	104	84	115
4-Bromofluorobenzene	102	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	<0.5
Tetrachloroethene	1.8

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0731-004-08_20241217, F&BI 412321
Date Extracted:	12/20/24	Lab ID:	04-3142 mb
Date Analyzed:	12/20/24	Data File:	122009.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	78	126
Toluene-d8	100	84	115
4-Bromofluorobenzene	97	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	<0.5
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW28-20241216	Client:	SoundEarth Strategies
Date Received:	12/17/24	Project:	SOU_0731-004-08_20241217, F&BI 412321
Date Extracted:	12/24/24	Lab ID:	412321-02 x200
Date Analyzed:	12/26/24	Data File:	412321-02 x200.069
Matrix:	Water	Instrument:	ICPMS3
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Iron	29,000
Manganese	1,200

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	NA	Project:	SOU_0731-004-08_20241217, F&BI 412321
Date Extracted:	12/24/24	Lab ID:	I4-1126 mb
Date Analyzed:	12/24/24	Data File:	I4-1126 mb.043
Matrix:	Water	Instrument:	ICPMS3
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Iron	<50
Manganese	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/02/25

Date Received: 12/17/24

Project: SOU_0731-004-08_20241217, F&BI 412321

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

Laboratory Code: 412226-01 (Duplicate)

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	ug/L (ppb)	1,000	89	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/02/25

Date Received: 12/17/24

Project: SOU_0731-004-08_20241217, F&BI 412321

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	96	92	65-151	4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/02/25

Date Received: 12/17/24

Project: SOU_0731-004-08_20241217, F&BI 412321

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

Laboratory Code: 412362-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent	Acceptance Criteria
				Recovery MS	
Vinyl chloride	ug/L (ppb)	10	<0.02	123	50-150
trans-1,2-Dichloroethene	ug/L (ppb)	10	<1	111	50-150
cis-1,2-Dichloroethene	ug/L (ppb)	10	<1	112	10-211
Trichloroethene	ug/L (ppb)	10	<0.5	100	35-149
Tetrachloroethene	ug/L (ppb)	10	<1	108	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	Percent	Acceptance Criteria	RPD (Limit 20)
			Recovery LCS	Recovery LCSD		
Vinyl chloride	ug/L (ppb)	10	124	125	64-142	1
trans-1,2-Dichloroethene	ug/L (ppb)	10	109	111	70-130	2
cis-1,2-Dichloroethene	ug/L (ppb)	10	108	110	70-130	2
Trichloroethene	ug/L (ppb)	10	98	98	70-130	0
Tetrachloroethene	ug/L (ppb)	10	104	103	70-130	1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/02/25

Date Received: 12/17/24

Project: SOU_0731-004-08_20241217, F&BI 412321

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR TOTAL METALS USING EPA METHOD 200.8**

Laboratory Code: 412428-23 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Iron	ug/L (ppb)	100	14,100	0 b	0 b	70-130	nm
Manganese	ug/L (ppb)	10	589	0 b	0 b	70-130	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Iron	ug/L (ppb)	100	105	85-115
Manganese	ug/L (ppb)	10	103	85-115

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

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

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

ca - The calibration results for the analyte were outside of acceptance criteria, 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 between the method detection limit and the lowest calibration point. 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.

7

SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT # H2321 CLIENT Sand Earth INITIALS/DATE: ME/17

If custody seals are present on cooler, are they intact? ☒ NA ☐ YES ☐ NO

Cooler/Sample temperature 2 °C
Thermometer ID: Fluke 96312917

Were samples received on ice/cold packs? ☒ YES ☐ NO

How did samples arrive?
☒ Over the Counter ☐ Picked up by F&BI ☐ FedEx/UPS/GSO

Is there a Chain-of-Custody* (COC)? ☒ YES ☐ NO Initials/Date: _____
*or other representative documents, letters, and/or shipping memos

Number of days samples have been sitting prior to receipt at laboratory 0-1 days

Are the samples clearly identified? (explain "no" answer below) ☒ YES ☐ NO

Were all sample containers received intact (i.e. not broken, leaking etc.)? (explain "no" answer below) ☒ YES ☐ NO

Were appropriate sample containers used? ☒ YES ☐ NO ☐ Unknown

If custody seals are present on samples, are they intact? ☒ NA ☐ YES ☐ NO

Are samples requiring no headspace, headspace free? ☒ NA ☐ YES ☐ NO

Is the following information provided on the COC, and does it match the sample label? (explain "no" answer below)

Sample ID's	☐ Yes ☐ No	_____	☐ Not on COC/label
Date Sampled	☐ Yes ☐ No	_____	☐ Not on COC/label
Time Sampled	☐ Yes ☐ No	_____	☐ Not on COC/label
# of Containers	☐ Yes ☒ No	<u>Added 12/17</u>	
Relinquished	☐ Yes ☐ No	_____	
Requested analysis	☐ Yes ☐ On Hold	_____	

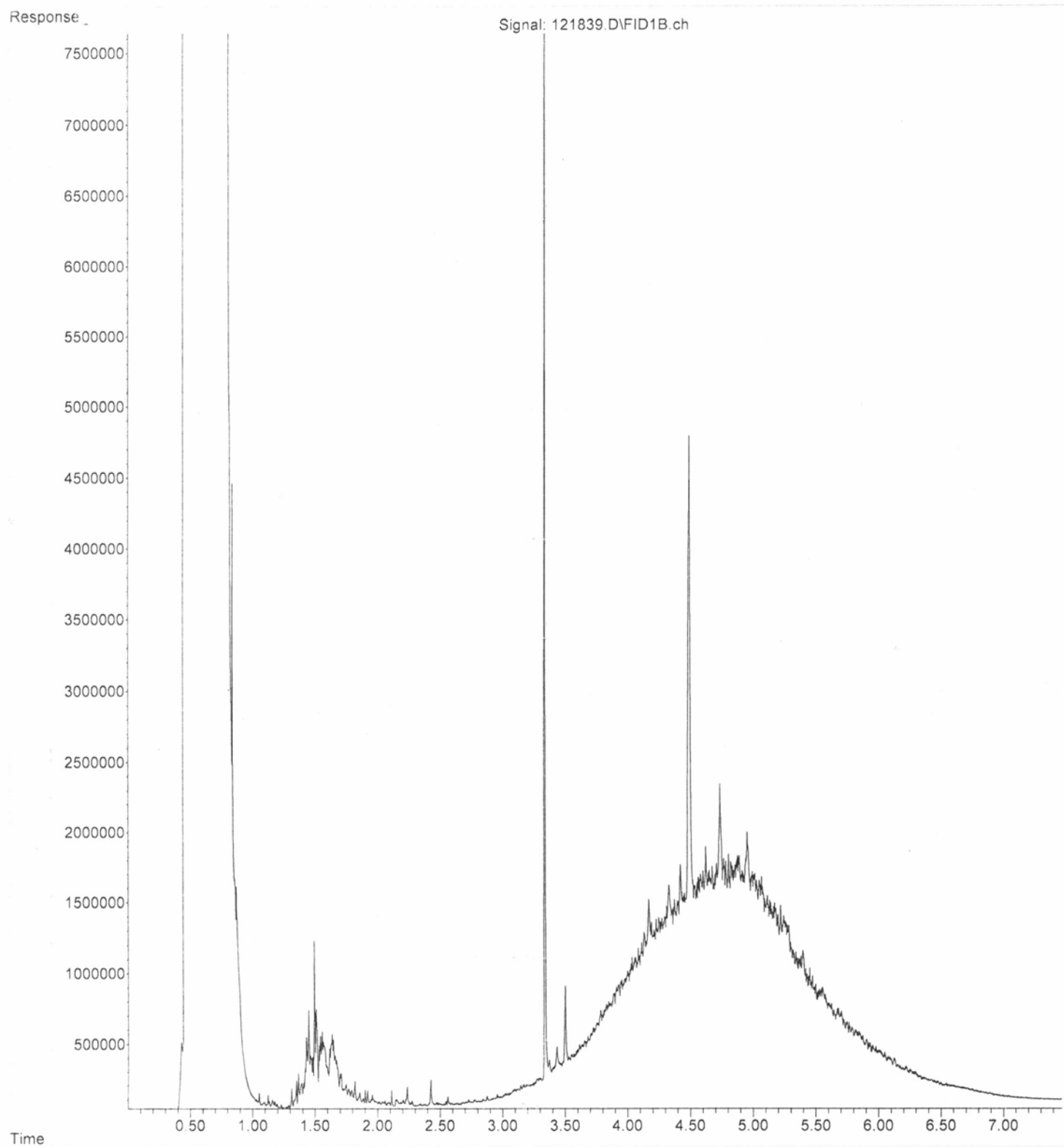
Other comments (use a separate page if needed)
Added Matrix to COC 12/17

Air Samples: Were any additional canisters/tubes received? ☐ NA ☐ YES ☐ NO

Number of unused TO15 canisters _____ Number of unused TO17 tubes _____

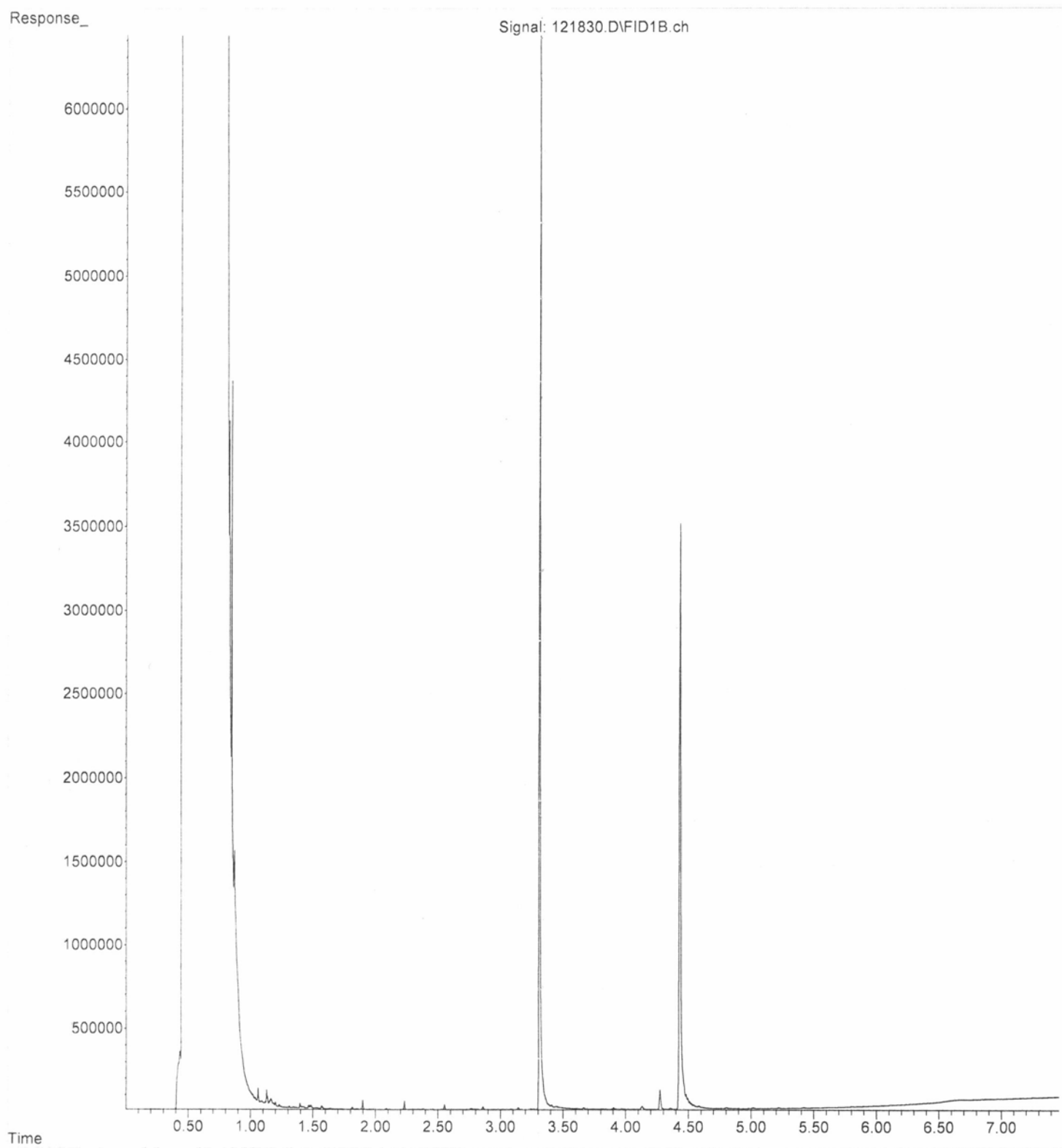
File : P:\Proc_GC14\12-18-24\121839.D
Operator : TL
Acquired : 18 Dec 2024 05:00 pm using AcqMethod DX.M
Instrument : GC14
Sample Name: 412321-02
Misc Info :
Vial Number: 36

ERR



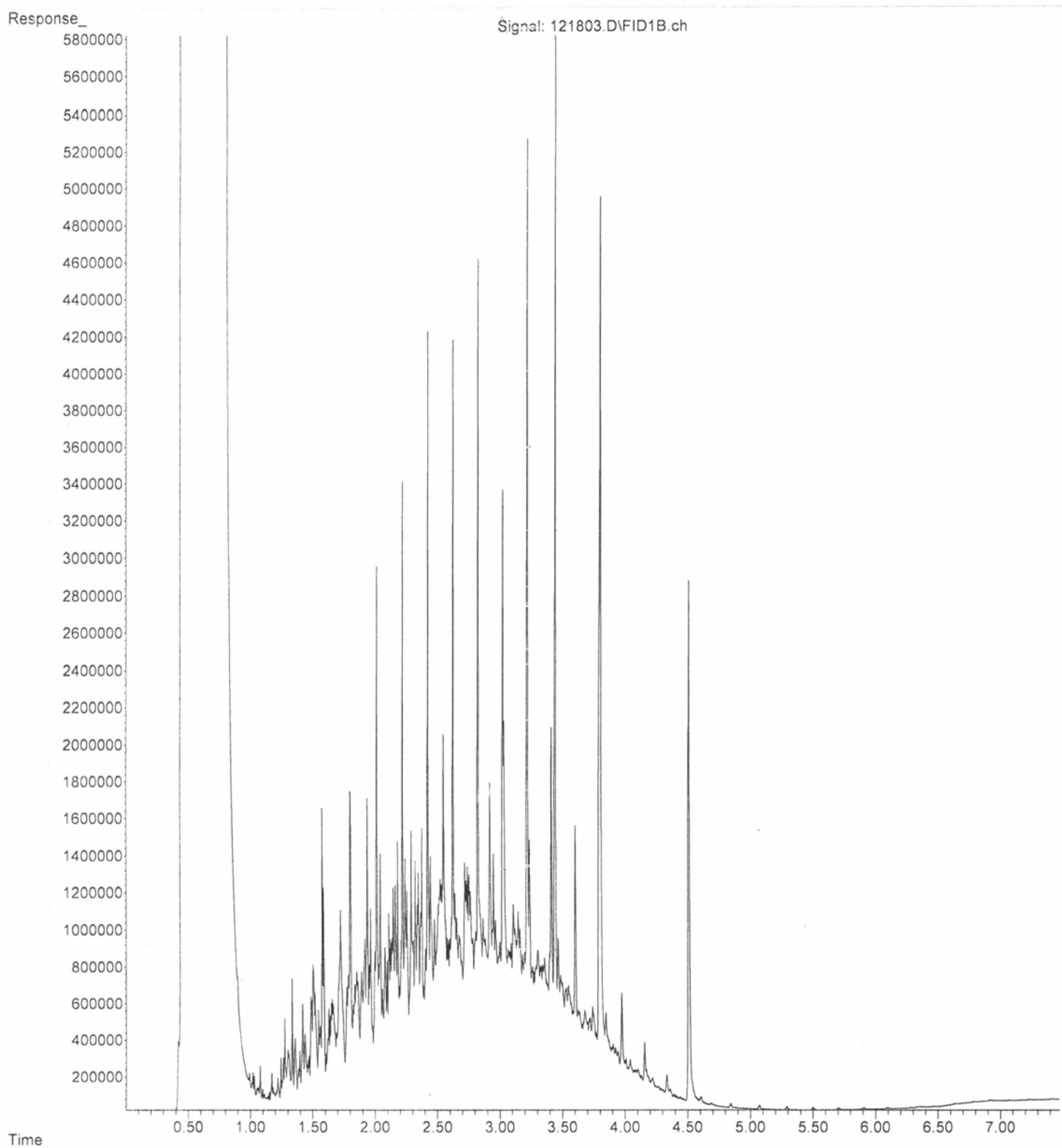
File : P:\Proc_GC14\12-18-24\121830.D
Operator : TL
Acquired : 18 Dec 2024 03:13 pm using AcqMethod DX.M
Instrument : GC14
Sample Name: 04-3130 mb
Misc Info :
Vial Number: 29

ERR



File : P:\Proc_GC14\12-18-24\121803.D
Operator : TL
Acquired : 18 Dec 2024 08:24 am using AcqMethod DX.M
Instrument : GC14
Sample Name: 500 Dx 74-61B
Misc Info :
Vial Number: 3

ERR





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Seattle, WA 98103

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info@fremontanalytical.com

Friedman & Bruya

Michael Erdahl

5500 4th Ave S

Seattle, WA 98108

RE: 412321,

Work Order Number: 2412380

December 30, 2024

Attention Michael Erdahl:

Fremont Analytical, Inc, an Alliance Technical Group company, received 1 sample(s) on 12/18/2024 for the analyses presented in the following report.

Dissolved Gases by RSK-175

Ferrous Iron by SM3500-Fe B

Ion Chromatography by EPA 300.0

Total Alkalinity by EPA 310.2

All analyses were performed according to our accredited Quality Assurance program. Please contact the laboratory if you should have any questions about the results.

Alliance Technical Group is committed to accuracy, speed, and customer service. Thank you for choosing Alliance Technical Group's Seattle laboratory team for your analytical needs. We appreciate this opportunity to serve you!

Sincerely,

A handwritten signature in blue ink, appearing to read "Brianna Barnes".

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.4 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910



Original

www.fremontanalytical.com



Date: 12/30/2024

CLIENT: Friedman & Bruya
Project: 412321
Work Order: 2412380

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2412380-001	MW28-20241216	12/16/2024 3:35 PM	12/18/2024 1:05 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

Original

CLIENT: Friedman & Bruya

Project: 412321

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate

CLIENT: Friedman & Bruya
Project: 412321

Lab ID: 2412380-001

Collection Date: 12/16/2024 3:35:00 PM

Client Sample ID: MW28-20241216

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Dissolved Gases by RSK-175

Batch ID: R96649 Analyst: CO

Methane	0.0599	0.00500		mg/L	1	12/30/2024 12:44:00 PM
Ethene	ND	0.0100		mg/L	1	12/30/2024 12:44:00 PM
Ethane	ND	0.0100		mg/L	1	12/30/2024 12:44:00 PM

Ion Chromatography by EPA 300.0

Batch ID: 46222 Analyst: OP

Nitrate (as N)	ND	0.150	H	mg/L	1	12/19/2024 12:24:00 PM
Sulfate	3.15	1.00		mg/L	1	12/19/2024 12:24:00 PM

Total Alkalinity by EPA 310.2

Batch ID: R96631 Analyst: NR

Alkalinity, Total (As CaCO ₃)	253	25.0	D	mg/L	10	12/26/2024 3:51:00 PM
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Ferrous Iron by SM3500-Fe B

Batch ID: R96455 Analyst: JH

Ferrous Iron	3.79	1.50	DH	mg/L	10	12/19/2024 9:52:36 AM
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Work Order: 2412380
CLIENT: Friedman & Bruya
Project: 412321

QC SUMMARY REPORT

Total Alkalinity by EPA 310.2

Sample ID: MB		SampType: MBLK			Units: mg/L		Prep Date: 12/26/2024			RunNo: 96631		
Client ID: MBLKW		Batch ID: R96631			Analysis Date: 12/26/2024					SeqNo: 2015976		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Alkalinity, Total (As CaCO3)	ND	2.50									
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Sample ID: LCS		SampType: LCS			Units: mg/L		Prep Date: 12/26/2024			RunNo: 96631		
Client ID: LCSW		Batch ID: R96631			Analysis Date: 12/26/2024			SeqNo: 2015977				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Alkalinity, Total (As CaCO3)	26.4	2.50	25.00	0	106	83.8	121				
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Sample ID: 2412424-001ADUP		SampType: DUP			Units: mg/L		Prep Date: 12/26/2024			RunNo: 96631		
Client ID: BATCH		Batch ID: R96631			Analysis Date: 12/26/2024			SeqNo: 2015979				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Alkalinity, Total (As CaCO3)	52.8	2.50						55.40	4.81	20	E
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Work Order: 2412380
CLIENT: Friedman & Bruya
Project: 412321

QC SUMMARY REPORT

Ferrous Iron by SM3500-Fe B

Sample ID: MB-R96455	SampType: MBLK	Units: mg/L		Prep Date: 12/19/2024	RunNo: 96455							
Client ID: MBLKW	Batch ID: R96455			Analysis Date: 12/19/2024	SeqNo: 2012329							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Ferrous Iron	ND	0.150										

Sample ID: LCS-R96455	SampType: LCS	Units: mg/L		Prep Date: 12/19/2024	RunNo: 96455							
Client ID: LCSW	Batch ID: R96455			Analysis Date: 12/19/2024	SeqNo: 2012330							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Ferrous Iron	0.376	0.150	0.4000	0	94.1	85	115					

Sample ID: 2412380-001CDUP	SampType: DUP	Units: mg/L		Prep Date: 12/19/2024	RunNo: 96455							
Client ID: MW28-20241216	Batch ID: R96455			Analysis Date: 12/19/2024	SeqNo: 2012332							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Ferrous Iron	3.93	1.50						3.791	3.70	20	DH	

Sample ID: 2412380-001CMS	SampType: MS	Units: mg/L		Prep Date: 12/19/2024	RunNo: 96455							
Client ID: MW28-20241216	Batch ID: R96455			Analysis Date: 12/19/2024	SeqNo: 2012333							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Ferrous Iron	8.22	1.50	4.000	3.791	111	70	130				DH	

Sample ID: 2412380-001CMSD	SampType: MSD	Units: mg/L		Prep Date: 12/19/2024	RunNo: 96455							
Client ID: MW28-20241216	Batch ID: R96455			Analysis Date: 12/19/2024	SeqNo: 2012334							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Ferrous Iron	7.54	1.50	4.000	3.791	93.7	70	130	8.224	8.71	30	DH	

Work Order: 2412380
 CLIENT: Friedman & Bruya
 Project: 412321

QC SUMMARY REPORT

Ion Chromatography by EPA 300.0

Sample ID: MB-46222		SampType: MBLK			Units: mg/L		Prep Date: 12/19/2024			RunNo: 96482		
Client ID: MBLKW		Batch ID: 46222			Analysis Date: 12/19/2024				SeqNo: 2012997			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Nitrate (as N)	ND	0.150									
Sulfate	ND	1.00									

Sample ID: 2412268-001DDUP		SampType: DUP			Units: mg/L		Prep Date: 12/19/2024			RunNo: 96482		
Client ID: BATCH		Batch ID: 46222			Analysis Date: 12/19/2024			SeqNo: 2013013				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Nitrate (as N)	ND	0.150						0		20	H
Sulfate	2.49	1.00						2.547	2.22	20	

Sample ID: 2412268-001DMS	SampType: MS	Units: mg/L			Prep Date: 12/19/2024			RunNo: 96482			
Client ID: BATCH	Batch ID: 46222				Analysis Date: 12/19/2024			SeqNo: 2013015			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate (as N)	2.24	0.150	2.259	0.08000	95.8	80	120				H
Sulfate	12.4	1.00	10.00	2.547	98.3	80	120				

Sample ID: 2412268-001DMSD		SampType: MSD		Units: mg/L		Prep Date: 12/19/2024			RunNo: 96482		
Client ID: BATCH		Batch ID: 46222		Analysis Date: 12/19/2024			SeqNo: 2013017				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate (as N)	2.25	0.150	2.259	0.08000	95.9	80	120	2.245	0.0445	20	H
Sulfate	11.8	1.00	10.00	2.547	92.4	80	120	12.38	4.87	20	

Sample ID: 2412268-002DDUP		SampType: DUP			Units: mg/L		Prep Date: 12/19/2024			RunNo: 96482		
Client ID: BATCH		Batch ID: 46222			Analysis Date: 12/19/2024				SeqNo: 2013020			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Nitrate (as N)	ND	0.150						0		20	H
Sulfate	2.54	1.00						2.566	1.14	20	

Work Order: 2412380
CLIENT: Friedman & Bruya
Project: 412321

QC SUMMARY REPORT

Ion Chromatography by EPA 300.0

Sample ID: 2412268-002DDUP		SampType: DUP			Units: mg/L		Prep Date: 12/19/2024			RunNo: 96482		
Client ID: BATCH		Batch ID: 46222			Analysis Date: 12/19/2024					SeqNo: 2013020		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Sample ID: 2412268-002DMS		SampType: MS			Units: mg/L		Prep Date: 12/19/2024		RunNo: 96482		
Client ID: BATCH		Batch ID: 46222			Analysis Date: 12/19/2024				SeqNo: 2013022		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	2.23	0.150	2.259	0.07900	95.4	80	120				H
Sulfate	12.1	1.00	10.00	2.566	95.2	80	120				

Sample ID: LCS-46222		SampType: LCS		Units: mg/L		Prep Date: 12/19/2024			RunNo: 96482		
Client ID: LCSW		Batch ID: 46222		Analysis Date: 12/19/2024					SeqNo: 2013028		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	2.10	0.150	2.259	0	93.1	90	110				

Work Order: 2412380
CLIENT: Friedman & Bruya
Project: 412321

QC SUMMARY REPORT

Dissolved Gases by RSK-175

Sample ID: LCS-R96649		SampType: LCS			Units: ppmv		Prep Date: 12/30/2024			RunNo: 96649		
Client ID: LCSW		Batch ID: R96649			Analysis Date: 12/30/2024					SeqNo: 2016291		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Methane	1,110	0.00500	1,000	0	111	73.6	124				
Ethene	1,130	0.0100	1,000	0	113	76.3	122				
Ethane	1,140	0.0100	1,000	0	114	76.1	123				

Sample ID: MB-R96649		SampType: MBLK			Units: mg/L		Prep Date: 12/30/2024			RunNo: 96649		
Client ID: MBLKW		Batch ID: R96649			Analysis Date: 12/30/2024					SeqNo: 2016257		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Methane	ND	0.00500									
Ethene	ND	0.0100									
Ethane	ND	0.0100									

Sample ID: 2412380-001AREP		SampType: REP			Units: mg/L		Prep Date: 12/30/2024			RunNo: 96649		
Client ID: MW28-20241216		Batch ID: R96649						Analysis Date: 12/30/2024			SeqNo: 2016246	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Methane	0.0583	0.00500						0.05992	2.74	30	
Ethene	ND	0.0100						0		30	
Ethane	ND	0.0100						0		30	

Client Name: FB

Work Order Number: 2412380

Logged by: Clare Griggs

Date Received: 12/18/2024 1:05:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒
4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all items received at a temperature of >2°C to 6°C * Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. Is there headspace in the VOA vials? Yes ☐ No ☒ NA ☐
11. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
12. Does paperwork match bottle labels? Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all hold times (except field parameters, pH e.g.) able to be met? Yes ☐ No ☒

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:	Michael Erdahl	Date:	12/18/2024
By Whom:	Clare Griqs	Via:	☒ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:	Ferrous Fe hold time		
Client Instructions:			

17. Additional remarks:

Item Information

Item #	Temp °C
Sample	4.5

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

2412380

Send Report To Michael Erdahl

Company Friedman and Bruya, Inc.

Address 5500 4th Ave S

City, State, ZIP Seattle, WA 98108

Phone # (206) 285-8282 merdahl@friedmanandbrya.com

TURNAROUND TIME

☒ Standard TAT

☐ RUSH _____

Rush charges authorized by: _____

SAMPLE DISPOSAL

Dispose after 30 days

Return samples

Will call with instructions

Page 12 of 12

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 Ave South
Seattle, WA 98108-2419
(206) 285-8282
office@friedmanandbruya.com
www.friedmanandbruya.com

January 3, 2025

Linnea Coleman, Project Manager
SoundEarth Strategies
1011 SW Klickitat Way, Suite 104
Seattle, WA 98134

Dear Ms Coleman:

Included are the results from the testing of material submitted on December 18, 2024 from the SOU_0731-004_20241218, F&BI 412352 project. There are 17 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Tom Cammarata
SOU0103R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on December 18, 2024 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0731-004_20241218, F&BI 412352 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
412352 -01	MW04-20241218
412352 -02	MW07-20241218
412352 -03	MW13-20241218
412352 -04	MW26-20241218

Samples MW04-20241218, MW07-20241218, and MW26-20241218 were sent to Alliance Technical Group for RSK MEE, sulfate, nitrate, alkalinity, TOC, and ferrous iron analyses. The report is enclosed.

The 6020B iron calibration standard exceeded the acceptance criteria for the method blank. The metal was not detected, therefore this did not represent an out of control condition, and were qualified with a "k" qualifier.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/03/25

Date Received: 12/18/24

Project: SOU_0731-004_20241218, F&BI 412352

Date Extracted: 12/20/24

Date Analyzed: 12/20/24

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

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	Surrogate <u>(% Recovery)</u> (Limit 50-150)
MW13-20241218 412352-03	<100	96
Method Blank 04-3035 MB	<100	90

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/03/25

Date Received: 12/18/24

Project: SOU_0731-004_20241218, F&BI 412352

Date Extracted: 12/20/24

Date Analyzed: 12/20/24

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

Results Reported as ug/L (ppb)

<u>Sample ID</u>	<u>Diesel Range</u>	<u>Motor Oil Range</u>	<u>Surrogate</u>
Laboratory ID	(C ₁₀ -C ₂₅)	(C ₂₅ -C ₃₆)	(% Recovery)
			(Limit 50-150)
MW13-20241218	<50	<250	104
412352-03			
Method Blank	<50	<250	126
04-3150 MB2			

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW04-20241218	Client:	SoundEarth Strategies
Date Received:	12/18/24	Project:	SOU_0731-004_20241218, F&BI 412352
Date Extracted:	12/20/24	Lab ID:	412352-01
Date Analyzed:	12/20/24	Data File:	122028.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	94	78	126
Toluene-d8	98	84	115
4-Bromofluorobenzene	99	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	9.8
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW07-20241218	Client:	SoundEarth Strategies
Date Received:	12/18/24	Project:	SOU_0731-004_20241218, F&BI 412352
Date Extracted:	12/20/24	Lab ID:	412352-02
Date Analyzed:	12/20/24	Data File:	122029.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	78	126
Toluene-d8	97	84	115
4-Bromofluorobenzene	87	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	5.7
Tetrachloroethene	2.3

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW13-20241218	Client:	SoundEarth Strategies
Date Received:	12/18/24	Project:	SOU_0731-004_20241218, F&BI 412352
Date Extracted:	12/20/24	Lab ID:	412352-03
Date Analyzed:	12/20/24	Data File:	122030.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	95	78	126
Toluene-d8	93	84	115
4-Bromofluorobenzene	96	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	<0.5
Tetrachloroethene	4.4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW26-20241218	Client:	SoundEarth Strategies
Date Received:	12/18/24	Project:	SOU_0731-004_20241218, F&BI 412352
Date Extracted:	12/20/24	Lab ID:	412352-04
Date Analyzed:	12/20/24	Data File:	122031.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	78	126
Toluene-d8	94	84	115
4-Bromofluorobenzene	89	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	15
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0731-004_20241218, F&BI 412352
Date Extracted:	12/20/24	Lab ID:	04-3142 mb
Date Analyzed:	12/20/24	Data File:	122009.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	78	126
Toluene-d8	100	84	115
4-Bromofluorobenzene	97	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	<0.5
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW04-20241218	Client:	SoundEarth Strategies
Date Received:	12/18/24	Project:	SOU_0731-004_20241218, F&BI 412352
Date Extracted:	12/20/24	Lab ID:	412352-01
Date Analyzed:	12/23/24	Data File:	412352-01.184
Matrix:	Water	Instrument:	ICPMS3
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Iron	220
Manganese	11

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW07-20241218	Client:	SoundEarth Strategies
Date Received:	12/18/24	Project:	SOU_0731-004_20241218, F&BI 412352
Date Extracted:	12/20/24	Lab ID:	412352-02
Date Analyzed:	12/26/24	Data File:	412352-02.070
Matrix:	Water	Instrument:	ICPMS3
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Iron	110
Manganese	8.7

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW26-20241218	Client:	SoundEarth Strategies
Date Received:	12/18/24	Project:	SOU_0731-004_20241218, F&BI 412352
Date Extracted:	12/20/24	Lab ID:	412352-04 x10
Date Analyzed:	12/26/24	Data File:	412352-04 x10.071
Matrix:	Water	Instrument:	ICPMS3
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Iron	2,100
Manganese	920

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	NA	Project:	SOU_0731-004_20241218, F&BI 412352
Date Extracted:	12/20/24	Lab ID:	I4-1113 mb2
Date Analyzed:	12/20/24	Data File:	I4-1113 mb2.126
Matrix:	Water	Instrument:	ICPMS3
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Iron	<50 k
Manganese	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/03/25

Date Received: 12/18/24

Project: SOU_0731-004_20241218, F&BI 412352

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

Laboratory Code: 412352-03 (Duplicate)

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	ug/L (ppb)	1,000	97	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/03/25

Date Received: 12/18/24

Project: SOU_0731-004_20241218, F&BI 412352

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	100	96	65-151	4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/03/25

Date Received: 12/18/24

Project: SOU_0731-004_20241218, F&BI 412352

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

Laboratory Code: 412362-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent	Acceptance Criteria
				Recovery MS	
Vinyl chloride	ug/L (ppb)	10	<0.02	123	50-150
trans-1,2-Dichloroethene	ug/L (ppb)	10	<1	111	50-150
cis-1,2-Dichloroethene	ug/L (ppb)	10	<1	112	10-211
Trichloroethene	ug/L (ppb)	10	<0.5	100	35-149
Tetrachloroethene	ug/L (ppb)	10	<1	108	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	Percent	Acceptance Criteria	RPD (Limit 20)
			Recovery LCS	Recovery LCSD		
Vinyl chloride	ug/L (ppb)	10	124	125	64-142	1
trans-1,2-Dichloroethene	ug/L (ppb)	10	109	111	70-130	2
cis-1,2-Dichloroethene	ug/L (ppb)	10	108	110	70-130	2
Trichloroethene	ug/L (ppb)	10	98	98	70-130	0
Tetrachloroethene	ug/L (ppb)	10	104	103	70-130	1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/03/25

Date Received: 12/18/24

Project: SOU_0731-004_20241218, F&BI 412352

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR TOTAL METALS USING EPA METHOD 200.8**

Laboratory Code: 412314-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Iron	ug/L (ppb)	100	376	63 b	0 b	70-130	200 b
Manganese	ug/L (ppb)	10	3.24	92 b	94 b	70-130	2 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Iron	ug/L (ppb)	100	106	85-115
Manganese	ug/L (ppb)	10	101	85-115

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

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

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

ca - The calibration results for the analyte were outside of acceptance criteria, 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 between the method detection limit and the lowest calibration point. 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.

SAMPLE CHAIN OF CUSTODY

4123529

Send Report To Linnea Coleman, Tom Cammarata

Company SoundEarth Strategies

Address 1011 Southwest Klickitat Way, Suite 212

City, State, ZIP Seattle, WA 98134

SAMPLERS (signature)

Linnea Coleman

12/18/24

Page #

1 of 1

TURNAROUND TIME

Standard (2 Weeks)

Rush charges authorized by:

☒ SAMPLE DISPOSAL

Dispose after 30 days
Return samples
Will call with instructions

PROJECT NAME/NO.

Troy Laundry Property

PO #

0731-004

REMARKS

*cVOCs = PCE, TCE, Cis/Trans-DCE, and Vinyl Chloride Reporting Limit = 0.2 ug/L

EIM Y

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	cVOCs * by EPA 8260	GRPH by NWTPH-Gx	DRPH/ORPH by NWTPH-Dx	Methane, Ethane, Ethene by RSK175	Sulfate, Nitrate, Alkalinity by SM1845/SM2320B	Total Fe and Mn by EPA 200.8	Fe 2+ by SM 3500	TOC	Notes
MW04-20241218	MW04	-	01A	12/18/24	1410	H2O	10	X			X	X	X	X	X	
MW07-20241218	MW07	-	02A	12/18/24	1456		10	X			X	X	X	X	X	
MW13-20241218	MW13	-	03A	12/18/24	1344		5	X	X		X	X	X	X	X	
MW26-20241218	MW26	-	04A	12/18/24	1005		10	X			X	X	X	X	X	
<i>See 12/18/24</i>																

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

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
<i>Linnea Coleman</i>	Linnea Coleman	SES	12/18/24	1826
<i>Isaac Lessig</i>	Isaac Lessig	FR31	12/18/24	1826
Received by:				
Relinquished by:				
Received by:				
Samples received at <u>2</u> oc				

SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT # A12352 CLIENT Sand Earth INITIALS/DATE: MLR/18/24

If custody seals are present on cooler, are they intact? ☒ NA ☐ YES ☐ NO

Cooler/Sample temperature 2 °C
Thermometer ID: Fluke 96312917

Were samples received on ice/cold packs? ☒ YES ☐ NO

How did samples arrive?
☒ Over the Counter ☐ Picked up by F&BI ☐ FedEx/UPS/GSO

Is there a Chain-of-Custody* (COC)? ☒ YES ☐ NO Initials/Date: (NA) 12/19
*or other representative documents, letters, and/or shipping memos

Number of days samples have been sitting prior to receipt at laboratory 0 days

Are the samples clearly identified? (explain "no" answer below) ☒ YES ☐ NO

Were all sample containers received intact (i.e. not broken, leaking etc.)? (explain "no" answer below) ☒ YES ☐ NO

Were appropriate sample containers used? ☒ YES ☐ NO ☐ Unknown

If custody seals are present on samples, are they intact? ☒ NA ☐ YES ☐ NO

Are samples requiring no headspace, headspace free? ☐ NA ☒ YES ☐ NO

Is the following information provided on the COC, and does it match the sample label?
(explain "no" answer below)

Sample ID's	☒ Yes ☐ No	☐ Not on COC/label
Date Sampled	☒ Yes ☐ No	☐ Not on COC/label
Time Sampled	☒ Yes ☐ No	☐ Not on COC/label
# of Containers	☒ Yes ☐ No	
Relinquished	☒ Yes ☐ No	
Requested analysis	☒ Yes ☐ On Hold	

Other comments (use a separate page if needed)

Air Samples: Were any additional canisters/tubes received? ☒ NA ☐ YES ☐ NO

Number of unused TO15 canisters _____ Number of unused TO17 tubes _____

Friedman & Bruya
Michael Erdahl
5500 4th Ave S
Seattle, WA 98108

RE: 412352,
Work Order Number: 2412424

December 31, 2024

Attention Michael Erdahl:

Fremont Analytical, Inc, an Alliance Technical Group company, received 3 sample(s) on 12/19/2024 for the analyses presented in the following report.

Dissolved Gases by RSK-175
Ferrous Iron by SM3500-Fe B
Ion Chromatography by EPA 300.0
Total Alkalinity by EPA 310.2
Total Organic Carbon by SM 5310C

All analyses were performed according to our accredited Quality Assurance program. Please contact the laboratory if you should have any questions about the results.

Alliance Technical Group is committed to accuracy, speed, and customer service. Thank you for choosing Alliance Technical Group's Seattle laboratory team for your analytical needs. We appreciate this opportunity to serve you!

Sincerely,



Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.4 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Original





Date: 12/31/2024

CLIENT: Friedman & Bruya
Project: 412352
Work Order: 2412424

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2412424-001	MW04-20241218	12/18/2024 2:10 PM	12/19/2024 12:46 PM
2412424-002	MW07-20241218	12/18/2024 2:56 PM	12/19/2024 12:46 PM
2412424-003	MW26-20241218	12/18/2024 10:05 AM	12/19/2024 12:46 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

Original

CLIENT: Friedman & Bruya
Project: 412352

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate

CLIENT: Friedman & Bruya
Project: 412352

Lab ID: 2412424-001
Client Sample ID: MW04-20241218

Collection Date: 12/18/2024 2:10:00 PM
Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Dissolved Gases by RSK-175</u>				Batch ID: R96649		Analyst: CO
Methane	ND	0.00500		mg/L	1	12/30/2024 2:51:00 PM
Ethene	ND	0.0100		mg/L	1	12/30/2024 2:51:00 PM
Ethane	ND	0.0100		mg/L	1	12/30/2024 2:51:00 PM
<u>Ion Chromatography by EPA 300.0</u>				Batch ID: 46222		Analyst: OP
Nitrate (as N)	13.4	0.300	D	mg/L	2	12/19/2024 9:45:00 PM
Sulfate	49.4	2.00	D	mg/L	2	12/19/2024 9:45:00 PM
<u>Total Organic Carbon by SM 5310C</u>				Batch ID: R96516		Analyst: SLL
Total Organic Carbon	ND	0.700		mg/L	1	12/21/2024 11:42:00 PM
<u>Total Alkalinity by EPA 310.2</u>				Batch ID: R96631		Analyst: NR
Alkalinity, Total (As CaCO ₃)	70.0	10.0	D	mg/L	4	12/26/2024 4:45:00 PM
<u>Ferrous Iron by SM3500-Fe B</u>				Batch ID: R96455		Analyst: JH
Ferrous Iron	ND	0.150		mg/L	1	12/19/2024 9:52:36 AM

CLIENT: Friedman & Bruya
Project: 412352

Lab ID: 2412424-002
Client Sample ID: MW07-20241218

Collection Date: 12/18/2024 2:56:00 PM
Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Dissolved Gases by RSK-175

Batch ID: R96649 Analyst: CO

Methane	ND	0.00500		mg/L	1	12/30/2024 2:55:00 PM
Ethene	ND	0.0100		mg/L	1	12/30/2024 2:55:00 PM
Ethane	ND	0.0100		mg/L	1	12/30/2024 2:55:00 PM

Ion Chromatography by EPA 300.0

Batch ID: 46222 Analyst: OP

Nitrate (as N)	20.8	0.300	D	mg/L	2	12/19/2024 9:58:00 PM
Sulfate	33.8	2.00	D	mg/L	2	12/19/2024 9:58:00 PM

Total Organic Carbon by SM 5310C

Batch ID: R96516 Analyst: SLL

Total Organic Carbon	ND	0.700		mg/L	1	12/22/2024 12:08:00 AM
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Total Alkalinity by EPA 310.2

Batch ID: R96631 Analyst: NR

Alkalinity, Total (As CaCO ₃)	ND	2.50		mg/L	1	12/26/2024 2:57:00 PM
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Ferrous Iron by SM3500-Fe B

Batch ID: R96455 Analyst: JH

Ferrous Iron	ND	0.150		mg/L	1	12/19/2024 9:52:36 AM
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CLIENT: Friedman & Bruya
Project: 412352

Lab ID: 2412424-003
Client Sample ID: MW26-20241218

Collection Date: 12/18/2024 10:05:00 AM
Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Dissolved Gases by RSK-175

Batch ID: R96649 Analyst: CO

Methane	ND	0.00500		mg/L	1	12/30/2024 2:58:00 PM
Ethene	ND	0.0100		mg/L	1	12/30/2024 2:58:00 PM
Ethane	ND	0.0100		mg/L	1	12/30/2024 2:58:00 PM

Ion Chromatography by EPA 300.0

Batch ID: 46222 Analyst: OP

Nitrate (as N)	0.827	0.150	H	mg/L	1	12/21/2024 3:03:00 AM
Sulfate	36.7	1.00	H	mg/L	1	12/21/2024 3:03:00 AM

Total Organic Carbon by SM 5310C

Batch ID: R96516 Analyst: SLL

Total Organic Carbon	0.746	0.700		mg/L	1	12/22/2024 12:37:00 AM
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Total Alkalinity by EPA 310.2

Batch ID: R96631 Analyst: NR

Alkalinity, Total (As CaCO ₃)	166	25.0	D	mg/L	10	12/26/2024 4:00:00 PM
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Ferrous Iron by SM3500-Fe B

Batch ID: R96455 Analyst: JH

Ferrous Iron	0.330	0.150		mg/L	1	12/19/2024 9:52:36 AM
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Work Order: 2412424
CLIENT: Friedman & Bruya
Project: 412352

QC SUMMARY REPORT

Total Alkalinity by EPA 310.2

Sample ID: MB	SampType: MBLK	Units: mg/L		Prep Date: 12/26/2024	RunNo: 96631							
Client ID: MBLKW	Batch ID: R96631			Analysis Date: 12/26/2024	SeqNo: 2015976							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Alkalinity, Total (As CaCO3)	ND	2.50										

Sample ID: LCS	SampType: LCS	Units: mg/L		Prep Date: 12/26/2024	RunNo: 96631							
Client ID: LCSW	Batch ID: R96631			Analysis Date: 12/26/2024	SeqNo: 2015977							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Alkalinity, Total (As CaCO3)	26.4	2.50	25.00	0	106	83.8	121					

Sample ID: 2412424-001ADUP	SampType: DUP	Units: mg/L		Prep Date: 12/26/2024	RunNo: 96631							
Client ID: MW04-20241218	Batch ID: R96631			Analysis Date: 12/26/2024	SeqNo: 2015979							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Alkalinity, Total (As CaCO3)	52.8	2.50						55.40	4.81	20	E	

Work Order: 2412424
CLIENT: Friedman & Bruya
Project: 412352

QC SUMMARY REPORT

Ferrous Iron by SM3500-Fe B

Sample ID: MB-R96455		SampType: MBLK		Units: mg/L		Prep Date: 12/19/2024			RunNo: 96455		
Client ID: MBLKW		Batch ID: R96455					Analysis Date: 12/19/2024			SeqNo: 2012329	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ferrous Iron	ND	0.150									
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Sample ID: LCS-R96455		SampType: LCS		Units: mg/L		Prep Date: 12/19/2024			RunNo: 96455		
Client ID: LCSW		Batch ID: R96455					Analysis Date: 12/19/2024			SeqNo: 2012330	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ferrous Iron	0.376	0.150	0.4000	0	94.1	85	115				
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Sample ID: 2412380-001CDUP		SampType: DUP		Units: mg/L		Prep Date: 12/19/2024			RunNo: 96455		
Client ID: BATCH		Batch ID: R96455					Analysis Date: 12/19/2024			SeqNo: 2012332	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ferrous Iron	3.93	1.50						3.791	3.70	20	DH
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Sample ID: 2412380-001CMS		SampType: MS		Units: mg/L		Prep Date: 12/19/2024			RunNo: 96455		
Client ID: BATCH		Batch ID: R96455					Analysis Date: 12/19/2024			SeqNo: 2012333	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ferrous Iron	8.22	1.50	4.000	3.791	111	70	130				DH
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Sample ID: 2412380-001CMSD		SampType: MSD		Units: mg/L		Prep Date: 12/19/2024			RunNo: 96455		
Client ID: BATCH		Batch ID: R96455					Analysis Date: 12/19/2024			SeqNo: 2012334	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ferrous Iron	7.54	1.50	4.000	3.791	93.7	70	130	8.224	8.71	30	DH
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Work Order: 2412424
CLIENT: Friedman & Bruya
Project: 412352

QC SUMMARY REPORT

Ion Chromatography by EPA 300.0

Sample ID: MB-46222		SampType: MBLK			Units: mg/L		Prep Date: 12/19/2024			RunNo: 96482		
Client ID: MBLKW		Batch ID: 46222			Analysis Date: 12/19/2024			SeqNo: 2012997				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Nitrate (as N)	ND	0.150										
Sulfate	ND	1.00										

Sample ID: 2412268-001DDUP		SampType: DUP			Units: mg/L		Prep Date: 12/19/2024			RunNo: 96482		
Client ID: BATCH		Batch ID: 46222			Analysis Date: 12/19/2024			SeqNo: 2013013				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Nitrate (as N)	ND	0.150						0		20	H	
Sulfate	2.49	1.00						2.547	2.22	20		

Sample ID: 2412268-001DMS		SampType: MS			Units: mg/L		Prep Date: 12/19/2024			RunNo: 96482		
Client ID: BATCH		Batch ID: 46222			Analysis Date: 12/19/2024			SeqNo: 2013015				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Nitrate (as N)	2.24	0.150	2.259	0.08000	95.8	80	120				H	
Sulfate	12.4	1.00	10.00	2.547	98.3	80	120					

Sample ID: 2412268-001DMSD		SampType: MSD			Units: mg/L		Prep Date: 12/19/2024			RunNo: 96482		
Client ID: BATCH		Batch ID: 46222			Analysis Date: 12/19/2024			SeqNo: 2013017				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Nitrate (as N)	2.25	0.150	2.259	0.08000	95.9	80	120	2.245	0.0445	20	H	
Sulfate	11.8	1.00	10.00	2.547	92.4	80	120	12.38	4.87	20		

Sample ID: 2412268-002DDUP		SampType: DUP			Units: mg/L		Prep Date: 12/19/2024			RunNo: 96482		
Client ID: BATCH		Batch ID: 46222			Analysis Date: 12/19/2024			SeqNo: 2013020				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Nitrate (as N)	ND	0.150						0		20	H	
Sulfate	2.54	1.00						2.566	1.14	20		

Work Order: 2412424
CLIENT: Friedman & Bruya
Project: 412352

QC SUMMARY REPORT

Ion Chromatography by EPA 300.0

Sample ID: 2412268-002DDUP		SampType: DUP			Units: mg/L		Prep Date: 12/19/2024			RunNo: 96482		
Client ID: BATCH		Batch ID: 46222			Analysis Date: 12/19/2024				SeqNo: 2013020			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Sample ID: 2412268-002DMS		SampType: MS			Units: mg/L		Prep Date: 12/19/2024		RunNo: 96482		
Client ID: BATCH		Batch ID: 46222			Analysis Date: 12/19/2024				SeqNo: 2013022		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	2.23	0.150	2.259	0.07900	95.4	80	120				H
Sulfate	12.1	1.00	10.00	2.566	95.2	80	120				

Sample ID: LCS-46222		SampType: LCS			Units: mg/L		Prep Date: 12/19/2024		RunNo: 96482		
Client ID: LCSW		Batch ID: 46222			Analysis Date: 12/19/2024				SeqNo: 2013028		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	2.10	0.150	2.259	0	93.1	90	110				

Sample ID: LCS-46222 RR		SampType: LCS			Units: mg/L		Prep Date: 12/20/2024		RunNo: 96482		
Client ID: LCSW		Batch ID: 46222			Analysis Date: 12/20/2024				SeqNo: 2013752		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	9.94	1.00	10.00	0	99.4	90	110				

Work Order: 2412424
CLIENT: Friedman & Bruya
Project: 412352

QC SUMMARY REPORT

Total Organic Carbon by SM 5310C

Sample ID: MB-96516	SampType: MBLK	Units: mg/L		Prep Date: 12/20/2024	RunNo: 96516							
Client ID: MBLKW	Batch ID: R96516			Analysis Date: 12/20/2024	SeqNo: 2013610							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Total Organic Carbon	ND	0.700										

Sample ID: LCS-96516	SampType: LCS	Units: mg/L		Prep Date: 12/20/2024	RunNo: 96516							
Client ID: LCSW	Batch ID: R96516			Analysis Date: 12/20/2024	SeqNo: 2013611							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Total Organic Carbon	25.2	0.700	25.00	0	101	79.6	120					

Sample ID: 2412301-001BDUP	SampType: DUP	Units: mg/L		Prep Date: 12/20/2024	RunNo: 96516							
Client ID: BATCH	Batch ID: R96516			Analysis Date: 12/20/2024	SeqNo: 2013613							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Total Organic Carbon	15.7	0.700						15.40	1.62	20		

Sample ID: 2412301-001BMS	SampType: MS	Units: mg/L		Prep Date: 12/20/2024	RunNo: 96516							
Client ID: BATCH	Batch ID: R96516			Analysis Date: 12/20/2024	SeqNo: 2013614							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Total Organic Carbon	38.5	0.700	25.00	15.40	92.5	73.7	118					

Sample ID: 2412301-001BMSD	SampType: MSD	Units: mg/L		Prep Date: 12/20/2024	RunNo: 96516							
Client ID: BATCH	Batch ID: R96516			Analysis Date: 12/20/2024	SeqNo: 2013615							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Total Organic Carbon	36.2	0.700	25.00	15.40	83.4	73.7	118	38.51	6.07	30		

Work Order: 2412424
CLIENT: Friedman & Bruya
Project: 412352

QC SUMMARY REPORT
Total Organic Carbon by SM 5310C

Sample ID: 2412423-001ADUP		SampType: DUP			Units: mg/L		Prep Date: 12/21/2024			RunNo: 96516		
Client ID: BATCH		Batch ID: R96516			Analysis Date: 12/21/2024					SeqNo: 2013647		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Total Organic Carbon	1.50	0.700						1.497	0.134	20		

Sample ID: 2412423-001AMS		SampType: MS			Units: mg/L		Prep Date: 12/21/2024			RunNo: 96516		
Client ID: BATCH		Batch ID: R96516			Analysis Date: 12/21/2024				SeqNo: 2013648			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Total Organic Carbon	25.3	0.700	25.00	1.497	95.2	73.7	118					

Work Order: 2412424
CLIENT: Friedman & Bruya
Project: 412352

QC SUMMARY REPORT

Dissolved Gases by RSK-175

Sample ID: LCS-R96649		SampType: LCS			Units: ppmv		Prep Date: 12/30/2024			RunNo: 96649		
Client ID: LCSW		Batch ID: R96649			Analysis Date: 12/30/2024					SeqNo: 2016291		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Methane	1,110	0.00500	1,000	0	111	73.6	124				
Ethene	1,130	0.0100	1,000	0	113	76.3	122				
Ethane	1,140	0.0100	1,000	0	114	76.1	123				

Sample ID: MB-R96649		SampType: MBLK			Units: mg/L		Prep Date: 12/30/2024			RunNo: 96649		
Client ID: MBLKW		Batch ID: R96649			Analysis Date: 12/30/2024					SeqNo: 2016257		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Methane	ND	0.00500									
Ethene	ND	0.0100									
Ethane	ND	0.0100									

Sample ID: 2412380-001AREP		SampType: REP			Units: mg/L		Prep Date: 12/30/2024			RunNo: 96649		
Client ID: BATCH		Batch ID: R96649			Analysis Date: 12/30/2024					SeqNo: 2016246		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Methane	0.0583	0.00500						0.05992	2.74	30	
Ethene	ND	0.0100						0		30	
Ethane	ND	0.0100						0		30	

Client Name: FB

Work Order Number: 2412424

Logged by: Morgan Wilson

Date Received: 12/19/2024 12:45:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒
4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all items received at a temperature of >2°C to 6°C * Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. Is there headspace in the VOA vials? Yes ☐ No ☒ NA ☐
11. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
12. Does paperwork match bottle labels? Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all hold times (except field parameters, pH e.g.) able to be met? Yes ☒ No ☐

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via:

☐

eMail

☐

Phone

☐

Fax

☐

In Person

☐

Regarding:

Client Instructions:

17. Additional remarks:

Item Information

Item #	Temp °C
Sample	4.2

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

2412424

TURNAROUND TIME

PROJECT NAME/NO.

412352

E-592

☒ Standard TAT
☐ RUSH

Rush charges authorized by:

City, State, ZIP Seattle, WA 98108

Phone # (206) 285-8282 merdahl@friedmanandbrya.com

REMARKS

EIM

SAMPLE DISPOSAL

Dispose after 30 days

Will call with instructions

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: 	Michael Erdahl	Friedman & Bruya	12/14/24	03:10
Received by: 	Michael Erdahl	ATC	12/19/24	12:40
Relinquished by:				
Received by:				

Friedman & Bruya, Inc

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

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 Ave South
Seattle, WA 98108-2419
(206) 285-8282
office@friedmanandbruya.com
www.friedmanandbruya.com

January 3, 2025

Linnea Coleman, Project Manager
SoundEarth Strategies
1011 SW Klickitat Way, Suite 104
Seattle, WA 98134

Dear Ms Coleman:

Included are the results from the testing of material submitted on December 20, 2024 from the SOU_0731-004_20241220, F&BI 412415 project. There are 31 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Tom Cammarata
SOU0103R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on December 20, 2024 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0731-004_20241220, F&BI 412415 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
412415 -01	MW18-20241219
412415 -02	MW19-20241219
412415 -03	MW21-20241220
412415 -04	MW22-20241220
412415 -05	MW23-20241219
412415 -06	MW24-20241220
412415 -07	MW25-20241219
412415 -08	MW99-20241219
412415 -09	IW04-20241219
412415 -10	IW50-20241220
412415 -11	IW61-20241220
412415 -12	Trip Blank

The samples submitted for RSK major gases, sulfate, nitrate, alkalinity, total organic carbon, and ferrous iron testing were sent to Alliance Technical Group. The report is enclosed.

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/03/25

Date Received: 12/20/24

Project: SOU_0731-004_20241220, F&BI 412415

Date Extracted: 12/24/24

Date Analyzed: 12/24/24

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

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	Surrogate (% Recovery) (Limit 50-150)
MW21-20241220 412415-03	130	111
MW22-20241220 412415-04	120	106
Method Blank 04-3038 MB	<100	99

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/03/25

Date Received: 12/20/24

Project: SOU_0731-004_20241220, F&BI 412415

Date Extracted: 12/26/24

Date Analyzed: 12/26/24

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

Results Reported as ug/L (ppb)

<u>Sample ID</u>	<u>Diesel Range</u>	<u>Motor Oil Range</u>	<u>Surrogate</u>
Laboratory ID	(C ₁₀ -C ₂₅)	(C ₂₅ -C ₃₆)	(% Recovery)
			(Limit 50-150)
MW21-20241220	4,400 x	710 x	ip
412415-03			
MW22-20241220	4,500 x	840 x	ip
412415-04			
Method Blank	<50	<250	65
04-3190 MB			

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW18-20241219	Client:	SoundEarth Strategies
Date Received:	12/20/24	Project:	SOU_0731-004_20241220
Date Extracted:	12/26/24	Lab ID:	412415-01
Date Analyzed:	12/26/24	Data File:	122610.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	78	126
Toluene-d8	98	84	115
4-Bromofluorobenzene	103	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	1.5
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	3.6
Trichloroethene	<0.5
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW19-20241219	Client:	SoundEarth Strategies
Date Received:	12/20/24	Project:	SOU_0731-004_20241220
Date Extracted:	12/26/24	Lab ID:	412415-02
Date Analyzed:	12/26/24	Data File:	122608.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	105	78	126
Toluene-d8	105	84	115
4-Bromofluorobenzene	94	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	2.0
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	<0.5
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW21-20241220	Client:	SoundEarth Strategies
Date Received:	12/20/24	Project:	SOU_0731-004_20241220
Date Extracted:	12/26/24	Lab ID:	412415-03
Date Analyzed:	12/26/24	Data File:	122609.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	78	126
Toluene-d8	106	84	115
4-Bromofluorobenzene	96	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	1.8
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	11
Trichloroethene	<0.5
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW22-20241220	Client:	SoundEarth Strategies
Date Received:	12/20/24	Project:	SOU_0731-004_20241220
Date Extracted:	12/26/24	Lab ID:	412415-04
Date Analyzed:	12/26/24	Data File:	122615.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	82	78	126
Toluene-d8	98	84	115
4-Bromofluorobenzene	94	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	2.4
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	35
Trichloroethene	<0.5
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW23-20241219	Client:	SoundEarth Strategies
Date Received:	12/20/24	Project:	SOU_0731-004_20241220
Date Extracted:	12/26/24	Lab ID:	412415-05
Date Analyzed:	12/26/24	Data File:	122612.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	112	78	126
Toluene-d8	104	84	115
4-Bromofluorobenzene	105	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	1.8
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	7.7
Trichloroethene	<0.5
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW24-20241220	Client:	SoundEarth Strategies
Date Received:	12/20/24	Project:	SOU_0731-004_20241220
Date Extracted:	12/26/24	Lab ID:	412415-06
Date Analyzed:	12/26/24	Data File:	122607.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	78	126
Toluene-d8	103	84	115
4-Bromofluorobenzene	103	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	1.1
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	1.6
Trichloroethene	0.72
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW25-20241219	Client:	SoundEarth Strategies
Date Received:	12/20/24	Project:	SOU_0731-004_20241220
Date Extracted:	12/26/24	Lab ID:	412415-07
Date Analyzed:	12/26/24	Data File:	122613.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	78	126
Toluene-d8	98	84	115
4-Bromofluorobenzene	105	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	1.5
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	5.2
Trichloroethene	8.1
Tetrachloroethene	4.5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW99-20241219	Client:	SoundEarth Strategies
Date Received:	12/20/24	Project:	SOU_0731-004_20241220
Date Extracted:	12/26/24	Lab ID:	412415-08
Date Analyzed:	12/26/24	Data File:	122611.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	78	126
Toluene-d8	101	84	115
4-Bromofluorobenzene	108	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	1.6
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	5.1
Trichloroethene	7.8
Tetrachloroethene	4.3

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	IW04-20241219	Client:	SoundEarth Strategies
Date Received:	12/20/24	Project:	SOU_0731-004_20241220
Date Extracted:	12/26/24	Lab ID:	412415-09
Date Analyzed:	12/26/24	Data File:	122606.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	95	78	126
Toluene-d8	102	84	115
4-Bromofluorobenzene	89	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	<0.5
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	IW50-20241220	Client:	SoundEarth Strategies
Date Received:	12/20/24	Project:	SOU_0731-004_20241220
Date Extracted:	12/26/24	Lab ID:	412415-10
Date Analyzed:	12/26/24	Data File:	122614.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	112	78	126
Toluene-d8	103	84	115
4-Bromofluorobenzene	97	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	0.86
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	1.2
Trichloroethene	<0.5
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	IW61-20241220	Client:	SoundEarth Strategies
Date Received:	12/20/24	Project:	SOU_0731-004_20241220
Date Extracted:	12/26/24	Lab ID:	412415-11
Date Analyzed:	12/26/24	Data File:	122616.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	92	78	126
Toluene-d8	101	84	115
4-Bromofluorobenzene	103	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	3.1
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	43
Trichloroethene	<0.5
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0731-004_20241220
Date Extracted:	12/26/24	Lab ID:	04-3164 mb
Date Analyzed:	12/26/24	Data File:	122608.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	71	132
Toluene-d8	98	68	139
4-Bromofluorobenzene	105	62	136

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
trans-1,2-Dichloroethene	<1
cis-1,2-Dichloroethene	<1
Trichloroethene	<0.5
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW18-20241219	Client:	SoundEarth Strategies
Date Received:	12/20/24	Project:	SOU_0731-004_20241220
Date Extracted:	12/23/24	Lab ID:	412415-01 x200
Date Analyzed:	12/26/24	Data File:	412415-01 x200.054
Matrix:	Water	Instrument:	ICPMS3
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Iron	29,000
Manganese	7,800

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW19-20241219	Client:	SoundEarth Strategies
Date Received:	12/20/24	Project:	SOU_0731-004_20241220
Date Extracted:	12/23/24	Lab ID:	412415-02 x200
Date Analyzed:	12/26/24	Data File:	412415-02 x200.055
Matrix:	Water	Instrument:	ICPMS3
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Iron	23,000
Manganese	11,000

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW22-20241220	Client:	SoundEarth Strategies
Date Received:	12/20/24	Project:	SOU_0731-004_20241220
Date Extracted:	12/23/24	Lab ID:	412415-04 x200
Date Analyzed:	12/26/24	Data File:	412415-04 x200.056
Matrix:	Water	Instrument:	ICPMS3
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Iron	14,000
Manganese	13,000

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW23-20241219	Client:	SoundEarth Strategies
Date Received:	12/20/24	Project:	SOU_0731-004_20241220
Date Extracted:	12/23/24	Lab ID:	412415-05 x10
Date Analyzed:	12/26/24	Data File:	412415-05 x10.066
Matrix:	Water	Instrument:	ICPMS3
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Iron	5,900
------	-------

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW23-20241219	Client:	SoundEarth Strategies
Date Received:	12/20/24	Project:	SOU_0731-004_20241220
Date Extracted:	12/23/24	Lab ID:	412415-05 x1000
Date Analyzed:	12/27/24	Data File:	412415-05 x1000.039
Matrix:	Water	Instrument:	ICPMS3
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Manganese	12,000
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW24-20241220	Client:	SoundEarth Strategies
Date Received:	12/20/24	Project:	SOU_0731-004_20241220
Date Extracted:	12/23/24	Lab ID:	412415-06 x100
Date Analyzed:	12/26/24	Data File:	412415-06 x100.058
Matrix:	Water	Instrument:	ICPMS3
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Iron	6,800
Manganese	9,700

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW25-20241219	Client:	SoundEarth Strategies
Date Received:	12/20/24	Project:	SOU_0731-004_20241220
Date Extracted:	12/23/24	Lab ID:	412415-07 x50
Date Analyzed:	12/26/24	Data File:	412415-07 x50.059
Matrix:	Water	Instrument:	ICPMS3
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Iron	5,700
Manganese	5,200

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	IW04-20241219	Client:	SoundEarth Strategies
Date Received:	12/20/24	Project:	SOU_0731-004_20241220
Date Extracted:	12/23/24	Lab ID:	412415-09 x200
Date Analyzed:	12/26/24	Data File:	412415-09 x200.063
Matrix:	Water	Instrument:	ICPMS3
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Iron	19,000
Manganese	5,600

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	IW50-20241220	Client:	SoundEarth Strategies
Date Received:	12/20/24	Project:	SOU_0731-004_20241220
Date Extracted:	12/23/24	Lab ID:	412415-10 x200
Date Analyzed:	12/26/24	Data File:	412415-10 x200.064
Matrix:	Water	Instrument:	ICPMS3
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Iron	19,000
Manganese	12,000

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	IW61-20241220	Client:	SoundEarth Strategies
Date Received:	12/20/24	Project:	SOU_0731-004_20241220
Date Extracted:	12/23/24	Lab ID:	412415-11 x200
Date Analyzed:	12/26/24	Data File:	412415-11 x200.065
Matrix:	Water	Instrument:	ICPMS3
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Iron	16,000
Manganese	14,000

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	NA	Project:	SOU_0731-004_20241220
Date Extracted:	12/23/24	Lab ID:	I4-1118 mb
Date Analyzed:	12/23/24	Data File:	I4-1118 mb.069
Matrix:	Water	Instrument:	ICPMS3
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Iron	<50
Manganese	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/03/25

Date Received: 12/20/24

Project: SOU_0731-004_20241220, F&BI 412415

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

Laboratory Code: (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Gasoline	ug/L (ppb)	130	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	ug/L (ppb)	1,000	110	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/03/25

Date Received: 12/20/24

Project: SOU_0731-004_20241220, F&BI 412415

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	84	92	65-151	9

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/03/25

Date Received: 12/20/24

Project: SOU_0731-004_20241220, F&BI 412415

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	10	94	93	43-149	1
trans-1,2-Dichloroethene	ug/L (ppb)	10	108	107	70-130	1
cis-1,2-Dichloroethene	ug/L (ppb)	10	102	102	70-130	0
Trichloroethene	ug/L (ppb)	10	103	103	70-130	0
Tetrachloroethene	ug/L (ppb)	10	107	111	70-130	4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/03/25

Date Received: 12/20/24

Project: SOU_0731-004_20241220, F&BI 412415

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR TOTAL METALS USING EPA METHOD 200.8**

Laboratory Code: 412362-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Iron	ug/L (ppb)	100	161	91 b	95 b	70-130	4 b
Manganese	ug/L (ppb)	10	11.0	95 b	97 b	70-130	2 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Iron	ug/L (ppb)	100	91	85-115
Manganese	ug/L (ppb)	10	97	85-115

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

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

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

ca - The calibration results for the analyte were outside of acceptance criteria, 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 between the method detection limit and the lowest calibration point. 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.

412415

SAMPLE CHAIN OF CUSTODY

12/20/24

14/04/24

Send Report To Linnea Coleman, Tom Cammarata

Company SoundEarth Strategies

Address 1011 Southwest Klickitat Way, Suite 212

City, State, ZIP Seattle, WA 98134

SAMPLERS (signature)		PROJECT NAME/NO.		PO #
		Troy Laundry Property		0731-004
REMARKS				EIM Y
*cVOCs = PCE, TCE, Cis/Trans-DCE, and Vinyl Chloride Reporting Limit = 0.2 ug/L				

Page # of	TURNAROUND TIME
14	Standard (2 Weeks)
Rush charges authorized by:	
SAMPLE DISPOSAL	
⊗ Dispose after 30 days	
Return samples	
Will call with instructions	

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	cVOCs * by EPA 8260	GRPH by NWTPH-Gx	DRPH/ORPH by NWTPH-Dx	Methane, Ethane, Ethene by RSK175	Sulfate, Nitrate, Alkalinity by SM1845/SM2320B	Total Fe and Mn by EPA 200.8	Fe 2+ by SM 3500	TOC	Notes
MW18-20241219	MW18	-	01 H ⁺	12/19/24	1105	1420	10	X			X	X	X	X	X	
MW19-20241219	MW19	-	02 A ⁺	12/19/24	1300		9	X			X	X	X	X	X	
MW21-20241220	MW21	-	03 A ⁺	12/20/24	0910		9	X	X		X	X	X	X	X	
MW22-20241220	MW22	-	04 A ⁺	12/20/24	1040		12	X	X	X	X	X	X	X	X	
MW23-20241219	MW23	-	05 A ⁺	12/19/24	1326		10	X			X	X	X	X	X	
MW24-20241220	MW24	-	06 A ⁺	12/20/24	1151		10	X			X	X	X	X	X	
MW25-20241219	MW25	-	07 A ⁺	12/19/24	1402		10	X			X	X	X	X	X	
MW99-20241219	MW99	-	08 H ⁺	12/19/24	1200		3	X						X	X	
IW04-20241219	IW04	-	09 A ⁺	12/19/24	0940		7	X						X	X	
IW50-20241220	IW50	-	10 A ⁺	12/20/24	1205		10	X			X	X	X	X	X	
IW61-20241220	IW61	-	11 A ⁺	12/20/24	1355		10	X			X	X	X	X	X	
Trip Blank		-	12 A ⁺	-	-	420	2									Added at lab 12/23/24

Friedman & Bruya, Inc.

5500 4th Avenue South

Seattle, WA 98108

Ph. (206) 285-8282

Fax (206) 283-5044

SIGNATURE		PRINT NAME		COMPANY		DATE		TIME	
		Linnea Coleman		SES		12/20/24		1535	
Relinquished by:		Michael Eckli		FGR		12/20/24		1535	
Received by:									

Samples received at 3

Samples received at 3

SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT # 412415 CLIENT Sand INITIALS/DATE: ME 12/20/24

If custody seals are present on cooler, are they intact? ☒ NA ☐ YES ☐ NO

Cooler/Sample temperature 3 °C
Thermometer ID: Fluke 96312917

Were samples received on ice/cold packs? ☒ YES ☐ NO

How did samples arrive?
☒ Over the Counter ☐ Picked up by F&BI ☐ FedEx/UPS/GSO

Is there a Chain-of-Custody* (COC)? ☒ YES ☐ NO Initials/Date: NA 12/23
*or other representative documents, letters, and/or shipping memos

Number of days samples have been sitting prior to receipt at laboratory > 1 days

Are the samples clearly identified? (explain "no" answer below) ☒ YES ☐ NO

Were all sample containers received intact (i.e. not broken, leaking etc.)? (explain "no" answer below) ☒ YES ☐ NO

Were appropriate sample containers used? ☒ YES ☐ NO ☐ Unknown

If custody seals are present on samples, are they intact? ☒ NA ☐ YES ☐ NO

Are samples requiring no headspace, headspace free? ☐ NA ☒ YES ☐ NO

Is the following information provided on the COC, and does it match the sample label? (explain "no" answer below)

Sample ID's	☒ Yes ☐ No	☐ Not on COC/label
Date Sampled	☒ Yes ☐ No	☐ Not on COC/label
Time Sampled	☒ Yes ☐ No	☐ Not on COC/label
# of Containers	☐ Yes ☒ No	<u>Added Trip Blank to COC</u>
Relinquished	☒ Yes ☐ No	
Requested analysis	☒ Yes ☐ On Hold	

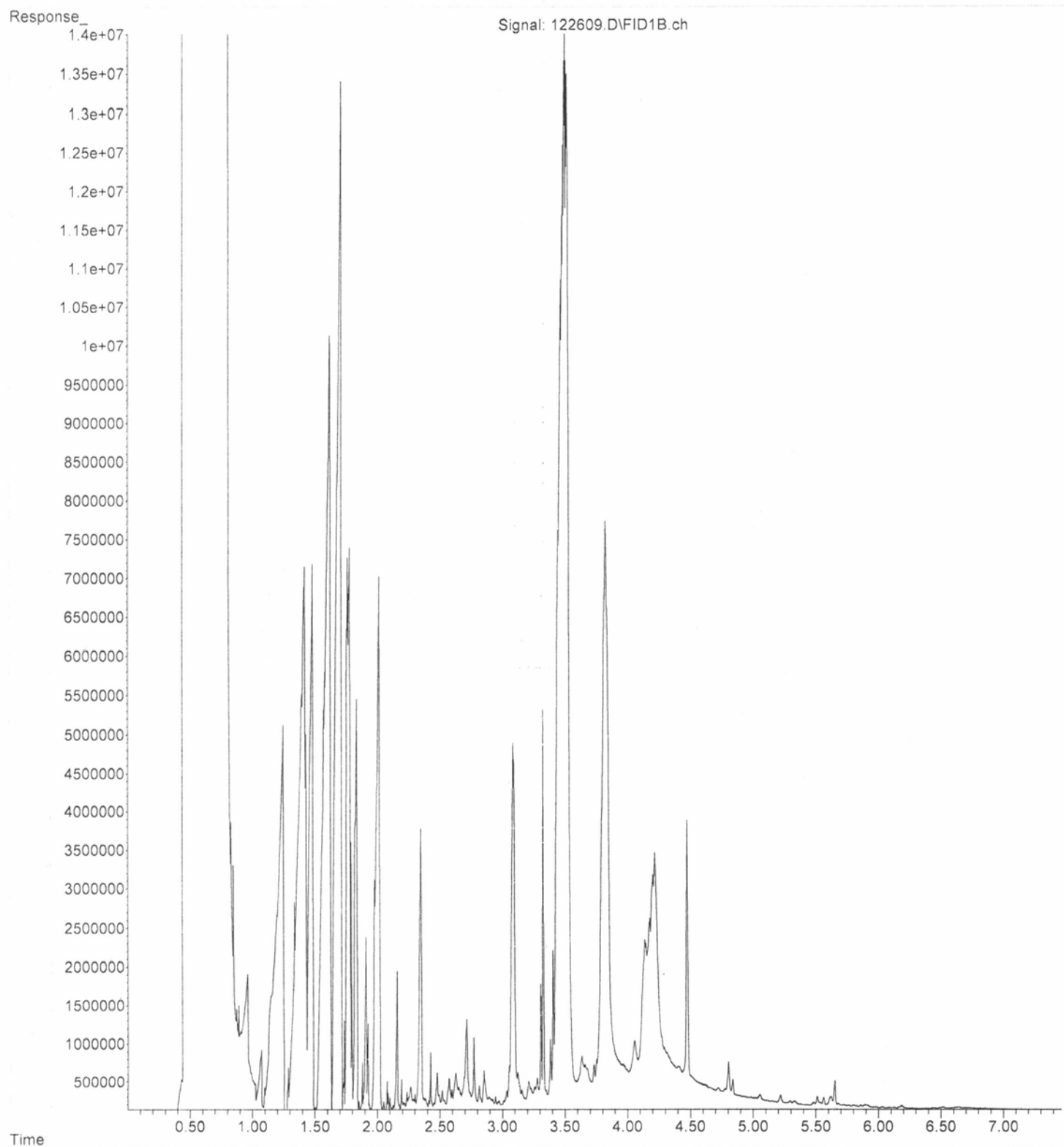
Other comments (use a separate page if needed)

Air Samples: Were any additional canisters/tubes received? ☒ NA ☐ YES ☐ NO

Number of unused TO15 canisters _____ Number of unused TO17 tubes _____

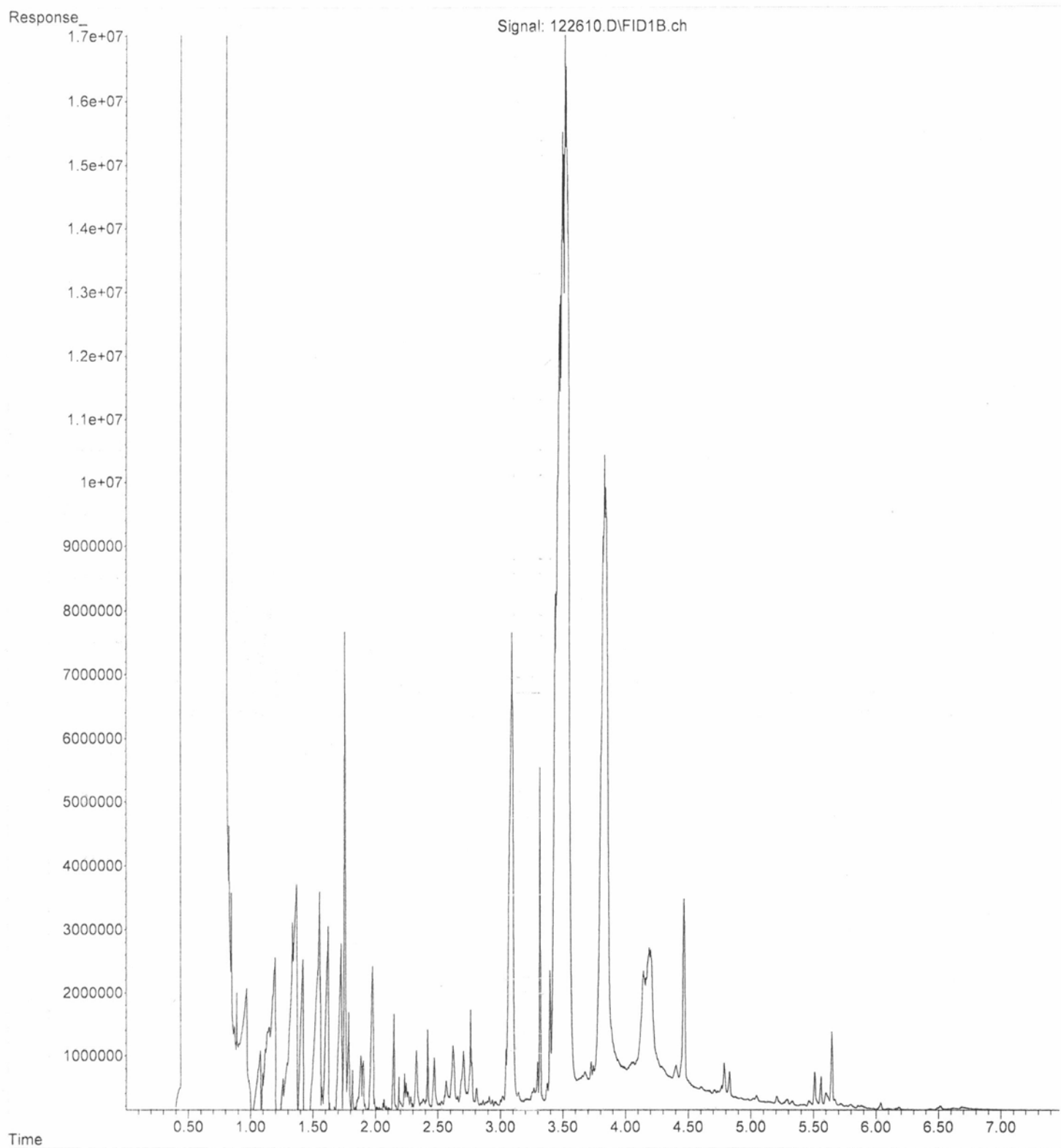
File : P:\Proc_GC14\12-26-24\122609.D
Operator : JH
Acquired : 26 Dec 2024 01:31 pm using AcqMethod DX.M
Instrument : GC14
Sample Name: 412415-03
Misc Info :
Vial Number: 10

ERR



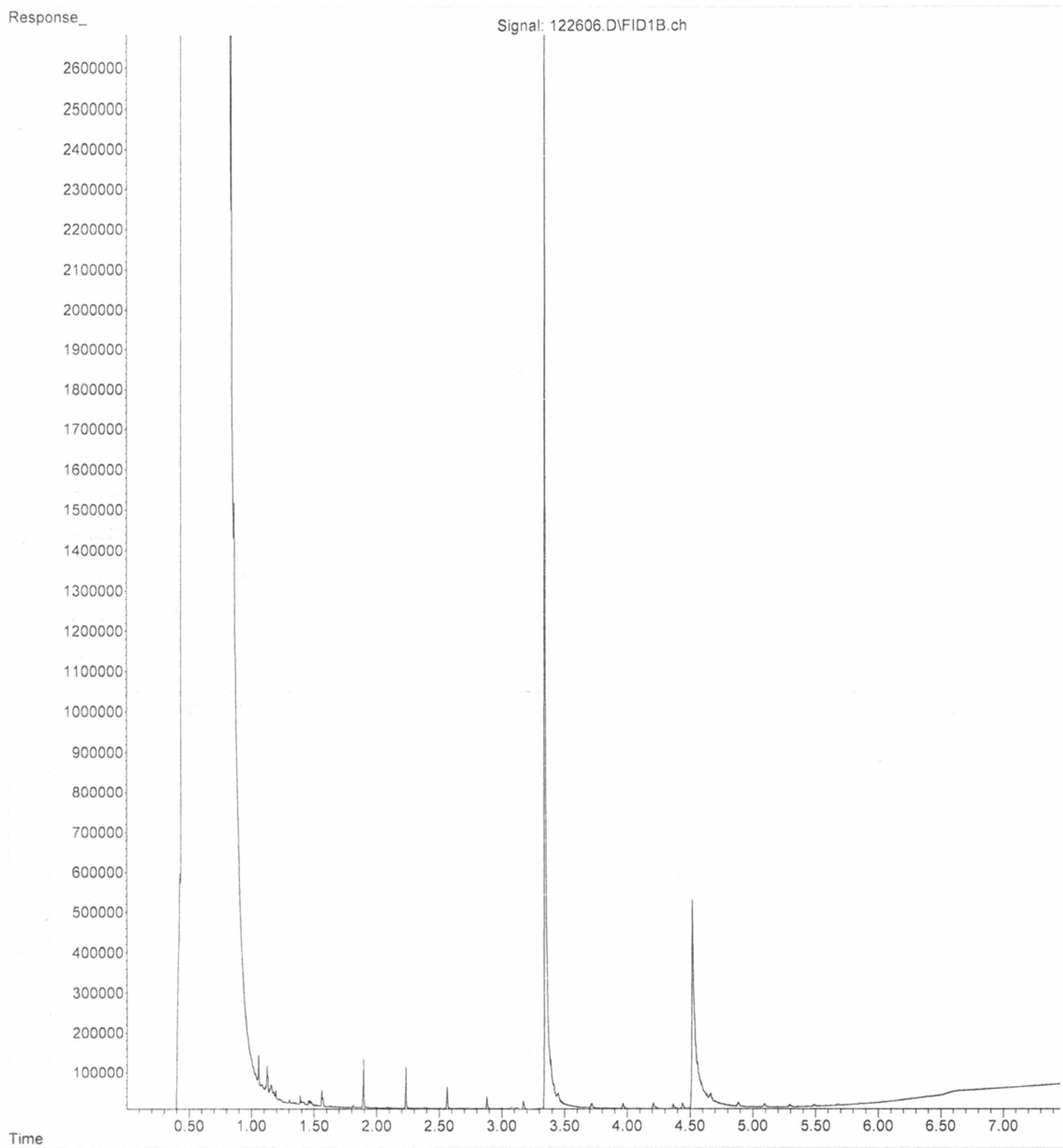
File : P:\Proc_GC14\12-26-24\122610.D
Operator : JH
Acquired : 26 Dec 2024 01:43 pm using AcqMethod DX.M
Instrument : GC14
Sample Name: 412415-04
Misc Info :
Vial Number: 11

ERR



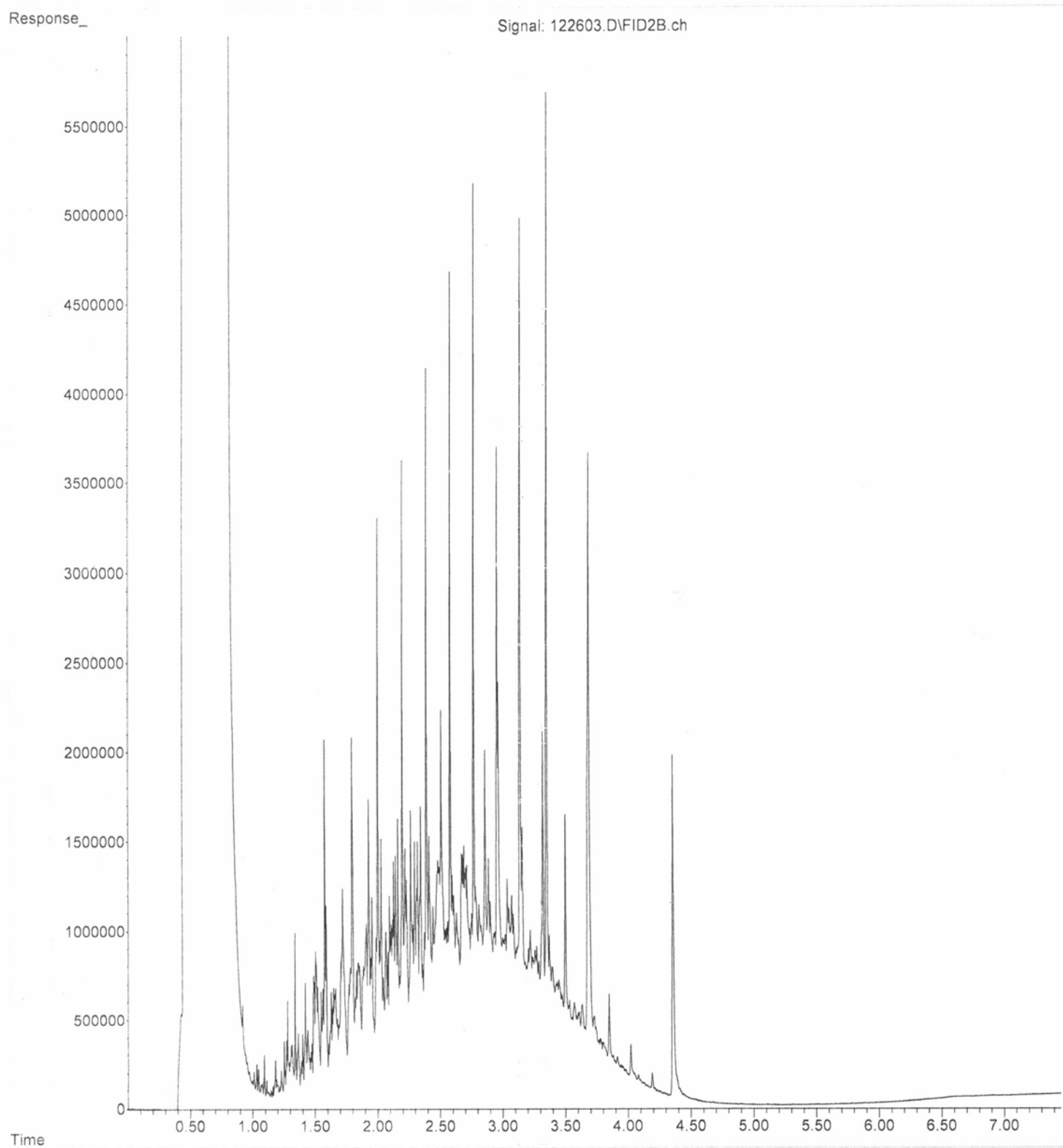
File : P:\Proc_GC14\12-26-24\122606.D
Operator : JH
Acquired : 26 Dec 2024 12:56 pm using AcqMethod DX.M
Instrument : GC14
Sample Name: 04-3190 mb
Misc Info :
Vial Number: 8

ERR



File : P:\Proc_GC14\12-26-24\122603.D
Operator : TL
Acquired : 26 Dec 2024 07:25 am using AcqMethod DX.M
Instrument : GC14
Sample Name: 500 Dx 74-61B
Misc Info :
Vial Number: 3

ERR



Friedman & Bruya

Michael Erdahl
5500 4th Ave S
Seattle, WA 98108

RE: 412415,

Work Order Number: 2412476

January 02, 2025

Attention Michael Erdahl:

Fremont Analytical, Inc, an Alliance Technical Group company, received 10 sample(s) on 12/23/2024 for the analyses presented in the following report.

Dissolved Gases by RSK-175

Ferrous Iron by SM3500-Fe B

Ion Chromatography by EPA 300.0

Total Alkalinity by EPA 310.2

Total Organic Carbon by SM 5310C

All analyses were performed according to our accredited Quality Assurance program. Please contact the laboratory if you should have any questions about the results.

Alliance Technical Group is committed to accuracy, speed, and customer service. Thank you for choosing Alliance Technical Group's Seattle laboratory team for your analytical needs. We appreciate this opportunity to serve you!

Sincerely,



Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.4 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Original



CLIENT: Friedman & Bruya
Project: 412415
Work Order: 2412476

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2412476-001	MW18-20241219	12/19/2024 11:05 AM	12/23/2024 10:55 AM
2412476-002	MW19-20241219	12/19/2024 1:00 PM	12/23/2024 10:55 AM
2412476-003	MW21-20241220	12/20/2024 9:10 AM	12/23/2024 10:55 AM
2412476-004	MW22-20241220	12/20/2024 10:40 AM	12/23/2024 10:55 AM
2412476-005	MW23-20241219	12/19/2024 1:26 PM	12/23/2024 10:55 AM
2412476-006	MW24-20241220	12/20/2024 11:51 AM	12/23/2024 10:55 AM
2412476-007	MW25-20241219	12/19/2024 2:02 PM	12/23/2024 10:55 AM
2412476-008	IW04-20241219	12/19/2024 9:40 AM	12/23/2024 10:55 AM
2412476-009	IW50-20241220	12/20/2024 12:05 PM	12/23/2024 10:55 AM
2412476-010	IW61-20241220	12/20/2024 1:55 PM	12/23/2024 10:55 AM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Friedman & Bruya

Project: 412415

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate

CLIENT: Friedman & Bruya
Project: 412415

Lab ID: 2412476-001

Collection Date: 12/19/2024 11:05:00 AM

Client Sample ID: MW18-20241219

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Dissolved Gases by RSK-175

Batch ID: R96720 Analyst: CO

Methane	9.42	0.250	D	mg/L	50	1/2/2025 1:12:00 PM
Ethene	ND	0.0100		mg/L	1	1/2/2025 12:04:00 PM
Ethane	ND	0.0100		mg/L	1	1/2/2025 12:04:00 PM

Ion Chromatography by EPA 300.0

Batch ID: 46260 Analyst: SS

Nitrate (as N)	ND	0.150	H	mg/L	1	12/26/2024 11:58:00 AM
Sulfate	2.09	1.00		mg/L	1	12/26/2024 11:58:00 AM

Total Organic Carbon by SM 5310C

Batch ID: R96697 Analyst: SS

Total Organic Carbon	3.97	0.700		mg/L	1	12/30/2024 8:18:00 PM
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Total Alkalinity by EPA 310.2

Batch ID: R96728 Analyst: SS

Alkalinity, Total (As CaCO3)	430	50.0	D	mg/L	20	1/2/2025 2:54:00 PM
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Ferrous Iron by SM3500-Fe B

Batch ID: R96518 Analyst: BB

Ferrous Iron	28.1	3.75	DH	mg/L	25	12/23/2024 11:24:03 AM
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CLIENT: Friedman & Bruya
Project: 412415

Lab ID: 2412476-002
Client Sample ID: MW19-20241219

Collection Date: 12/19/2024 1:00:00 PM
Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Dissolved Gases by RSK-175

Batch ID: R96720 Analyst: CO

Methane	9.02	0.250	D	mg/L	50	1/2/2025 1:32:00 PM
Ethene	ND	0.0100		mg/L	1	1/2/2025 12:10:00 PM
Ethane	ND	0.0100		mg/L	1	1/2/2025 12:10:00 PM

Ion Chromatography by EPA 300.0

Batch ID: 46260 Analyst: SS

Nitrate (as N)	ND	0.300	DH	mg/L	2	12/26/2024 12:11:00 PM
Sulfate	ND	2.00	D	mg/L	2	12/26/2024 12:11:00 PM

Total Alkalinity by EPA 310.2

Batch ID: R96728 Analyst: SS

Alkalinity, Total (As CaCO ₃)	423	50.0	D	mg/L	20	1/2/2025 3:01:00 PM
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Ferrous Iron by SM3500-Fe B

Batch ID: R96518 Analyst: BB

Ferrous Iron	22.2	3.75	DH	mg/L	25	12/23/2024 11:24:03 AM
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Lab ID: 2412476-003
Client Sample ID: MW21-20241220

Collection Date: 12/20/2024 9:10:00 AM
Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Dissolved Gases by RSK-175

Batch ID: R96720 Analyst: CO

Methane	5.26	0.100	D	mg/L	20	1/2/2025 1:35:00 PM
Ethene	ND	0.0100		mg/L	1	1/2/2025 12:13:00 PM
Ethane	ND	0.0100		mg/L	1	1/2/2025 12:13:00 PM

Total Organic Carbon by SM 5310C

Batch ID: R96697 Analyst: SS

Total Organic Carbon	103	7.00	D	mg/L	10	12/31/2024 3:54:00 PM
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CLIENT: Friedman & Bruya
Project: 412415

Lab ID: 2412476-004
Client Sample ID: MW22-20241220

Collection Date: 12/20/2024 10:40:00 AM
Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Dissolved Gases by RSK-175</u>				Batch ID: R96720		Analyst: CO
Methane	8.56	0.250	D	mg/L	50	1/2/2025 1:37:00 PM
Ethene	ND	0.0100		mg/L	1	1/2/2025 12:15:00 PM
Ethane	ND	0.0100		mg/L	1	1/2/2025 12:15:00 PM
<u>Ion Chromatography by EPA 300.0</u>				Batch ID: 46260		Analyst: SS
Nitrate (as N)	ND	0.150	H	mg/L	1	12/26/2024 12:24:00 PM
Sulfate	ND	1.00		mg/L	1	12/26/2024 12:24:00 PM
<u>Total Organic Carbon by SM 5310C</u>				Batch ID: R96697		Analyst: SS
Total Organic Carbon	85.1	7.00	D	mg/L	10	12/31/2024 4:25:00 PM
<u>Total Alkalinity by EPA 310.2</u>				Batch ID: R96728		Analyst: SS
Alkalinity, Total (As CaCO ₃)	528	125	D	mg/L	50	1/2/2025 4:05:00 PM
<u>Ferrous Iron by SM3500-Fe B</u>				Batch ID: R96518		Analyst: BB
Ferrous Iron	15.5	1.50	DH	mg/L	10	12/23/2024 11:24:03 AM

CLIENT: Friedman & Bruya
Project: 412415

Lab ID: 2412476-005
Client Sample ID: MW23-20241219

Collection Date: 12/19/2024 1:26:00 PM
Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Dissolved Gases by RSK-175</u>				Batch ID: R96720		Analyst: CO
Methane	10.0	0.250	D	mg/L	50	1/2/2025 1:39:00 PM
Ethene	ND	0.0100		mg/L	1	1/2/2025 12:18:00 PM
Ethane	ND	0.0100		mg/L	1	1/2/2025 12:18:00 PM
<u>Ion Chromatography by EPA 300.0</u>				Batch ID: 46260		Analyst: SS
Nitrate (as N)	ND	0.150	H	mg/L	1	12/26/2024 12:37:00 PM
Sulfate	1.91	1.00		mg/L	1	12/26/2024 12:37:00 PM
<u>Total Organic Carbon by SM 5310C</u>				Batch ID: R96697		Analyst: SS
Total Organic Carbon	3.40	0.700		mg/L	1	12/30/2024 9:29:00 PM
<u>Total Alkalinity by EPA 310.2</u>				Batch ID: R96728		Analyst: SS
Alkalinity, Total (As CaCO ₃)	491	50.0	D	mg/L	20	1/2/2025 3:15:00 PM
<u>Ferrous Iron by SM3500-Fe B</u>				Batch ID: R96518		Analyst: BB
Ferrous Iron	6.05	1.50	DH	mg/L	10	12/23/2024 11:24:03 AM

CLIENT: Friedman & Bruya
Project: 412415

Lab ID: 2412476-006
Client Sample ID: MW24-20241220

Collection Date: 12/20/2024 11:51:00 AM
Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Dissolved Gases by RSK-175</u>				Batch ID: R96720		Analyst: CO
Methane	7.70	0.250	D	mg/L	50	1/2/2025 2:29:00 PM
Ethene	ND	0.0100		mg/L	1	1/2/2025 12:22:00 PM
Ethane	ND	0.0100		mg/L	1	1/2/2025 12:22:00 PM
<u>Ion Chromatography by EPA 300.0</u>				Batch ID: 46260		Analyst: SS
Nitrate (as N)	ND	0.150	H	mg/L	1	12/26/2024 12:49:00 PM
Sulfate	3.06	1.00		mg/L	1	12/26/2024 12:49:00 PM
<u>Total Organic Carbon by SM 5310C</u>				Batch ID: R96697		Analyst: SS
Total Organic Carbon	3.07	0.700		mg/L	1	12/30/2024 9:58:00 PM
<u>Total Alkalinity by EPA 310.2</u>				Batch ID: R96728		Analyst: SS
Alkalinity, Total (As CaCO ₃)	435	75.0	D	mg/L	30	1/2/2025 4:24:00 PM
<u>Ferrous Iron by SM3500-Fe B</u>				Batch ID: R96518		Analyst: BB
Ferrous Iron	14.8	3.75	DH	mg/L	25	12/23/2024 11:24:03 AM

CLIENT: Friedman & Bruya
Project: 412415

Lab ID: 2412476-007

Collection Date: 12/19/2024 2:02:00 PM

Client Sample ID: MW25-20241219

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Dissolved Gases by RSK-175

Batch ID: R96720 Analyst: CO

Methane	9.72	0.250	D	mg/L	50	1/2/2025 2:15:00 PM
Ethene	ND	0.0100		mg/L	1	1/2/2025 12:25:00 PM
Ethane	ND	0.0100		mg/L	1	1/2/2025 12:25:00 PM

Ion Chromatography by EPA 300.0

Batch ID: 46260 Analyst: SS

Nitrate (as N)	ND	0.150	H	mg/L	1	12/26/2024 1:02:00 PM
Sulfate	36.0	1.00		mg/L	1	12/26/2024 1:02:00 PM

Total Organic Carbon by SM 5310C

Batch ID: R96697 Analyst: SS

Total Organic Carbon	1.37	0.700		mg/L	1	12/30/2024 10:26:00 PM
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Total Alkalinity by EPA 310.2

Batch ID: R96728 Analyst: SS

Alkalinity, Total (As CaCO ₃)	237	25.0	D	mg/L	10	1/2/2025 4:16:00 PM
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Ferrous Iron by SM3500-Fe B

Batch ID: R96518 Analyst: BB

Ferrous Iron	6.40	3.75	DH	mg/L	25	12/23/2024 11:24:03 AM
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CLIENT: Friedman & Bruya
Project: 412415

Lab ID: 2412476-008
Client Sample ID: IW04-20241219

Collection Date: 12/19/2024 9:40:00 AM
Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Ion Chromatography by EPA 300.0</u>				Batch ID: 46260		Analyst: SS
Nitrate (as N)	ND	0.150	H	mg/L	1	12/26/2024 1:15:00 PM
Sulfate	6.25	1.00		mg/L	1	12/26/2024 1:15:00 PM
<u>Total Organic Carbon by SM 5310C</u>				Batch ID: R96697		Analyst: SS
Total Organic Carbon	16.6	0.700		mg/L	1	12/30/2024 10:55:00 PM
<u>Total Alkalinity by EPA 310.2</u>				Batch ID: R96728		Analyst: SS
Alkalinity, Total (As CaCO ₃)	216	25.0	D	mg/L	10	1/2/2025 4:21:00 PM
<u>Ferrous Iron by SM3500-Fe B</u>				Batch ID: R96518		Analyst: BB
Ferrous Iron	20.3	3.75	DH	mg/L	25	12/23/2024 11:24:03 AM

CLIENT: Friedman & Bruya
Project: 412415

Lab ID: 2412476-009
Client Sample ID: IW50-20241220

Collection Date: 12/20/2024 12:05:00 PM
Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Dissolved Gases by RSK-175</u>				Batch ID: R96720		Analyst: CO
Methane	5.91	0.250	D	mg/L	50	1/2/2025 1:57:00 PM
Ethene	ND	0.0100		mg/L	1	1/2/2025 12:27:00 PM
Ethane	ND	0.0100		mg/L	1	1/2/2025 12:27:00 PM
<u>Ion Chromatography by EPA 300.0</u>				Batch ID: 46260		Analyst: SS
Nitrate (as N)	ND	0.150	H	mg/L	1	12/26/2024 1:27:00 PM
Sulfate	ND	1.00		mg/L	1	12/26/2024 1:27:00 PM
<u>Total Organic Carbon by SM 5310C</u>				Batch ID: R96697		Analyst: SS
Total Organic Carbon	16.6	0.700		mg/L	1	12/30/2024 11:23:00 PM
<u>Total Alkalinity by EPA 310.2</u>				Batch ID: R96728		Analyst: SS
Alkalinity, Total (As CaCO ₃)	614	125	D	mg/L	50	1/2/2025 4:30:00 PM
<u>Ferrous Iron by SM3500-Fe B</u>				Batch ID: R96518		Analyst: BB
Ferrous Iron	19.7	3.75	DH	mg/L	25	12/23/2024 11:24:03 AM

CLIENT: Friedman & Bruya
Project: 412415

Lab ID: 2412476-010

Collection Date: 12/20/2024 1:55:00 PM

Client Sample ID: IW61-20241220

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Dissolved Gases by RSK-175

Batch ID: R96720 Analyst: CO

Methane	8.93	0.250	D	mg/L	50	1/2/2025 2:01:00 PM
Ethene	ND	0.0100		mg/L	1	1/2/2025 12:34:00 PM
Ethane	ND	0.0100		mg/L	1	1/2/2025 12:34:00 PM

Ion Chromatography by EPA 300.0

Batch ID: 46260 Analyst: SS

Nitrate (as N)	ND	0.150	H	mg/L	1	12/26/2024 1:40:00 PM
Sulfate	ND	1.00		mg/L	1	12/26/2024 1:40:00 PM

Total Organic Carbon by SM 5310C

Batch ID: R96697 Analyst: SS

Total Organic Carbon	55.4	7.00	D	mg/L	10	12/31/2024 4:53:00 PM
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Total Alkalinity by EPA 310.2

Batch ID: R96728 Analyst: SS

Alkalinity, Total (As CaCO ₃)	687	125	D	mg/L	50	1/2/2025 4:37:00 PM
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Ferrous Iron by SM3500-Fe B

Batch ID: R96518 Analyst: BB

Ferrous Iron	15.8	3.75	DH	mg/L	25	12/23/2024 11:24:03 AM
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Work Order: 2412476
CLIENT: Friedman & Bruya
Project: 412415

QC SUMMARY REPORT

Total Alkalinity by EPA 310.2

Sample ID: LCS	SampType: LCS	Units: mg/L		Prep Date: 1/2/2025	RunNo: 96728							
Client ID: LCSW	Batch ID: R96728			Analysis Date: 1/2/2025	SeqNo: 2017608							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Alkalinity, Total (As CaCO ₃)	27.8	2.50	25.00	0	111	83.8	121					

Sample ID: MB	SampType: MBLK	Units: mg/L		Prep Date: 1/2/2025	RunNo: 96728							
Client ID: MBLKW	Batch ID: R96728			Analysis Date: 1/2/2025	SeqNo: 2017610							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Alkalinity, Total (As CaCO ₃)	ND	2.50										

Sample ID: 2412476-007BDUP	SampType: DUP	Units: mg/L		Prep Date: 1/2/2025	RunNo: 96728							
Client ID: MW25-20241219	Batch ID: R96728			Analysis Date: 1/2/2025	SeqNo: 2017620							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Alkalinity, Total (As CaCO ₃)	230	25.0						237.0	3.00	20	D	

Work Order: 2412476
CLIENT: Friedman & Bruya
Project: 412415

QC SUMMARY REPORT

Ferrous Iron by SM3500-Fe B

Sample ID: MB-R96518	SampType: MBLK	Units: mg/L				Prep Date: 12/23/2024			RunNo: 96518		
Client ID: MBLKW	Batch ID: R96518					Analysis Date: 12/23/2024			SeqNo: 2013667		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	ND	0.150									

Sample ID: LCS-R96518	SampType: LCS	Units: mg/L				Prep Date: 12/23/2024			RunNo: 96518		
Client ID: LCSW	Batch ID: R96518					Analysis Date: 12/23/2024			SeqNo: 2013668		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	0.376	0.150	0.4000	0	94.1	85	115				

Sample ID: 2412476-001CDUP	SampType: DUP	Units: mg/L				Prep Date: 12/23/2024			RunNo: 96518		
Client ID: MW18-20241219	Batch ID: R96518					Analysis Date: 12/23/2024			SeqNo: 2013670		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	29.1	3.75						28.14	3.25	20	DH

Sample ID: 2412476-001CMS	SampType: MS	Units: mg/L				Prep Date: 12/23/2024			RunNo: 96518		
Client ID: MW18-20241219	Batch ID: R96518					Analysis Date: 12/23/2024			SeqNo: 2013671		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	39.4	3.75	10.00	28.14	113	70	130				DH

Sample ID: 2412476-001CMSD	SampType: MSD	Units: mg/L				Prep Date: 12/23/2024			RunNo: 96518		
Client ID: MW18-20241219	Batch ID: R96518					Analysis Date: 12/23/2024			SeqNo: 2013672		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	39.7	3.75	10.00	28.14	116	70	130	39.44	0.723	30	DH

Work Order: 2412476
CLIENT: Friedman & Bruya
Project: 412415

QC SUMMARY REPORT

Ion Chromatography by EPA 300.0

Sample ID: MB-46260		SampType: MBLK		Units: mg/L		Prep Date: 12/23/2024			RunNo: 96604			
Client ID: MBLKW		Batch ID: 46260					Analysis Date: 12/23/2024			SeqNo: 2015518		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Nitrate (as N)	ND	0.150										
Sulfate	ND	1.00										

Sample ID: LCS-46260		SampType: LCS		Units: mg/L		Prep Date: 12/23/2024			RunNo: 96604			
Client ID: LCSW		Batch ID: 46260					Analysis Date: 12/23/2024			SeqNo: 2015520		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Nitrate (as N)	2.18	0.150	2.259	0	96.5	90	110					
Sulfate	9.52	1.00	10.00	0	95.2	90	110					

Sample ID: 2412476-001BDUP		SampType: DUP		Units: mg/L		Prep Date: 12/23/2024			RunNo: 96604			
Client ID: MW18-20241219		Batch ID: 46260					Analysis Date: 12/23/2024			SeqNo: 2015526		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Nitrate (as N)	ND	1.50						0		20	D	
Sulfate	ND	10.0						0		20	D	

Sample ID: 2412476-001BMS		SampType: MS		Units: mg/L		Prep Date: 12/23/2024			RunNo: 96604			
Client ID: MW18-20241219		Batch ID: 46260					Analysis Date: 12/23/2024			SeqNo: 2015527		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Nitrate (as N)	22.0	1.50	22.59	0	97.6	80	120				D	
Sulfate	97.8	10.0	100.0	3.450	94.3	80	120				D	

Sample ID: 2412476-001BMSD		SampType: MSD		Units: mg/L		Prep Date: 12/23/2024			RunNo: 96604			
Client ID: MW18-20241219		Batch ID: 46260					Analysis Date: 12/23/2024			SeqNo: 2015529		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Nitrate (as N)	22.1	1.50	22.59	0	97.8	80	120	22.05	0.181	20	D	
Sulfate	98.2	10.0	100.0	3.450	94.7	80	120	97.76	0.408	20	D	

Work Order: 2412476
CLIENT: Friedman & Bruya
Project: 412415

QC SUMMARY REPORT
Ion Chromatography by EPA 300.0

Sample ID: 2412476-001BMSD		SampType: MSD		Units: mg/L		Prep Date: 12/23/2024			RunNo: 96604		
Client ID: MW18-20241219		Batch ID: 46260		Analysis Date: 12/23/2024						SeqNo: 2015529	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Work Order: 2412476
CLIENT: Friedman & Bruya
Project: 412415

QC SUMMARY REPORT

Total Organic Carbon by SM 5310C

Sample ID: MB		SampType: MBLK			Units: mg/L		Prep Date: 12/30/2024			RunNo: 96697		
Client ID: MBLKW		Batch ID: R96697			Analysis Date: 12/30/2024					SeqNo: 2017026		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Total Organic Carbon	ND	0.700									
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Sample ID: LCS		SampType: LCS			Units: mg/L		Prep Date: 12/30/2024			RunNo: 96697		
Client ID: LCSW		Batch ID: R96697			Analysis Date: 12/30/2024					SeqNo: 2017027		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Total Organic Carbon	24.6	0.700	25.00	0	98.4	79.6	120				
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Sample ID: 2412475-001ADUP		SampType: DUP			Units: mg/L		Prep Date: 12/30/2024			RunNo: 96697		
Client ID: BATCH		Batch ID: R96697			Analysis Date: 12/30/2024					SeqNo: 2017029		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Total Organic Carbon	2.19	0.700						2.173	0.688	20	
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Sample ID: 2412475-001AMS		SampType: MS			Units: mg/L		Prep Date: 12/30/2024			RunNo: 96697		
Client ID: BATCH		Batch ID: R96697			Analysis Date: 12/30/2024			SeqNo: 2017030				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Total Organic Carbon	26.4	0.700	25.00	2.173	97.0	73.7	118				
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Sample ID: 2412475-001AMSD		SampType: MSD			Units: mg/L		Prep Date: 12/30/2024			RunNo: 96697		
Client ID: BATCH		Batch ID: R96697			Analysis Date: 12/30/2024					SeqNo: 2017031		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Total Organic Carbon	25.4	0.700	25.00	2.173	93.0	73.7	118	26.43	3.86	30	
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Work Order: 2412476
CLIENT: Friedman & Bruya
Project: 412415

QC SUMMARY REPORT
Total Organic Carbon by SM 5310C

Sample ID: 2412499-001DDUP	SampType: DUP	Units: mg/L				Prep Date: 12/31/2024				RunNo: 96697		
Client ID: BATCH	Batch ID: R96697					Analysis Date: 12/31/2024				SeqNo: 2017047		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Total Organic Carbon	ND	0.700						0		20		

Sample ID: 2412499-001DMS		SampType: MS		Units: mg/L		Prep Date: 12/31/2024			RunNo: 96697		
Client ID: BATCH		Batch ID: R96697					Analysis Date: 12/31/2024			SeqNo: 2017048	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	24.5	0.700	25.00	0	98.2	73.7	118				

Work Order: 2412476
CLIENT: Friedman & Bruya
Project: 412415

QC SUMMARY REPORT

Dissolved Gases by RSK-175

Sample ID: LCS-R96720		SampType: LCS			Units: ppmv		Prep Date: 1/2/2025			RunNo: 96720		
Client ID: LCSW		Batch ID: R96720			Analysis Date: 1/2/2025					SeqNo: 2017491		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Methane	1,120	0.00500	1,000	0	112	73.6	124				
Ethene	1,110	0.0100	1,000	0	111	76.3	122				
Ethane	1,140	0.0100	1,000	0	114	76.1	123				

Sample ID: MB-R96720		SampType: MBLK			Units: mg/L		Prep Date: 1/2/2025			RunNo: 96720		
Client ID: MBLKW		Batch ID: R96720			Analysis Date: 1/2/2025			SeqNo: 2017474				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Methane	ND	0.00500									
Ethene	ND	0.0100									
Ethane	ND	0.0100									

Sample ID: 2412476-001AREP		SampType: REP			Units: mg/L		Prep Date: 1/2/2025			RunNo: 96720		
Client ID: MW18-20241219		Batch ID: R96720			Analysis Date: 1/2/2025			SeqNo: 2017432				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Methane	10.3	0.00500						10.23	0.593	30	E
Ethene	ND	0.0100						0		30	
Ethane	ND	0.0100						0		30	

Client Name: FB

Work Order Number: 2412476

Logged by: Morgan Wilson

Date Received: 12/23/2024 10:55:00 AM

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒
4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all items received at a temperature of >2°C to 6°C * Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. Is there headspace in the VOA vials? Yes ☐ No ☒ NA ☐
11. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
12. Does paperwork match bottle labels? Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all hold times (except field parameters, pH e.g.) able to be met? Yes ☐ No ☒

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☒ No ☐ NA ☐

Person Notified:	<u>Michael Erdahl</u>	Date:	<u>12/23/2024</u>
By Whom:	<u>Morgan Wilson</u>	Via:	☒ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:	<u>Hold Time, Alk Method</u>		
Client Instructions:	<u>Okay to Proceed EPA 310</u>		

17. Additional remarks:

Item Information

Item #	Temp °C
Sample	4.1

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

SUBCONTRACT SAMPLE CHAIN OF CUSTODY

Send Report To Michael Erdahl
 Company Friedman and Bruya, Inc.
 Address 3012 16th Ave W
 City, State, ZIP Seattle, WA 98119
 Phone # (206) 285-8282 Fax # (206) 283-5044

SUBCONTRACTOR Alliance TG	
PROJECT NAME/NO. 412415	PO # E-601
REMARKS EIM	

Page # _____ of _____
TURNAROUND TIME
☒ Standard RUSH _____
Rush charges authorized by: _____
SAMPLE DISPOSAL Dispose after 30 days Return samples Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED										Notes
						Methane, Ethane, Ethene by RSK175	Sulfate, Nitrate, Alkalinity by SM1845/SM2320B	Fe 2+ by SM 3500	TOC							
MW18-20241219		12/19/2024	11:05	water	5	X	X	X	X							
MW19-20241219		12/19/2024	13:00	water	5	X	X	X								
MW21-20241220		12/20/2024	9:10	water	4	X			X							
MW22-20241220		12/20/2024	10:40	water	5	X	X	X	X							
MW23-20241219		12/19/2024	13:26	water	5	X	X	X	X							
MW24-20241220		12/20/2024	11:51	water	5	X	X	X	X							
MW25-20241219		12/19/2024	14:02	water	5	X	X	X	X							
IW04-20241219		12/19/2024	9:40	water	2		X	X	X							
IW50-20241220		12/20/2024	12:05	water	5	X	X	X	X							
IW61-20241220		12/20/2024	13:55	water	5	X	X	X	X							

SIGNATURE		PRINT NAME		COMPANY		DATE		TIME	
Relinquished by: 		Mac Goldman		Friedman and Bruya		12/23/24		9:40	
Received by: 		Nathan Keller		ATG		12/23/24		1055	
Relinquished by:									
Received by:									

ATTACHMENT B
STATISTICAL TREND ANALYSES

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	Location			IW50								
3	Date/Time of Computation			ProUCL 5.12/4/2025 1:01:34 PM								
4	From File			IW50_Q42024_rawdata.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.85								
7	Level of Significance			0.15								
8												
9	VC											
10												
11	General Statistics											
12	Number of Events Reported (m)				25							
13	Number of Missing Events				0							
14	Number or Reported Events Used				25							
15	Number Values Reported (n)				25							
16	Minimum				0.1							
17	Maximum				7.4							
18	Mean				2.808							
19	Geometric Mean				1.818							
20	Median				2.4							
21	Standard Deviation				2.217							
22	Coefficient of Variation				0.79							
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)				74							
26	Critical Value (0.15)				1.036							
27	Standard Deviation of S				42.79							
28	Standardized Value of S				1.706							
29	Approximate p-value				0.044							
30												
31	Statistically significant evidence of an increasing											
32	trend at the specified level of significance.											

	A	B
1	Time Since	VC
2	0	0.1
3	127	1.8
4	219	1.9
5	347	2.5
6	445	1
7	542	0.74
8	669	0.95
9	783	2.6
10	866	2.2
11	950	3.6
12	1062	2.5
13	1146	2.9
14	1230	4.5
15	1412	7.1
16	1587	7.4
17	1790	1.1
18	1958	0.1
19	2153	0.85
20	2328	0.8
21	2502	2.4
22	2692	6.4
23	2881	5.8
24	3048	5.4
25	3251	4.7
26	3427	0.86

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	Location			IW61								
3	Date/Time of Computation			ProUCL 5.12/5/2025 11:14:16 AM								
4	From File			PROUCL_Q4_IW61_rawdata.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.85								
7	Level of Significance			0.15								
8												
9	cis-1,2-DCE											
10												
11	General Statistics											
12	Number of Events Reported (m)				25							
13	Number of Missing Events				0							
14	Number or Reported Events Used				25							
15	Number Values Reported (n)				25							
16	Minimum				24							
17	Maximum				140							
18	Mean				55.4							
19	Geometric Mean				49.87							
20	Median				46							
21	Standard Deviation				27.99							
22	Coefficient of Variation				0.505							
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)				-59							
26	Critical Value (0.15)				-1.036							
27	Standard Deviation of S				42.73							
28	Standardized Value of S				-1.357							
29	Approximate p-value				0.0873							
30												
31	Statistically significant evidence of a decreasing											
32	trend at the specified level of significance.											

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	Location			IW61								
3	Date/Time of Computation			ProUCL 5.12/5/2025 11:15:10 AM								
4	From File			PROUCL_Q4_IW61_rawdata.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.85								
7	Level of Significance			0.15								
8												
9	VC											
10												
11	General Statistics											
12	Number of Events Reported (m)				25							
13	Number of Missing Events				0							
14	Number or Reported Events Used				25							
15	Number Values Reported (n)				25							
16	Minimum				0.86							
17	Maximum				4.5							
18	Mean				2.291							
19	Geometric Mean				2.019							
20	Median				1.8							
21	Standard Deviation				1.144							
22	Coefficient of Variation				0.499							
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)				173							
26	Critical Value (0.15)				1.036							
27	Standard Deviation of S				42.74							
28	Standardized Value of S				4.025							
29	Approximate p-value				2.8518E-5							
30												
31	Statistically significant evidence of an increasing											
32	trend at the specified level of significance.											

	A	B	C	D
1	Time Since	VC	cis-1,2-DCE	
2	0	0.86	120	
3	92	1.7	140	
4	219	1.6	24	
5	318	0.96	34	
6	415	0.96	32	
7	542	1.3	41	
8	655	1.2	45	
9	739	1.2	65	
10	823	1.1	71	
11	836	1.3	82	
12	935	1.7	67	
13	1019	1.8	63	
14	1103	2	58	
15	1285	2.9	71	
16	1460	4	65	
17	1663	4.5	63	
18	1831	4.1	30	
19	2026	1.8	25	
20	2201	3.8	41	
21	2375	3.2	25	
22	2565	2.7	57	
23	2754	2.7	36	
24	2921	3.8	41	
25	3124	3	46	
26	3300	3.1	43	

	A	B
1	Time Since	TCE
2	0	13
3	90	6.9
4	215	9.2
5	305	9.6
6	432	8.9
7	530	5.5
8	627	9.4
9	754	9.3
10	867	5.7
11	951	8
12	1036	8.6
13	1148	9.4
14	1231	9.4
15	1316	10
16	1498	11
17	1672	11
18	1876	10
19	2044	9.2
20	2239	11
21	2413	7.8
22	2587	9.2
23	2777	8.2
24	2967	9.3
25	3136	9.4
26	3337	8.6
27	3512	9.8

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	User Selected Options											
3	Date/Time of Computation			ProUCL 5.12/11/2025 9:13:35 AM								
4	From File			PROUCL_MW04_Q42024_rawadata.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.85								
7	Level of Significance			0.15								
8												
9	TCE											
10												
11	General Statistics											
12	Number of Events Reported (m)			26								
13	Number of Missing Events			0								
14	Number or Reported Events Used			26								
15	Number Values Reported (n)			26								
16	Minimum			5.5								
17	Maximum			13								
18	Mean			9.131								
19	Geometric Mean			8.988								
20	Median			9.3								
21	Standard Deviation			1.581								
22	Coefficient of Variation			0.173								
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)			32								
26	Critical Value (0.15)			1.036								
27	Standard Deviation of S			45.16								
28	Standardized Value of S			0.686								
29	Approximate p-value			0.246								
30												
31	Insufficient evidence to identify a significant											
32	trend at the specified level of significance.											

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	Location			MW07								
3	Date/Time of Computation			ProUCL 5.12/5/2025 11:23:25 AM								
4	From File			PROUCL_MW07_rawadata.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.85								
7	Level of Significance			0.15								
8												
9	TCE											
10												
11	General Statistics											
12	Number of Events Reported (m)				24							
13	Number of Missing Events				0							
14	Number or Reported Events Used				24							
15	Number Values Reported (n)				24							
16	Minimum				4.2							
17	Maximum				18							
18	Mean				9.279							
19	Geometric Mean				8.399							
20	Median				7.25							
21	Standard Deviation				4.352							
22	Coefficient of Variation				0.469							
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)				-168							
26	Critical Value (0.15)				-1.036							
27	Standard Deviation of S				40.23							
28	Standardized Value of S				-4.151							
29	Approximate p-value				1.6562E-5							
30												
31	Statistically significant evidence of a decreasing											
32	trend at the specified level of significance.											

	A	B
1	Time Since	TCE
2	0	15
3	89	12
4	215	14
5	305	13
6	432	18
7	530	13
8	627	8.1
9	754	8.6
10	1035	11
11	1148	7.3
12	1231	6
13	1316	6.7
14	1498	5.9
15	1672	5.9
16	1880	5.8
17	2043	18
18	2238	15
19	2413	7.2
20	2587	6.5
21	2777	5.9
22	2967	5.1
23	3136	4.8
24	3337	4.2
25	3512	5.7

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	Location			MW18								
3	Date/Time of Computation			ProUCL 5.12/5/2025 11:33:42 AM								
4	From File			Q42023_MW18_VC_rawdata.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.85								
7	Level of Significance			0.15								
8												
9	VC											
10												
11	General Statistics											
12	Number of Events Reported (m)				26							
13	Number of Missing Events				0							
14	Number or Reported Events Used				26							
15	Number Values Reported (n)				26							
16	Minimum				0.1							
17	Maximum				2.4							
18	Mean				0.816							
19	Geometric Mean				0.487							
20	Median				0.435							
21	Standard Deviation				0.747							
22	Coefficient of Variation				0.916							
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)				246							
26	Critical Value (0.15)				1.036							
27	Standard Deviation of S				45.03							
28	Standardized Value of S				5.44							
29	Approximate p-value				2.6578E-8							
30												
31	Statistically significant evidence of an increasing											
32	trend at the specified level of significance.											

	A	B
1	Time Since	VC
2	0	0.1
3	89	0.1
4	216	0.1
5	307	0.1
6	435	0.1
7	533	0.1
8	631	0.25
9	757	0.31
10	871	0.38
11	955	0.24
12	1039	0.4
13	1151	0.43
14	1235	0.42
15	1319	0.49
16	1501	0.44
17	1676	0.55
18	1879	1.5
19	2047	2.4
20	2242	1.7
21	2417	1.8
22	2591	1.6
23	2780	1.1
24	2969	1.4
25	3137	1.3
26	3340	2.4
27	3515	1.5

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	Location			MW19								
3	Date/Time of Computation			ProUCL 5.12/10/2025 8:48:40 AM								
4	From File			PROUCL_MW19_rawdata.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.85								
7	Level of Significance			0.15								
8												
9	Vinyl Chloride											
10												
11	General Statistics											
12	Number of Events Reported (m)				25							
13	Number of Missing Events				0							
14	Number or Reported Events Used				25							
15	Number Values Reported (n)				25							
16	Minimum				0.1							
17	Maximum				2.8							
18	Mean				0.995							
19	Geometric Mean				0.627							
20	Median				0.86							
21	Standard Deviation				0.818							
22	Coefficient of Variation				0.822							
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)				201							
26	Critical Value (0.15)				1.036							
27	Standard Deviation of S				42.59							
28	Standardized Value of S				4.696							
29	Approximate p-value				1.3249E-6							
30												
31	Statistically significant evidence of an increasing											
32	trend at the specified level of significance.											

	A	B	C
1	Time Since	Vinyl Chloride	
2	0	0.1	
3	88	0.1	
4	214	0.1	
5	306	0.1	
6	433	0.1	
7	533	0.4	
8	629	0.3	
9	756	0.44	
10	870	0.97	
11	954	0.97	
12	1038	0.78	
13	1150	0.96	
14	1234	0.86	
15	1500	0.79	
16	1675	0.98	
17	1878	0.78	
18	2046	2.6	
19	2241	1	
20	2416	1.5	
21	2590	1.9	
22	2780	1.9	
23	2968	0.25	
24	3136	2.8	
25	3339	2.2	
26	3514	2	

	A	B	C
1	Time Since	Vinyl Chloride	
2	0	0.1	
3	90	0.1	
4	216	0.1	
5	308	0.1	
6	434	0.1	
7	533	0.1	
8	631	0.1	
9	757	0.1	
10	871	0.1	
11	955	0.49	
12	1039	0.43	
13	1151	0.29	
14	1235	0.3	
15	1319	0.96	
16	1501	1.1	
17	1676	1.3	
18	1879	0.49	
19	2047	1.8	
20	2242	0.86	
21	2417	1.3	
22	2591	1.9	
23	2780	1.4	
24	2970	2	
25	3137	2.6	
26	3340	1.9	
27	3516	1.8	

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	Location			MW21								
3	Date/Time of Computation			ProUCL 5.12/5/2025 11:47:56 AM								
4	From File			PROUCL_MW21_Q42024-rawadata.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.85								
7	Level of Significance			0.15								
8												
9	Vinyl Chloride											
10												
11	General Statistics											
12	Number of Events Reported (m)				26							
13	Number of Missing Events				0							
14	Number or Reported Events Used				26							
15	Number Values Reported (n)				26							
16	Minimum				0.1							
17	Maximum				2.6							
18	Mean				0.839							
19	Geometric Mean				0.453							
20	Median				0.49							
21	Standard Deviation				0.782							
22	Coefficient of Variation				0.932							
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)				243							
26	Critical Value (0.15)				1.036							
27	Standard Deviation of S				44.3							
28	Standardized Value of S				5.463							
29	Approximate p-value				2.3411E-8							
30												
31	Statistically significant evidence of an increasing											
32	trend at the specified level of significance.											

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	Location			MW22								
3	Date/Time of Computation			ProUCL 5.12/10/2025 8:23:38 AM								
4	From File			Q4_MW22_rawdata.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.85								
7	Level of Significance			0.15								
8												
9	cis-1,2-DCE											
10												
11	General Statistics											
12	Number of Events Reported (m)				26							
13	Number of Missing Events				0							
14	Number or Reported Events Used				26							
15	Number Values Reported (n)				26							
16	Minimum				5.5							
17	Maximum				58							
18	Mean				34.14							
19	Geometric Mean				28.9							
20	Median				36							
21	Standard Deviation				15.92							
22	Coefficient of Variation				0.466							
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)				143							
26	Critical Value (0.15)				1.036							
27	Standard Deviation of S				45.25							
28	Standardized Value of S				3.138							
29	Approximate p-value				8.5040E-4							
30												
31	Statistically significant evidence of an increasing											
32	trend at the specified level of significance.											

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	Location			MW22								
3	Date/Time of Computation			ProUCL 5.12/10/2025 8:24:39 AM								
4	From File			Q4_MW22_rawdata.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.85								
7	Level of Significance			0.15								
8												
9	VC											
10												
11	General Statistics											
12	Number of Events Reported (m)				26							
13	Number of Missing Events				0							
14	Number or Reported Events Used				26							
15	Number Values Reported (n)				26							
16	Minimum				0.1							
17	Maximum				2.4							
18	Mean				0.978							
19	Geometric Mean				0.729							
20	Median				1.05							
21	Standard Deviation				0.567							
22	Coefficient of Variation				0.579							
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)				141							
26	Critical Value (0.15)				1.036							
27	Standard Deviation of S				45.13							
28	Standardized Value of S				3.102							
29	Approximate p-value				9.6130E-4							
30												
31	Statistically significant evidence of an increasing											
32	trend at the specified level of significance.											

	A	B	C
1	Time Since	cis-1,2-DCE	VC
2	0	27	0.1
3	90	34	0.1
4	216	42	0.1
5	307	52	0.35
6	434	5.5	0.1
7	533	6.7	0.65
8	631	8.5	0.51
9	757	10	1.5
10	871	18	1.4
11	955	22	1.2
12	1039	22	1.3
13	1151	28	1.2
14	1235	33	0.9
15	1319	37	1.2
16	1501	49	1
17	1676	48	1
18	1879	42	0.99
19	2047	44	1.1
20	2242	43	0.82
21	2417	52	1.2
22	2591	52	1.3
23	2781	58	1.1
24	2970	21	0.51
25	3137	52	1.6
26	3340	46	1.8
27	3516	35	2.4

	A	B	C
1	Time Since	cis-1,2-DCE	VC
2	0		0.1
3	90		0.2
4	216		0.57
5	307		0.64
6	435		2.2
7	533		0.48
8	631		1.4
9	757		0.74
10	871		0.5
11	955		0.51
12	1039		0.52
13	1151		0.53
14	1235		0.53
15	1319		0.1
16	1501		0.72
17	1676		0.89
18	1879		0.76
19	2047		0.85
20	2242		0.97
21	2417		3.7
22	3340		2
23	3515		1.8

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	Location			MW23								
3	Date/Time of Computation			ProUCL 5.12/10/2025 8:34:49 AM								
4	From File			Q4_2024_MW23_rawdata.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.85								
7	Level of Significance			0.15								
8												
9	VC											
10												
11	General Statistics											
12	Number of Events Reported (m)				22							
13	Number of Missing Events				0							
14	Number or Reported Events Used				22							
15	Number Values Reported (n)				22							
16	Minimum				0.1							
17	Maximum				3.7							
18	Mean				0.941							
19	Geometric Mean				0.672							
20	Median				0.68							
21	Standard Deviation				0.837							
22	Coefficient of Variation				0.889							
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)				107							
26	Tabulated p-value				0.001							
27	Standard Deviation of S				35.44							
28	Standardized Value of S				2.991							
29	Approximate p-value				0.00139							
30												
31	Statistically significant evidence of an increasing											
32	trend at the specified level of significance.											

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	Location			MW24								
3	Date/Time of Computation			ProUCL 5.12/10/2025 8:41:31 AM								
4	From File			PROUCL_Q42024_MW24_rawdata.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.85								
7	Level of Significance			0.15								
8												
9	VC											
10												
11	General Statistics											
12	Number of Events Reported (m)				26							
13	Number of Missing Events				0							
14	Number or Reported Events Used				26							
15	Number Values Reported (n)				26							
16	Minimum				0.1							
17	Maximum				6.1							
18	Mean				0.946							
19	Geometric Mean				0.578							
20	Median				0.69							
21	Standard Deviation				1.185							
22	Coefficient of Variation				1.253							
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)				197							
26	Critical Value (0.15)				1.036							
27	Standard Deviation of S				45.23							
28	Standardized Value of S				4.333							
29	Approximate p-value				7.3379E-6							
30												
31	Statistically significant evidence of an increasing											
32	trend at the specified level of significance.											

	A	B	C
1	Time Since x		VC
2	0		0.26
3	90		0.1
4	216		0.1
5	308		0.1
6	436		0.1
7	533		0.26
8	630		0.81
9	757		1
10	872		0.36
11	955		0.38
12	1039		0.36
13	1151		2.1
14	1235		0.37
15	1319		0.51
16	1501		1
17	1676		0.94
18	1879		0.76
19	2047		0.61
20	2242		0.67
21	2417		0.71
22	2591		1.1
23	2781		6.1
24	2970		1.5
25	3137		2
26	3340		1.3
27	3516		1.1

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	Location			MW25								
3	Date/Time of Computation			ProUCL 5.12/10/2025 9:03:56 AM								
4	From File			PROUCL_MW25_rawadata.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.85								
7	Level of Significance			0.15								
8												
9	TCE											
10												
11	General Statistics											
12	Number of Events Reported (m)				26							
13	Number of Missing Events				0							
14	Number or Reported Events Used				26							
15	Number Values Reported (n)				26							
16	Minimum				0.5							
17	Maximum				75							
18	Mean				12.05							
19	Geometric Mean				2.29							
20	Median				1.25							
21	Standard Deviation				23.87							
22	Coefficient of Variation				1.982							
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)				-38							
26	Critical Value (0.15)				-1.036							
27	Standard Deviation of S				43.51							
28	Standardized Value of S				-0.85							
29	Approximate p-value				0.198							
30												
31	Insufficient evidence to identify a significant											
32	trend at the specified level of significance.											

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	Location			MW25								
3	Date/Time of Computation			ProUCL 5.12/10/2025 9:03:29 AM								
4	From File			PROUCL_MW25_rawadata.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.85								
7	Level of Significance			0.15								
8												
9	Vinyl Chloride											
10												
11	General Statistics											
12	Number of Events Reported (m)				26							
13	Number of Missing Events				0							
14	Number or Reported Events Used				26							
15	Number Values Reported (n)				26							
16	Minimum				0.1							
17	Maximum				4.1							
18	Mean				0.98							
19	Geometric Mean				0.609							
20	Median				0.615							
21	Standard Deviation				1.021							
22	Coefficient of Variation				1.041							
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)				195							
26	Critical Value (0.15)				1.036							
27	Standard Deviation of S				45.27							
28	Standardized Value of S				4.285							
29	Approximate p-value				9.1332E-6							
30												
31	Statistically significant evidence of an increasing											
32	trend at the specified level of significance.											

	A	B	C
1	Time Since	Vinyl Chloride	TCE
2	0	0.1	68
3	90	0.1	75
4	216	0.1	71
5	306	0.1	50
6	433	0.7	4.8
7	531	0.96	5.1
8	629	0.89	3.6
9	756	0.31	1.2
10	870	0.4	0.5
11	954	0.41	0.5
12	1038	0.32	0.5
13	1150	0.52	0.5
14	1234	0.46	0.5
15	1318	0.6	0.5
16	1500	0.54	0.5
17	1675	0.63	0.5
18	1878	0.73	0.5
19	2046	0.43	0.5
20	2241	0.79	0.5
21	2416	3.6	0.52
22	2590	4.1	1.3
23	2780	2.2	3.8
24	2969	1.3	3.2
25	3136	1.9	5.5
26	3339	1.8	6.6
27	3514	1.5	8.1

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	Location			MW26								
3	Date/Time of Computation			ProUCL 5.12/10/2025 10:12:29 AM								
4	From File			PROUCL_MW26_rawadata.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.85								
7	Level of Significance			0.15								
8												
9	TCE											
10												
11	General Statistics											
12	Number of Events Reported (m)				24							
13	Number of Missing Events				0							
14	Number or Reported Events Used				24							
15	Number Values Reported (n)				24							
16	Minimum				3.5							
17	Maximum				20							
18	Mean				11.28							
19	Geometric Mean				10.24							
20	Median				11							
21	Standard Deviation				4.742							
22	Coefficient of Variation				0.42							
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)				-22							
26	Critical Value (0.15)				-1.036							
27	Standard Deviation of S				40.15							
28	Standardized Value of S				-0.523							
29	Approximate p-value				0.3							
30												
31	Insufficient evidence to identify a significant											
32	trend at the specified level of significance.											

	A	B	C
1	Time Since	PCE	TCE
2	0		11
3	88		10
4	215		12
5	313		12
6	411		13
7	538		7.9
8	651		7.1
9	735		15
10	820		6
11	931		18
12	1015		18
13	1100		20
14	1282		20
15	1456		13
16	1660		13
17	1828		4
18	2023		6.6
19	2197		7.9
20	2372		3.5
21	2561		10
22	2751		11
23	2918		5.8
24	3120		11
25	3296		15

	A	B
1	Time Since	TCE
2	0	21
3	88	21
4	216	18
5	314	23
6	411	33
7	538	18
8	651	16
9	735	81
10	750	60
11	819	13
12	931	37
13	1015	21
14	1100	17
15	1282	14
16	1456	15
17	1660	30
18	1827	69
19	2022	80
20	2197	28
21	2372	16
22	2562	16
23	2750	15
24	2918	4.5
25	3121	20
26	3295	12

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	Location			MW27								
3	Date/Time of Computation			ProUCL 5.12/10/2025 10:26:00 AM								
4	From File			PROUCL_MW27_Q42023_TCE_rawdata.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.85								
7	Level of Significance			0.15								
8												
9	TCE											
10												
11	General Statistics											
12	Number of Events Reported (m)				25							
13	Number of Missing Events				0							
14	Number or Reported Events Used				25							
15	Number Values Reported (n)				25							
16	Minimum				4.5							
17	Maximum				81							
18	Mean				27.94							
19	Geometric Mean				22.42							
20	Median				20							
21	Standard Deviation				21.3							
22	Coefficient of Variation				0.762							
23												
24	Mann-Kendall Test											
25	M-K Test Value (S)				-70							
26	Critical Value (0.15)				-1.036							
27	Standard Deviation of S				42.71							
28	Standardized Value of S				-1.616							
29	Approximate p-value				0.0531							
30												
31	Statistically significant evidence of a decreasing											
32	trend at the specified level of significance.											

	A	B
1	Time Since	PCE
2	0	8.6
3	57	16
4	262	18
5	429	18
6	623	14
7	799	15
8	973	20
9	1416	18
10	1550	8.5
11	1722	11
12	1897	8

ATTACHMENT C
PERFORMANCE CHARTS

Chart A - MW29-29R

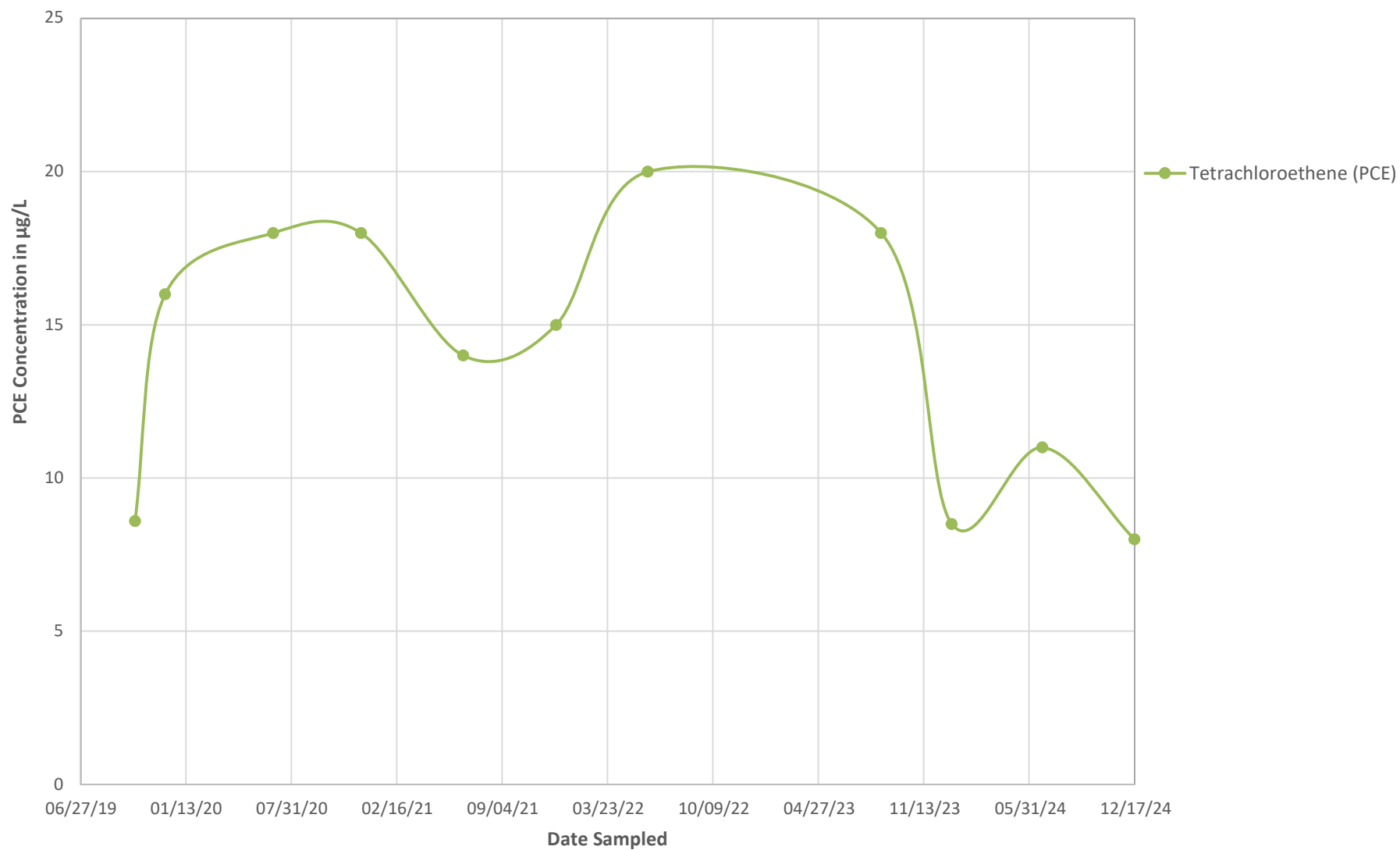


Chart B - MW25

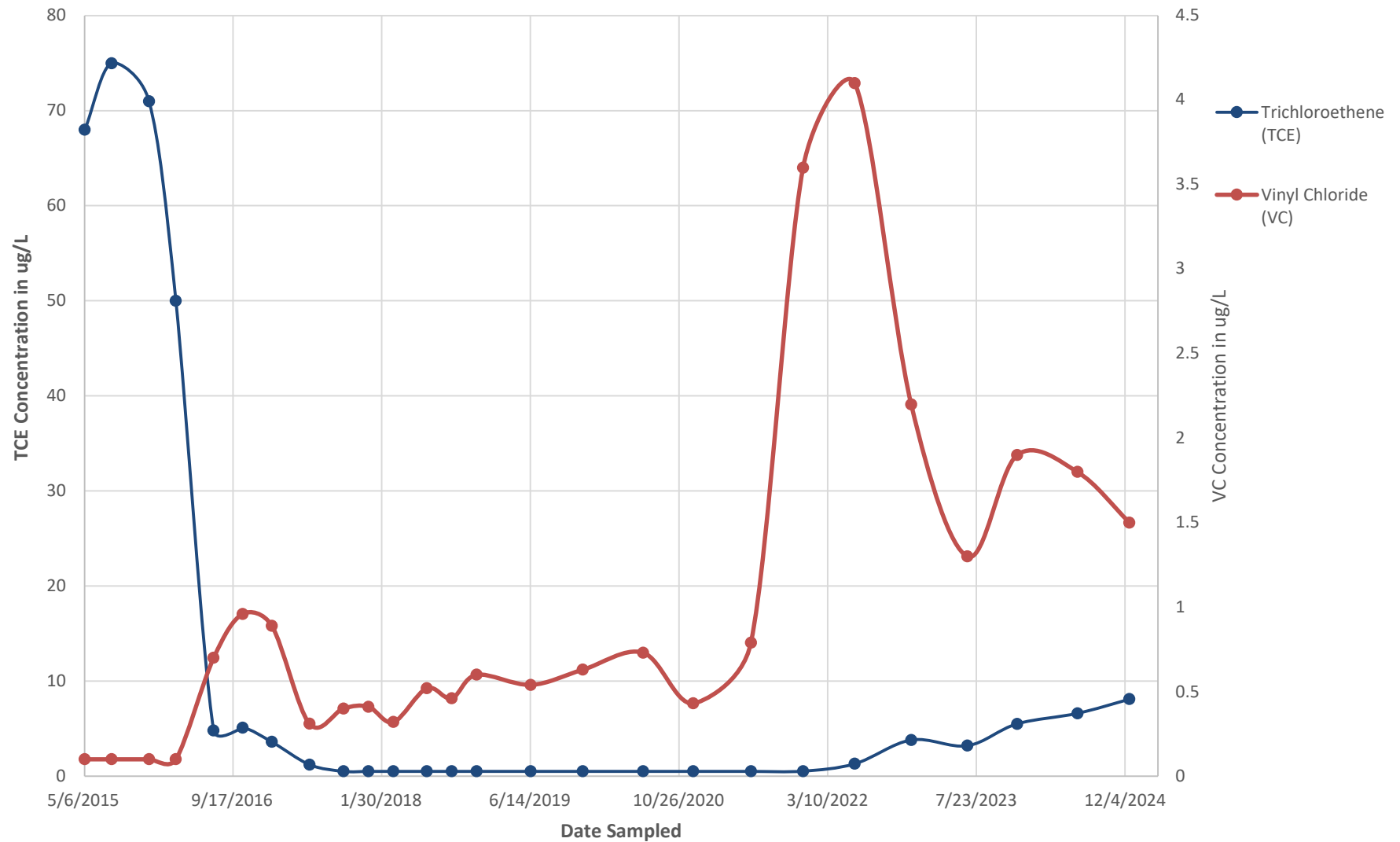


Chart C - MW07

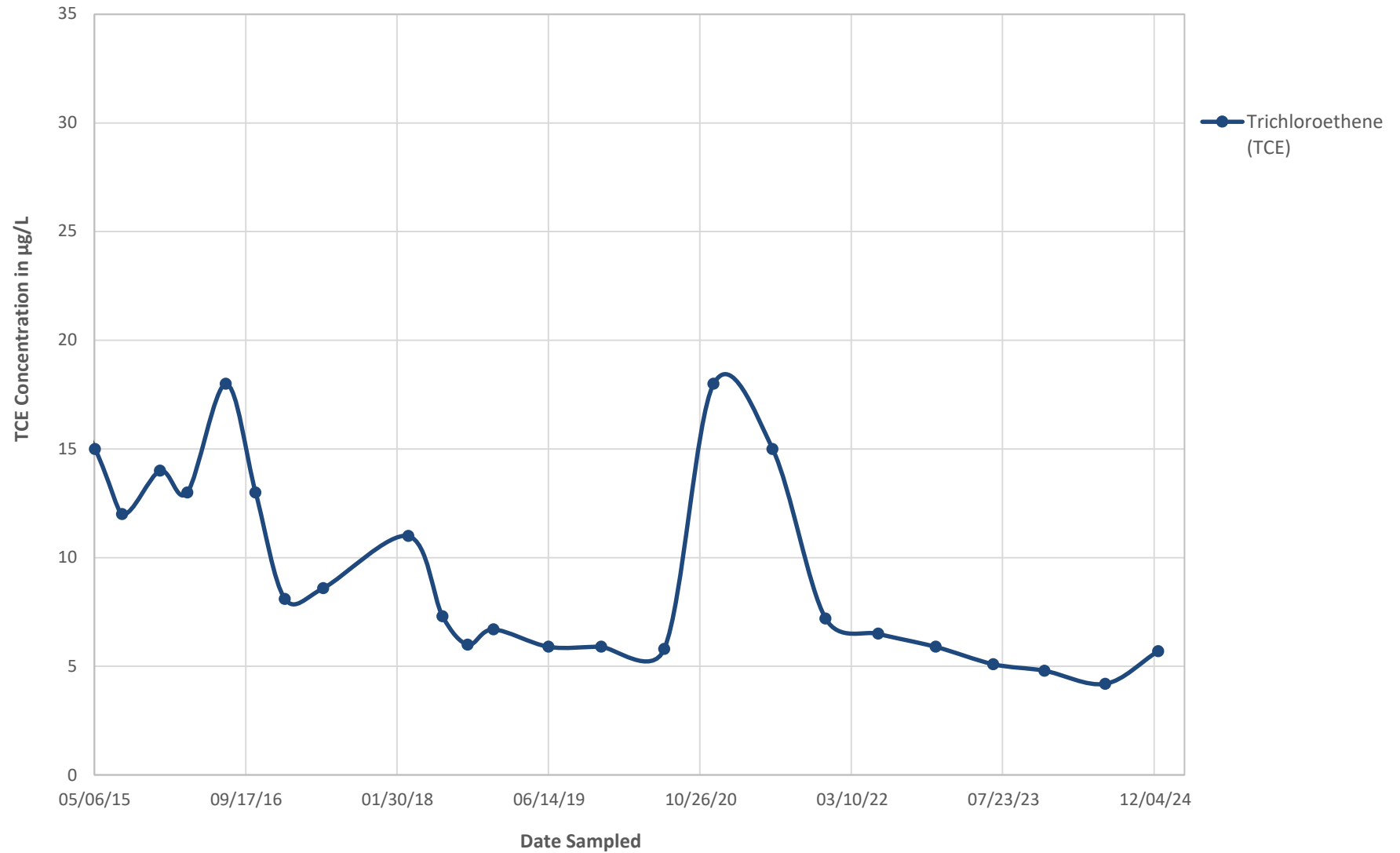


Chart D - MW26

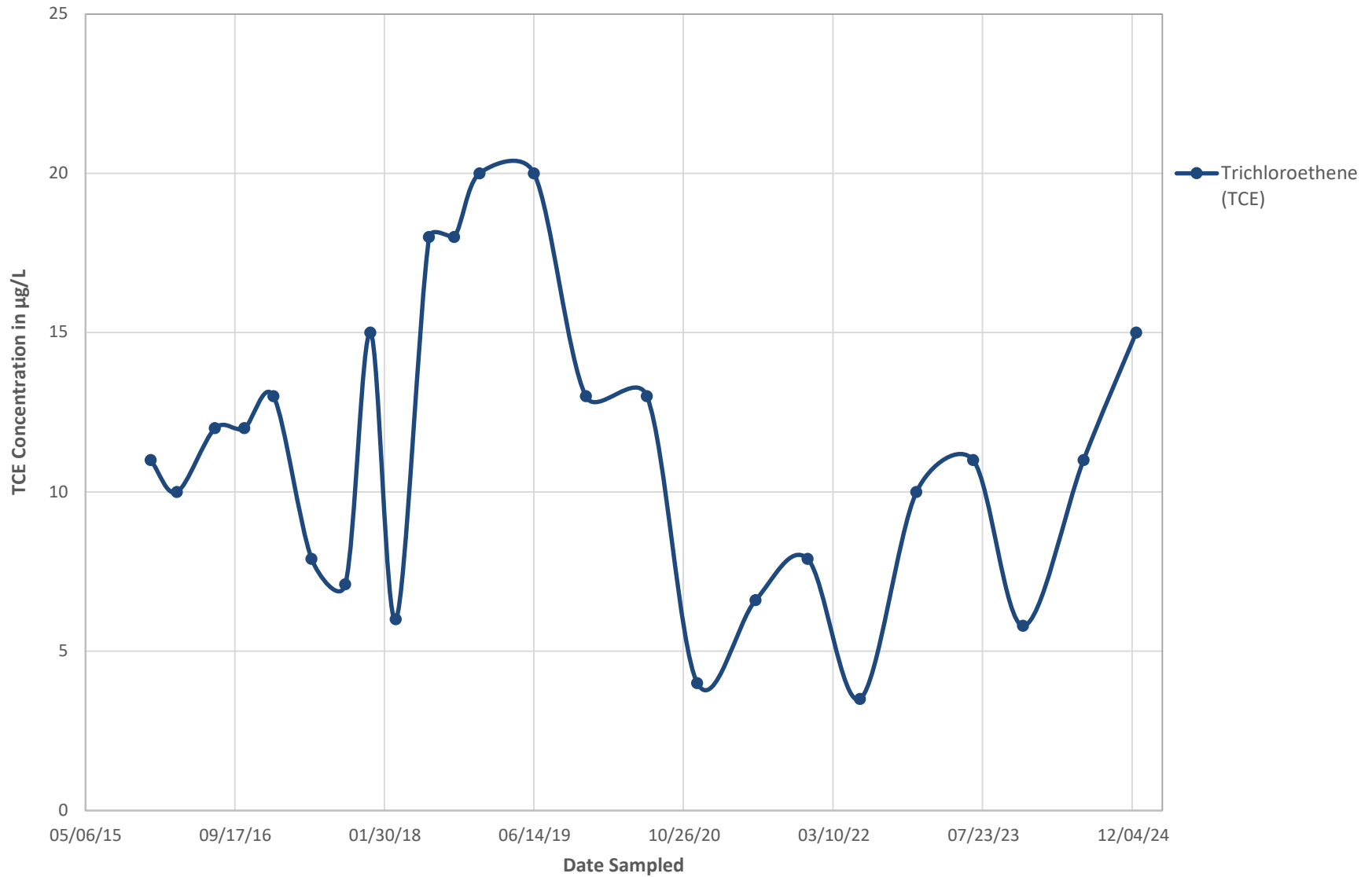


Chart E - MW27

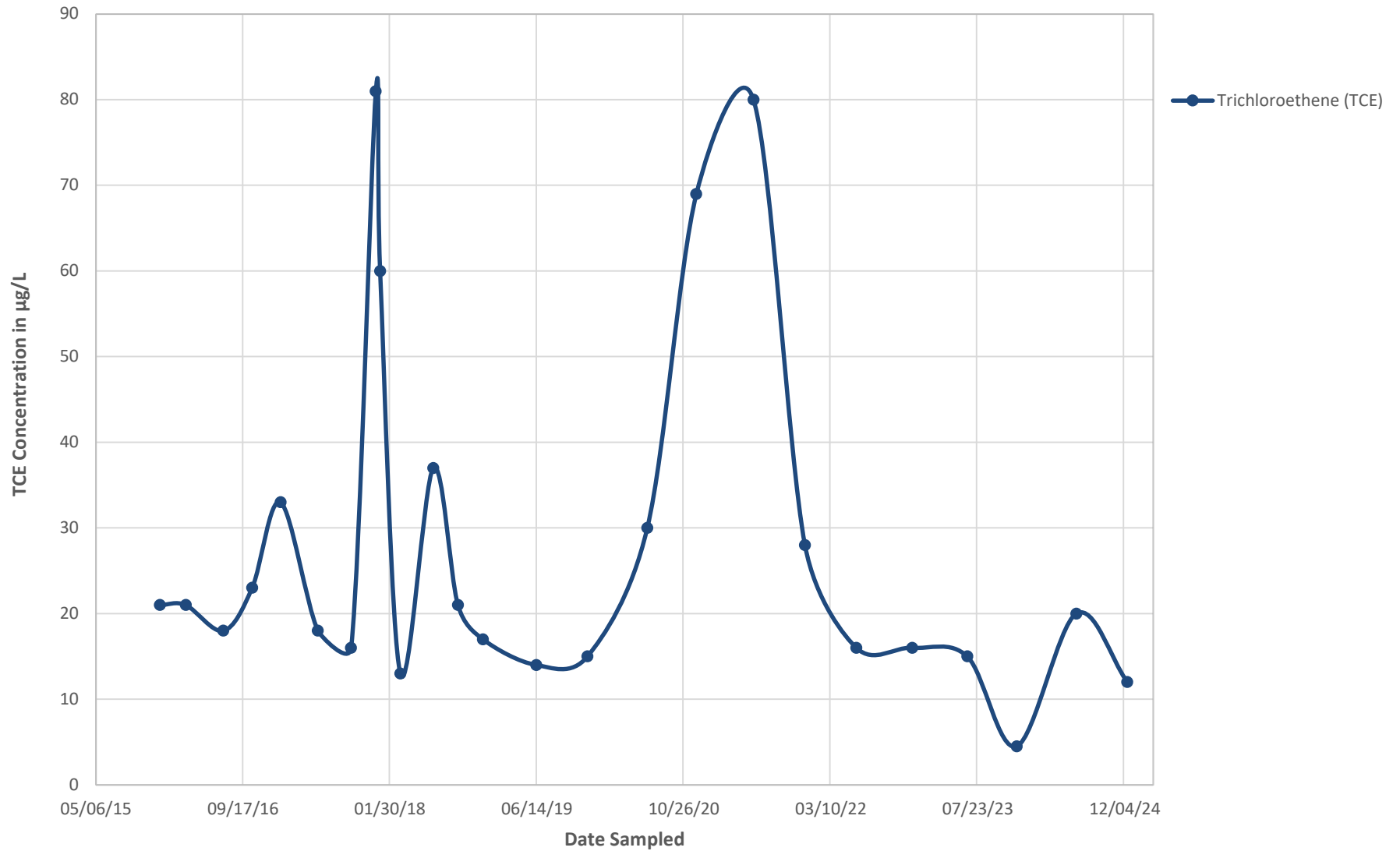


Chart F - IW50

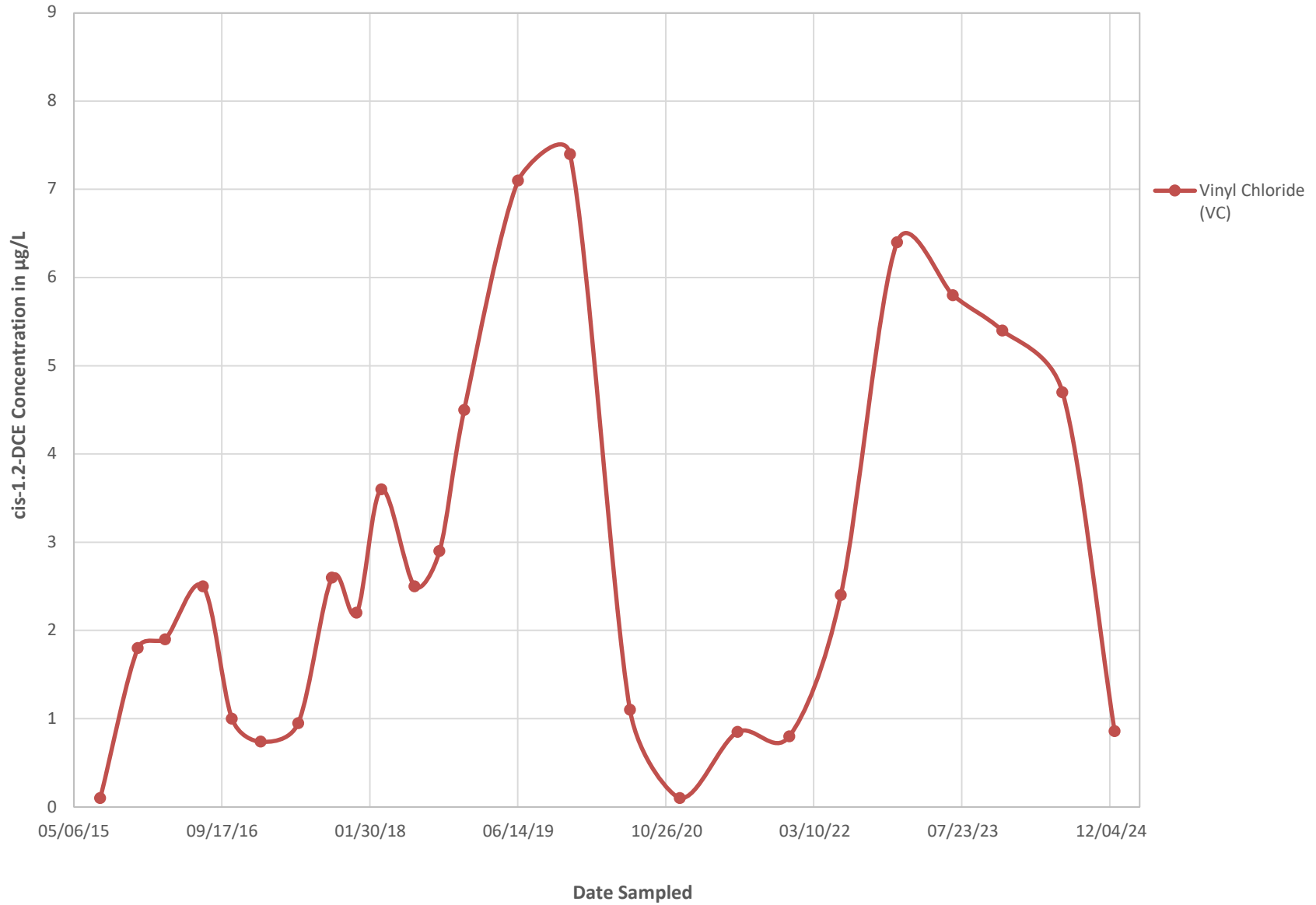


Chart G - IW61

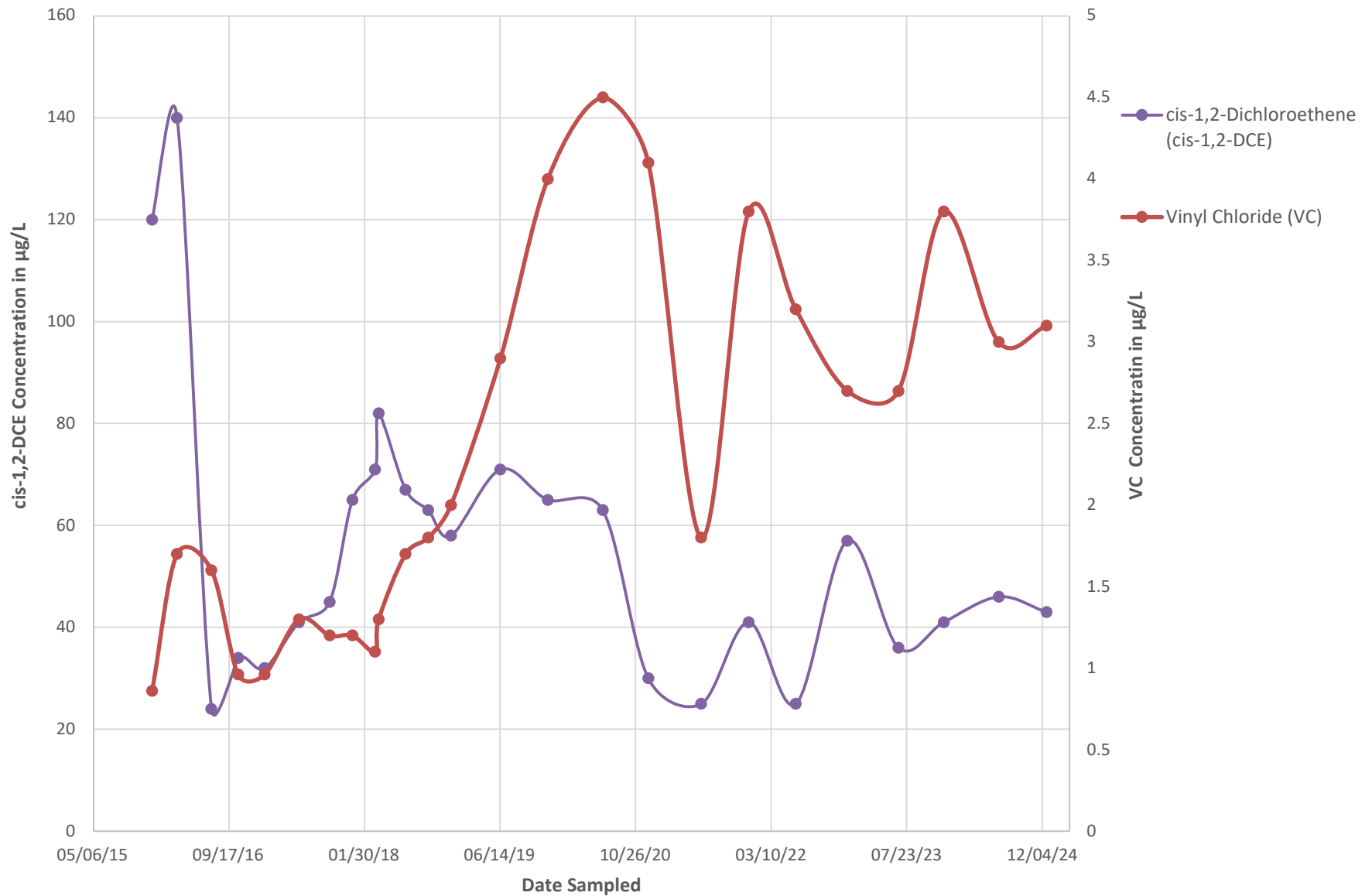


Chart H - MW18

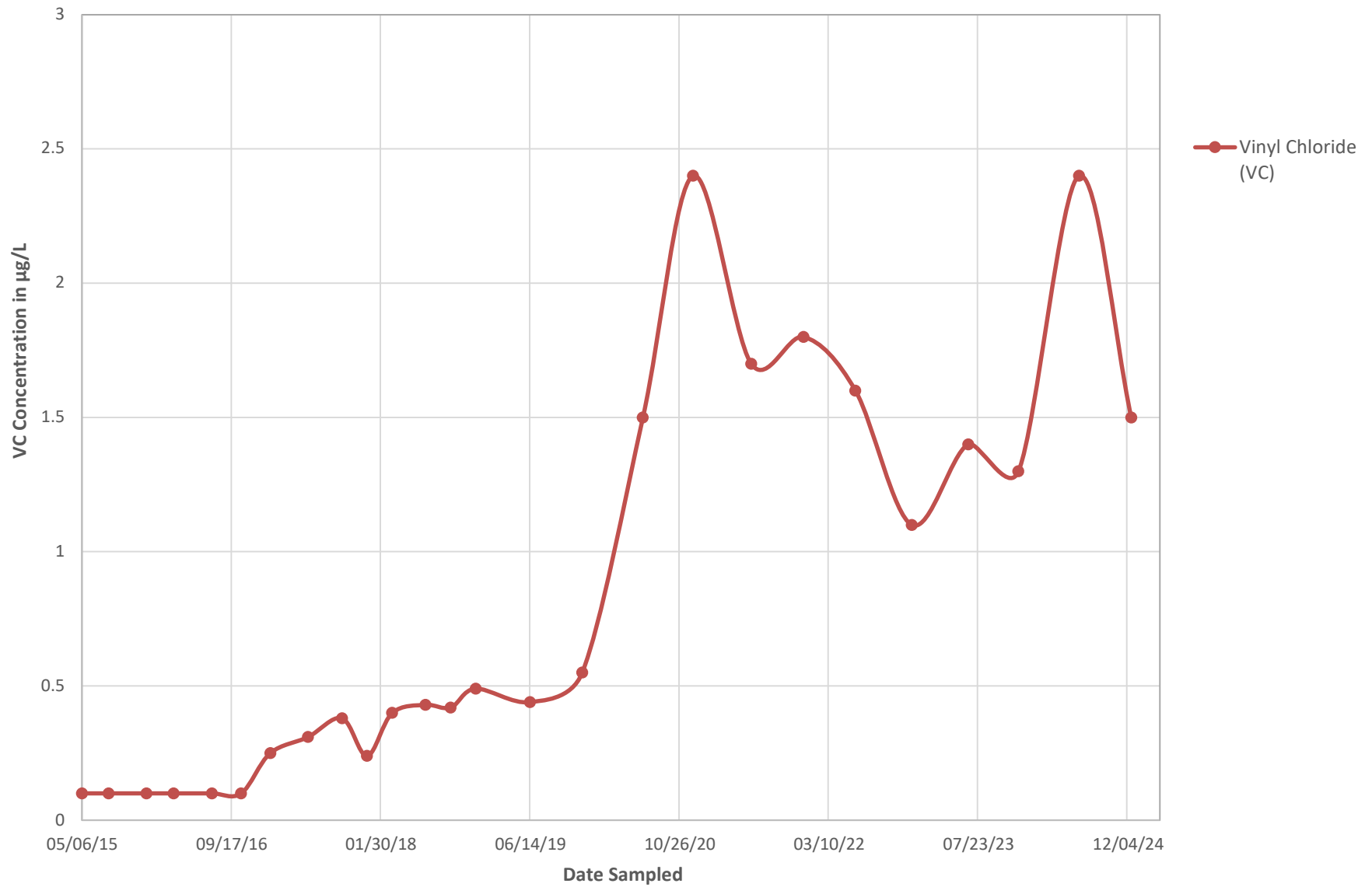


Chart I - MW19

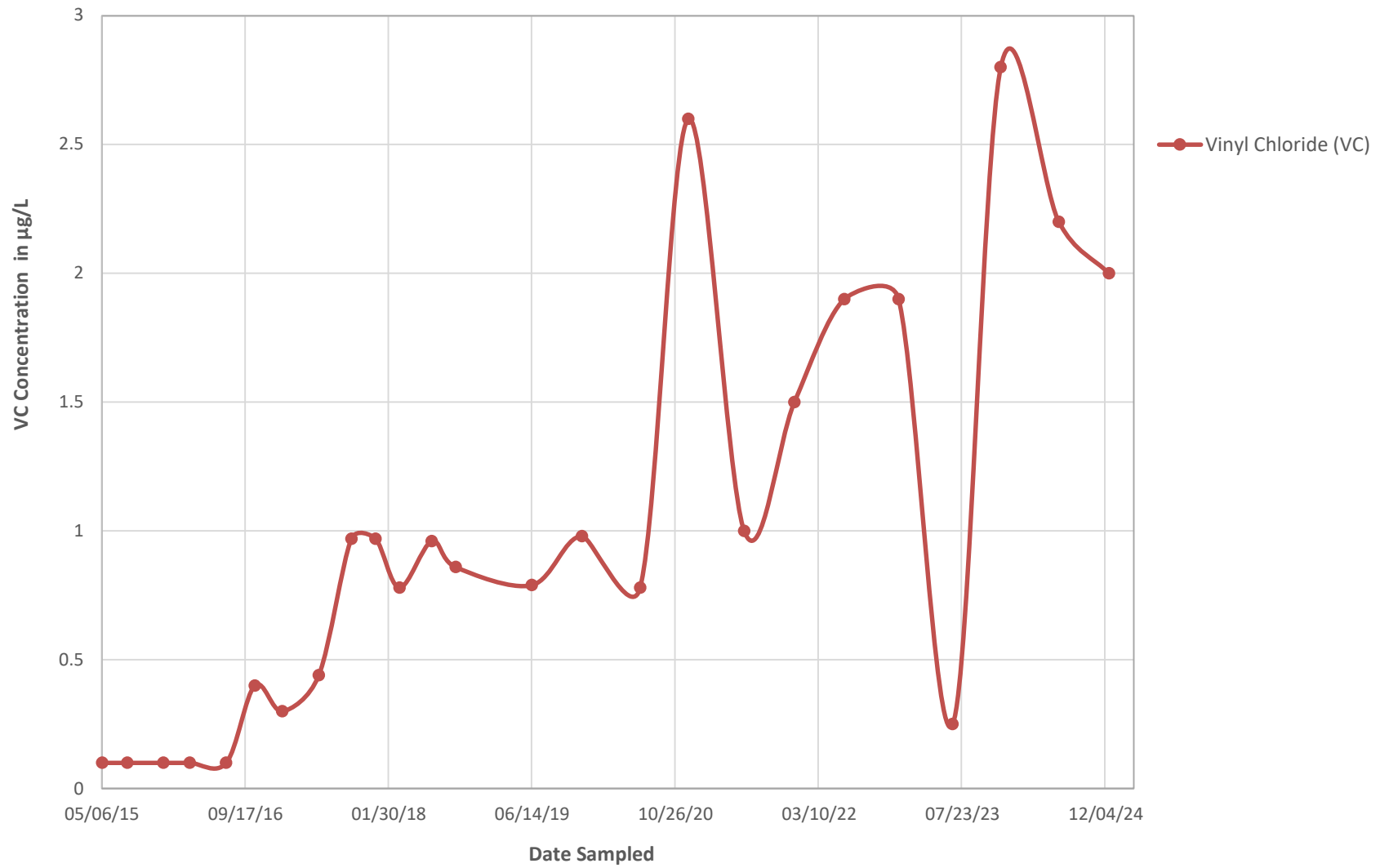


Chart J - MW21

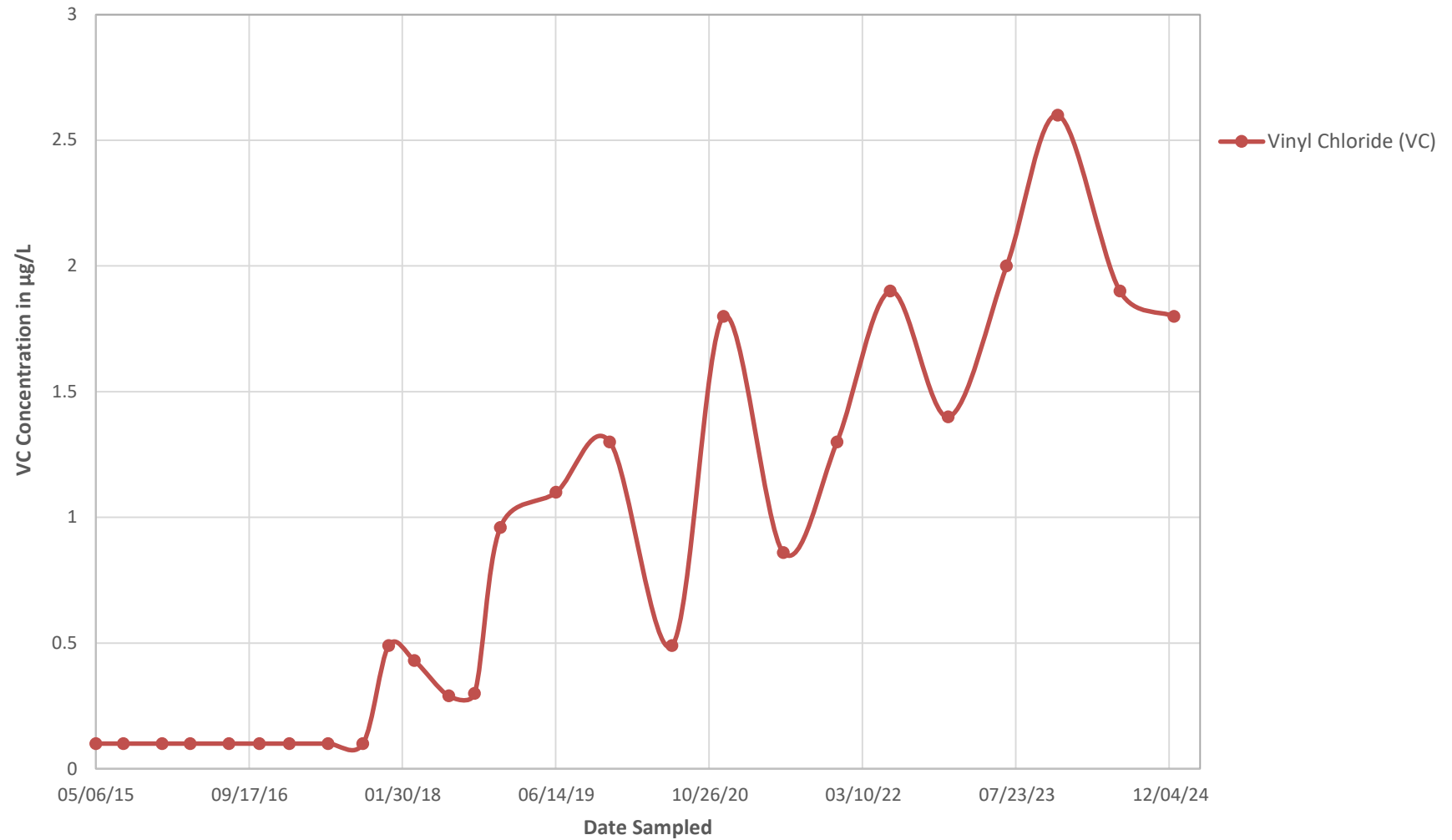


Chart K - MW22

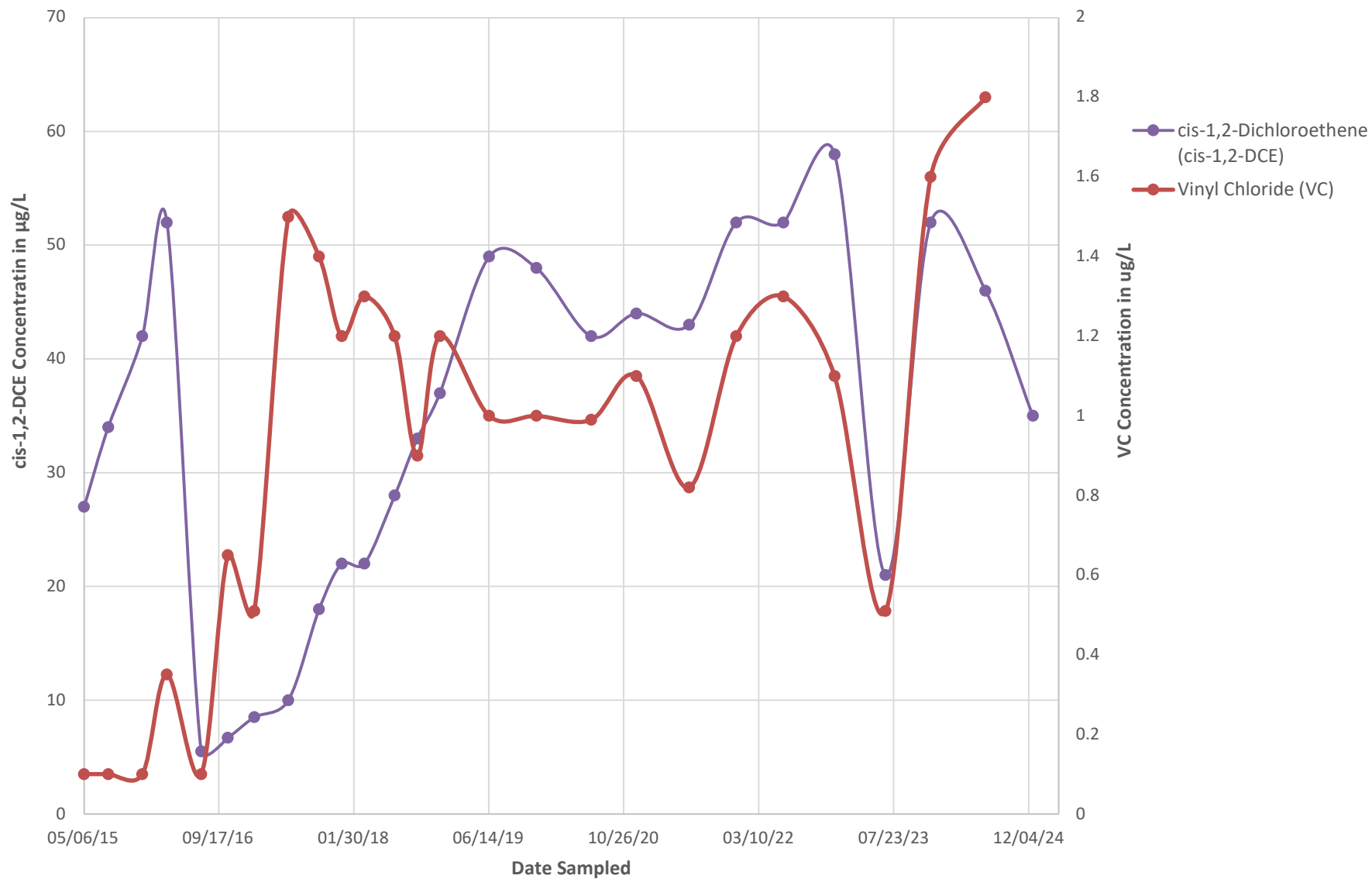


Chart L - MW24

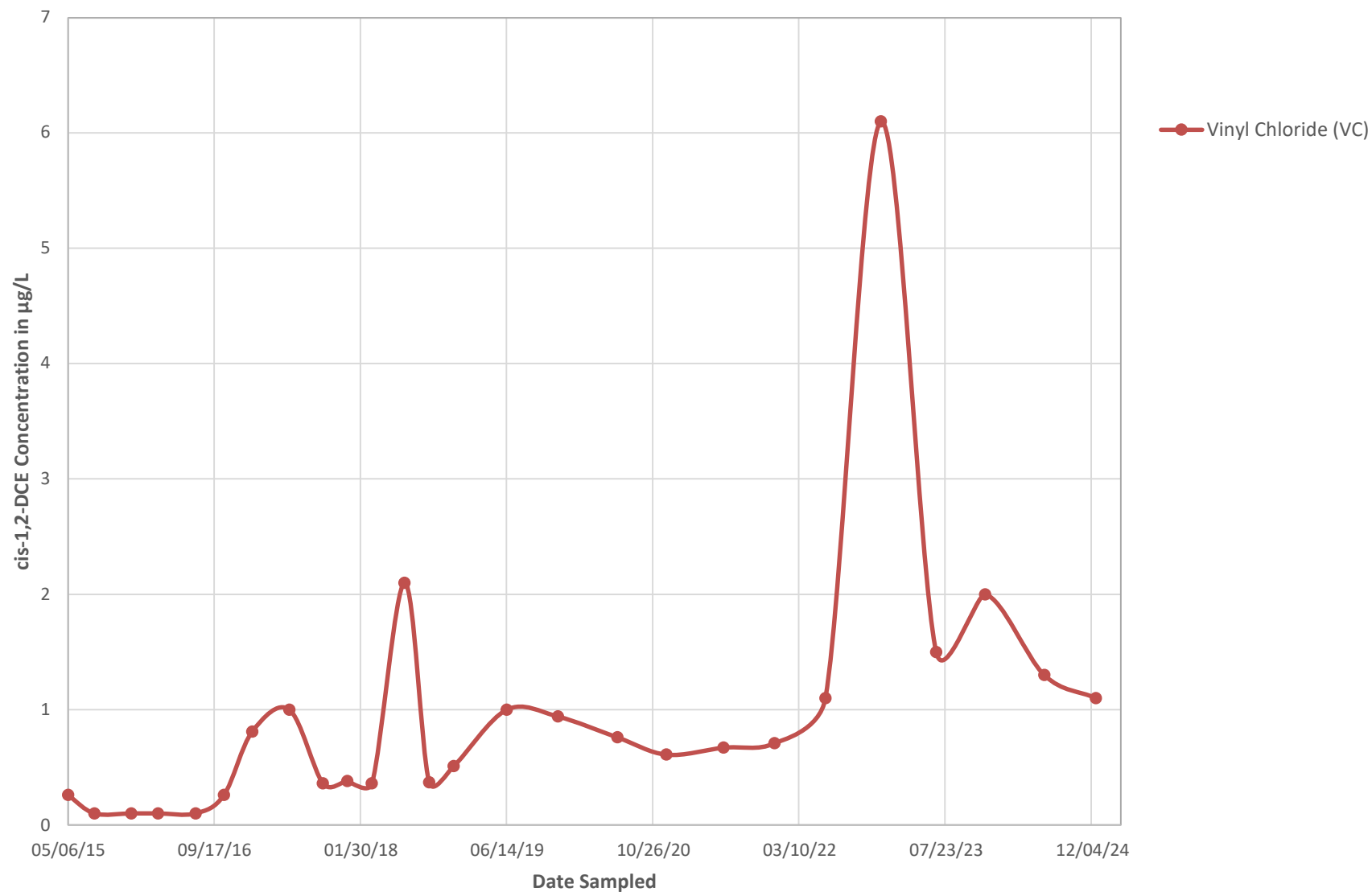


Chart M - MW04

